1. CAPACIDAD TÉCNICA Y EXPERIENCIA Y CONDICIONES DE PONDERACIÓN

1. FORMATO 4 EXPERIENCIA HABILITANTE. PAG 1-2
2. CERTIFICADOS DE EXPERIENCIA ECOPRADOS AMBIENTALES SAS. PAG 3-10
3. COPIA DEL TÍTULO PROFESIONAL Y/O ACTA DE GRADO. PAG 11-12
4. COPIA DE LA TARJETA Y/O MATRÍCULA PROFESIONAL. PAG 13.
5. CARTA DE INTENCIÓN. PAG 14
6. CERTIFICACIONES DE EXPERIENCIA. PAG 15-41
7. ANEXO 1 – FICHA DE CONDICIONES TÉCNICAS ESENCIALES. PAG 42
8. CALIFICACIÓN VALOR AGREGADO 1 – MAQUINARIA. PAG 43-210
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FORMATO No. 4
EXPERIENCIA HABILITANTE

No. de Contrato	Entidad	Objeto del Contrato	Valor	Fecha de suscripción	Fecha de Terminación
002 de 2022	Consorcio Natanael	Actividades de mantenimiento con acciones de restauración ecológica, construcción y mantenimiento de muros verdes y jardinería en el espacio público de la ciudad de Bogotá, incluye actividades de 1. Mantenimiento de restauración, rehabilitación o recuperación ecológica, 2 construcción y mantenimiento de muros verdes, incluido el suministro de material vegetal y todos los insumos requeridos para realizar dicha actividad	$.1.000.000.000	5 de diciembre de 2022	15 de julio de 2023
001 DE 2021	Fundación ECODES	Contratar por el sistema de precios globales fijos sin formula de ajuste a monto agotable “La plantación de 1010 árboles bajo criterio de arbolado urbano y 2203 árboles bajo criterio de restauración ecológica en la ciudad de Bogotá D.C., en la Localidad de Bosa	$230.435.000	28 de febrero de 2022	13 de abril de 2022
001 de 2019	IMPECOS SAS	prestación de servicios integrales de jardinería y paisajismo, en la ciudad de Bogotá el Colegio Bicentenario de la Alcaldía Local de Bosa	$240.000.000	1 julio de 2019	31 de marzo de 2020
4233000-1237-2024	Secretaría General de la Alcaldía Mayor de Bogotá, D.C	Contratar el servicio para realizar el manejo silvicultural para los individuos arbóreos existentes en las once (11) de las sedes de la Secretaría General de la Alcaldía Mayor de Bogotá que incluya actividades de	$40,637,273	9 de octubre de 2024	31 de diciembre de 2024.

		atención de riesgo y tratamientos especializados requeridos.			
CO1.PCCNTR.7087874	CENTRO DE TECNOLOGÍAS PARA LA CONSTRUCCIÓN Y LA MADERA DEL SERVICIO NACIONAL DE APRENDIZAJE SENA	Contratar Los Servicios De Mantenimiento Para La Poda Y Tala De Árboles Del Centro De Tecnologías Para La Construcción Y La Madera.	$29.973.328,4	5 de diciembre de 2024	19 de diciembre de 2024



FIRMA DEL OFERENTE
No. 423972 de Topaipí

CONFIDENCI

Consorcio Natanael

Nit. 901.630.250-6

EL SUSCRITO REPRESENTANTE LEGAL DE
CONSORCIO NATANAEL
NIT. 901.630.250-6

CERTIFICA

Que CONSORCIO NATANAEL. identificado con NIT. 901.630.250-6, representada legalmente por RAFAEL EDUARDO MEJIA CERCHIARO, suscribió el contrato, con la empresa ECOPRADOS AMBIENTALES S.A.S. identificada con NIT. 901.621.427-4, representada legalmente por LUIS FRANCISCO MORENO SANDOVAL, con cedula de ciudadania No. 423972 de Topaipi, Cundinamarca.

- **Contrato No. No. 002 de 2023,**

Objeto: "Contrato de mano de obra para desarrollar las actividades de mantenimiento con acciones de restauración ecológica, construcción y mantenimiento de muros verdes y jardinería en el espacio público de la ciudad de Bogotá. Incluye actividades de: 1. Mantenimiento de restauración, rehabilitación o recuperación ecológica. 2. Construcción y mantenimiento de muros verdes, incluido el suministro de material vegetal y todos los insumos requeridos para realizar dicha actividad, utilizando para ello los recursos idóneos y desplegando las actividades y diligencias necesarias de manera diligente, eficaz, racional, segura y en estricta observancia de las normas legales.

Valor del Contrato: Mil Millones de Pesos ($1.000'000.000)

Fecha de Inicio: Cinco (5) de diciembre de 2022

Fecha de terminación: Quince (15) de julio de 2023

Tiempo total: Siete (7) meses y diez (10) días

La presente certificación se expide a solicitud del interesado en la ciudad de Bogotá, a los catorce (14) días del mes de junio de 2024

Atentamente,

RAFAEL EDUARDO MEJIA CERCHIARO
Representante Legal
CONSORCIO NATANAEL

Carrera 18 # 118 – 08, B. Santa Barbara - Bogotá, D.C.
Teléfono: 601 7020454

Powered by CamScanner

ECOPRADOS AMBIENTALES SAS

Enverdeciendo espacios

NIT 901621427-4
Régimen Responsable del impuesto sobre las ventas –IVA
Resolución DIAN N° 18764037859950
Fecha 13/10/2022 - 13/10/2023
Autorización de Facturación Electrónica del FEEC1 al FEEC1000
Email: ecopradosambientales@gmail.com
Teléfono: 6012178048

Departamento	Fecha		
Bogotá	25	05	2023

FACTURA ELECTRÓNICA DE VENTA

N° FEEC21

Cliente:	CONSORCIO NATANAEL	**NIT:**	901630250	**Fecha de firmado:**	25/05/2023 10:43:39
Dirección:	CR 18 118 08	**Departamento:**	Bogotá	**Teléfono:**	7020454
Email:	cidmagbogota@gmail.com	**Forma de Pago:**	Crédito	**Medio de pago:**	Transferencia Débito Bancaria
Vencimiento:	Mayo 25 del 2023	**Hora emisión:**	15:43:37-05:00	**Moneda:**	COP Colombia, Pesos
Fecha de pago:	25/05/2023				
Total de Lineas:	1				

#	CÓDIGO	CANT	DESCRIPCIÓN	U. M.	IMPUESTOS			VR UNIT.	TOTAL
					NOM.	% o VAL	MONTO		
1	ECO045	100,00	INSTALACIÒN MUROS VERDES	MTK	IVA	19%	4341120	$228.480,00	$22.848.000,00

Notas:

SON: (veintisiete millones ciento ochenta y nueve mil ciento veinte pesos)
CUFE: 4f9c748deac95a7e7369631f356a608e6d737f26858446c169d2fe48a39551c6978eda1f390b8f247e9b915f5b3f9257

Subtotal:	$22.848.000,00
Cargos:	$0.00
Descuento:	$0.00
IVA:	$4.341.120,00
Total:	$27.189.120,00

IMPUESTO	BASE	TARIFA / VALOR NOMINAL	IMPORTE
IMPUESTOS			
01 IVA	$22.848.000,00	19,00%	$4.341.120,00

Por Favor consignar en la cuenta corriente 086382850 del Banco de Bogota a nombre de Ecoprados Ambientales SAS NIt 901.621.427-4.

Firma Digital: E1QaptjNdpC8FRjSXNHu+X0K6JmLe8iN8Hvk7vgVKVCUnP9QE0wzFtptzx17/1x9
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xQ==

Esta factura es un título valor de acuerdo al art. 774 del C.C. y una vez aceptada declara haber recibido los bienes y servicios a satisfacción.

Representación Gráfica de la Factura de Venta Electrónica.

Software: e-Factura Proveedor tecnológico: cadena. NIt 830.959.134-0

PLATAFORMA: Facturatech Nit. 901.143.311-8

facturatech

FUNDACIÓN ECODES

NIT. 900.359.095-6

LA SUSCRITA REPRESENTANTE LEGAL DE FUNDACIÓN ECODES

CERTIFICA

Que el señor Luis Francisco Moreno identificado con Nit. 822.000.772-1, obró como contratista y ejecutó a satisfacción el siguiente contrato:

CONTRATO DE OBRA N°001 DE 2021

Objeto:	Contratar por el sistema de precios globales fijos sin formula de ajuste a monto agotable "La plantación de 1010 árboles bajo criterio de arbolado urbano y 2203 árboles bajo criterio de restauración ecológica en la ciudad de Bogotá D.C., en la Localidad de Bosa.
Fecha de inicio:	Febrero 28 de 2022
Fecha de terminación:	Abril 13 de 2022
Valor del Contrato:	Doscientos treinta millones cuatrocientos treinta y cinco mil pesos m/cte ($ 230.435.000).

La presente certificación se expide de acuerdo a la información que reposa en el archivo del contrato en constancia se firma hoy a los treinta (30) días del mes de Agosto de 2024.

Cordialmente,

Leidy Cristancho Márquez
Representante Legal Fundación Ecodes

AV CLL 43 SUR Nº 82 C 07 Tel: 312-4526900
ecodesfundacion@gmail.com

ECOPRADOS AMBIENTALES SAS

Enverdeciendo espacios

NIT 901621427-4
Régimen Responsable del impuesto sobre las ventas –IVA
Resolución DIAN N° 18764057882891
Fecha 12/10/2023 - 12/10/2024
Autorización de Facturación Electrónica del FEEC29 al FEEC1000
Email: ecopradosambientales@gmail.com
Teléfono: 6012178048

Departamento	Fecha		
Bogotá	08	11	2023

FACTURA ELECTRÓNICA DE VENTA

N° FEEC29

Cliente:	FUNDACION ECODES	**NIT:**	900359095	**Fecha de firmado:**	08/11/2023 10:18:32
Dirección:	AC 43 SUR 82 C 07	**Departamento:**	Bogotá	**Teléfono:**	7433724
Email:	facturacion1823@gmail.com	**Forma de Pago:**	Crédito	**Medio de pago:**	Transferencia Débito Bancaria
Vencimiento:	Noviembre 10 del 2023	**Hora emisión:**	15:18:30-05:00	**Moneda:**	COP Colombia, Pesos
Fecha de pago:	10/11/2023				

Total de Lineas: 1

#	CÓDIGO	CANT	DESCRIPCIÓN	U. M.	IMPUESTOS			VR UNIT.	TOTAL
					NOM.	% o VAL	MONTO		
1	ECO004	100,00	APERTURA DE HUECOS 1 M X 1 M INCLUYE RETIRO DE ESCOMBROS Y COLOCACIÓN DE TIERRA NEGRA CON CASCARILLA	WSD	IVA	19%	2315126.06	$121.848,74	$12.184.874,00

Notas:

SON: (catorce millones quinientos mil pesos seis centavos)
CUFE: cfd02fd90f71cf8048ca0c62d7297032b99b05d1c825e5908f56f343fcebd91968b84bfd2e121b827d91c628a36323ea

Subtotal:	$12.184.874,00
Cargos:	$0.00
Descuento:	$0.00
IVA:	$2.315.126,06
Total:	$14.500.000,06
ReteRenta:	$487.394,96
ReteICA:	$117.705,88
Neto Factura:	$13.894.899,22

IMPUESTO	BASE	TARIFA / VALOR NOMINAL	IMPORTE
IMPUESTOS			
01 IVA	$12.184.874,00	19,00%	$2.315.126,06
RETENCIONES			
06 ReteRenta	$12.184.874,00	4%	$487.394,96
07 ReteICA	$12.184.874,00	0.966%	$117.705,88

Por Favor consignar en la cuenta corriente 086382850 del Banco de Bogota a nombre de Ecoprados Ambientales SAS NIt 901.621.427-4.

Firma Digital: gDSYcA8tO290Buc3kQLhWL8VmId3H/jP7xNhX6G9ndoZBVGaE1TMzYeFV3zc+vyb
5JxItKNXScQ26x0ZcXBbC5d/hHg3nK0bDagxRuJffdGlxpT8IS
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Rmb0c9kEriLJK+SEVcDwVE+FK6Eyo LBcPVwPlXyf+gB+3ftfVHuMn5lYOoRgBG4oM4M2km/t0We/87KZtHrDRrZ05M2KS VgtK1pf5piti8PfC2lE0
Jw==

Esta factura es un título valor de acuerdo al art. 774 del C.C. y una vez aceptada declara haber recibido los bienes y servicios a satisfacción.

Representación Gráfica de la Factura de Venta Electrónica.

NIT 901039835-0

LA SUSCRITA REPRESENTANTE LEGAL DE IMPECOS SAS

CERTIFICA:

Que el señor Luis Francisco Moreno identificado con Cédula de Ciudadanía 423972 de Topaipí, obró como contratista y ejecutó a satisfacción el siguiente contrato:
CONTRATO DE PRESTACIÓN DE SERVICIOS No. 001 de 2019

Objeto: prestación de servicios integrales de jardinería y paisajismo, en la ciudad de Bogotá el Colegio Bicentenario de la Alcaldía Local de Bosa

Principales actividades:

- Retiro de material vegetal existente en el área designada.
- Preparación del terreno mediante ahoyado de metro 1x1 en los puntos de plantación.
- Retiro y disposición adecuada de escombros y residuos presentes en el área.
- Suministro y esparcimiento de tierra negra abonada de alta calidad.
- Plantación de árboles de las especies y tamaños previamente acordados.
- Suministro e instalación de tutores para el soporte de los árboles recién plantados.
- Aplicación de fertilizantes adecuados para el óptimo desarrollo de la vegetación.
- Tala controlada de árboles de más de 15 metros de altura, siguiendo las normativas de seguridad.
- Recogida, clasificación y traslado de todos los residuos generados durante las labores a un sitio de disposición autorizado.

Fecha de inicio: 1 julio de 2019
Fecha de terminación: 31 de marzo de 2020

Valor del Contrato: Doscientos cuarenta millones de pesos m/cte ($ 240.000.000).

La presente certificación se expide de acuerdo con la información que reposa en el archivo del contrato en constancia se firma hoy a los doce (12) días del mes de marzo de 2025.

Cordialmente,

Laura Noelia Baldion A.

Laura Noelia Baldion Angulo
Representante Legal IMPECOS SAS
c.c: 1012441945
Calle 18 N° 6-47 | Tel: 310-5169154 | correo: impecosas@gmail.com

BOGOTÁ

Dirección de Contratación de la
Secretaría General de la Alcaldía Mayor de Bogotá, D.C

C E R T I F I C A C I Ó N D E C O N T R A T O

La suscrita Directora de Contratación de la Secretaría General de la Alcaldía Mayor de Bogotá con NIT 899.999.061-9, D.C., certifica que, **ECOPRADOS AMBIENTALES SAS** identificada con **NIT 901621427** suscribió con la Secretaría General de la Alcaldía Mayor de Bogotá D.C. el contrato de prestación de servicios que se detalla a continuación:

1. CONTRATO DE PRESTACION DE SERVICIOS No 4233000-1237-2024

OBJETO: Contratar el servicio para realizar el manejo silvicultural para los individuos arbóreos existentes en las once (11) de las sedes de la Secretaría General de la Alcaldía Mayor de Bogotá que incluya actividades de atención de riesgo y tratamientos especializados requeridos.

OBLIGACIONES ESPECÍFICAS DEL CONTRATISTA:

1. Cumplir con las especificaciones técnicas establecidas en el presente anexo técnico, los estudios previos, invitación publica y el contrato. 2. Elaborar y enviar al supervisor del contrato o a quien este designe, el cronograma de trabajo así mismo, dar cumplimiento al cronograma de acuerdo al objeto del contrato. 3. Suministrar al supervisor o a quien este designe, cuando éste lo solicite, informes sobre cualquier aspecto relacionado con el objeto del contrato. De igual manera, entregar al finalizar el contrato, un informe de cierre sobre las actividades ejecutadas adjuntando los debidos soportes. 4. Ejecutar las actividades de poda y/o tala o cualquier otro tratamiento silvicultural, con mano de obra y personal idóneos con los equipos necesarios, señales verticales, señales horizontales, ayudas visuales para la demarcación del área de trabajo. Así mismo, El CONTRATISTA deberá aportar todas las herramientas e implementos mecánicos, para la ejecución del contrato, aplicando técnicas que impidan el daño a terceros. Así mismo, reparar a su costa todos los daños causados a la infraestructura adyacentes que le sean imputables. 5. Ejecutar los trámites administrativos antes las autoridades ambientales para obtención de permiso de aprovechamiento forestal, para esto el Contratista deberá elaborar la documentación que se requiera. 6. Realizar la limpieza del área intervenida al finalizar la jornada, así mismo, establecer con el supervisor los sitios de acopio de sobrantes, de tal manera que no interfieran con las actividades de las Sedes de la Secretaría General, ni el espacio público. 7. Serán por cuenta del CONTRATISTA el suministro de elementos de seguridad para su personal como cascos, guantes, anteojos, calzado, cinturones y cualquier otro elemento necesario que la supervisión y las normas de seguridad industrial y salud ocupacional exijan y el uso será obligatorio. Así mismo, los elementos para trabajo en alturas, así como las certificaciones del curso de trabajo en alturas. De igual manera, El CONTRATISTA cumplirá todas las normas referentes a seguridad laboral que

contempla la Ley Colombiana. Será condición para control de personal un carné de identificación del personal del CONTRATISTA.

VALOR TOTAL EJECUTADO: Cuarenta millones seiscientos treinta y siete mil doscientos setenta y tres pesos m/cte. ($40,637,273.00)
FECHA DE SUSCRIPCIÓN: Nueve (09) de octubre de 2024.
FECHA DE INICIO: Veinticinco (25) de octubre de 2024.
FECHA DE TERMINACIÓN: Treinta y uno (31) de diciembre de 2024.

Se expide en Bogotá, D.C. a los veintidós (22) días del mes de enero de 2025.

MORENO GARZON EDNA CATALINA

Firmado digitalmente por MORENO GARZON EDNA CATALINA
Fecha: 2025.01.23 22:00:02 -05'00'

EDNA CATALINA MORENO GARZÓN
Directora de Contratación

Proyectó: Carlos Adriano Martínez Ortiz

TVD-00078

NIT 899.999.034-1

EL SUSCRITO SUBDIRECTOR DEL CENTRO DE TECNOLOGÍAS PARA LA CONSTRUCCIÓN Y LA MADERA DEL SERVICIO NACIONAL DE APRENDIZAJE SENA

HACE CONSTAR

Que la empresa **ECOPRADOS AMBIENTALES SAS,** identificada con Nit. No. 901621427, suscribió el contrato que se relaciona a continuación:

Número y Fecha del Contrato: No. CO1.PCCNTR.7087874 de 29 de noviembre de 2024

Contratante: **CENTRO DE TECNOLOGÍAS PARA LA CONSTRUCCIÓN Y LA MADERA**

Objeto: Contratar Los Servicios De Mantenimiento Para La Poda Y Tala De Árboles Del Centro De Tecnologías Para La Construcción Y La Madera.

Plazo: 5 (Días)- Tomado de SECOP II

Valor del Contrato (Valor Pesos): 29.973.328,4 COP

Fecha de Inicio del Contrato (d/m/a): 5 de diciembre de 2024

Tiempo adicionado: 2 (Días)- Tomado de SECOP II

Fecha Final del Contrato (d/m/a): 19 de diciembre de 2024

Se expide a solicitud del interesado(a), de acuerdo con la información registrada en el Sistema Electrónico de Contratación Pública SECOP II de la Entidad SENA, a los 2 días del mes de abril de 2025

Firmado digitalmente por William Dario Riaño Baron
Fecha: 2025.04.02 12:42:43 -05'00'

WILLIAM DARÍO RIAÑO BARÓN
Subdirector
Centro Tecnologías para la Construcción y la Madera
Servicio Nacional de Aprendizaje SENA

Vo. Bo: Diana Paola Zaque Fernández,
Cargo: Coordinadora del Grupo de Apoyo Administrativo Intercentros-Cazucá.

Proyecto: Olga Lucia Rojas Baquero
Cargo: Apoyo Administrativo contratación Grupo Administrativo Intercentros Cazucá

/ 48

Graciela Garzón Marin

con cédula de ciudadanía No. 52.487.146 expedida en Bogotá, D.C.
aprobó satisfactoriamente el Plan de Estudios correspondiente
y cumplió con las condiciones académicas requeridas,
le confiere el título de

Ingeniera Forestal

En testimonio de lo anterior se firma en Bogotá, D.C.
a los 29 días del mes de Octubre del año 2004

UNIVERSIDAD DISTRITAL FRANCISCO JOSE DE CALDAS

ACTA DE GRADO No FMA 2388

LA SUSCRITA SECRETARIA ACADEMICA DE LA FACULTAD DEL MEDIO AMBIENTE Y RECURSOS NATURALES DE LA UNIVERSIDAD DISTRITAL FRANCISCO JOSE DE CALDAS, COMPULSA A CONTINUACION EL ACTA DE GRADO DE:

GRACIELA GARZÓN MARÍN

En Bogotá D.C., a los 29 días del mes de Octubre de 2004, se efectuó en el Auditorio de la Sede Macarena "A" de la Universidad Distrital, el acto solemne de grado, de la Señorita GRACIELA GARZON MARIN identificada con la Cedula de Ciudadanía No 52487146 de Santafé de Bogotá D.C. quien terminó sus estudios de acuerdo a los pensumes y reglamentos de la Universidad y presentó el Trabajo de Grado titulado:

"USO DE ASERRÍN Y ACÍCULAS COMO SUSTRATO DE GERMINACIÓN Y CRECIMIENTO DE QUERCUS HUMBOLDTII (ROBLE)."

Del cual fue director el (la) **Biólogo FAVIO LÓPEZ BOTÍA**

Según Acta No FMA. 2388 el Trabajo mereció el carácter de **APROBADO** con una calificación de 4.5

Acto seguido el Señor Rector de la Universidad Distrital, tomó juramento de rigor y le confirió el título de INGENIERA FORESTAL y dispuso la entrega inmediata del Acta del presente Grado y la del Diploma que acredita el correspondiente título Universitario.

JULIA EMMA ZALDUA BARRANTES
SECRETARIA ACADEMICA
FACULTAD DEL MEDIO AMBIENTE Y RECURSOS NATURALES
Registro del Diploma No 2306

En nombre de la República de Colombia
y por autorización del Ministerio de Educación Nacional

La Universidad Distrital Francisco José de Caldas

Con personería jurídica reconocida por el Ministerio de Justicia mediante resolución No. 139 de 1950, en cumplimiento del Decreto Presidencial 0844 de 1999 y la Resolución 1017 de 1996 del ICFES

en atención a que

Graciela Garzón Marin

con cédula de ciudadanía No. 52.487.146 expedida en Stafe de Bogotá, D.C.
aprobó satisfactoriamente el Plan de Estudios correspondiente
y cumplió con las condiciones académicas requeridas,
le confiere el título de

Ingeniera Forestal

En testimonio de lo anterior se firma en Bogotá, D.C.
a los 29 días del mes de Octubre del año 2004

Rector

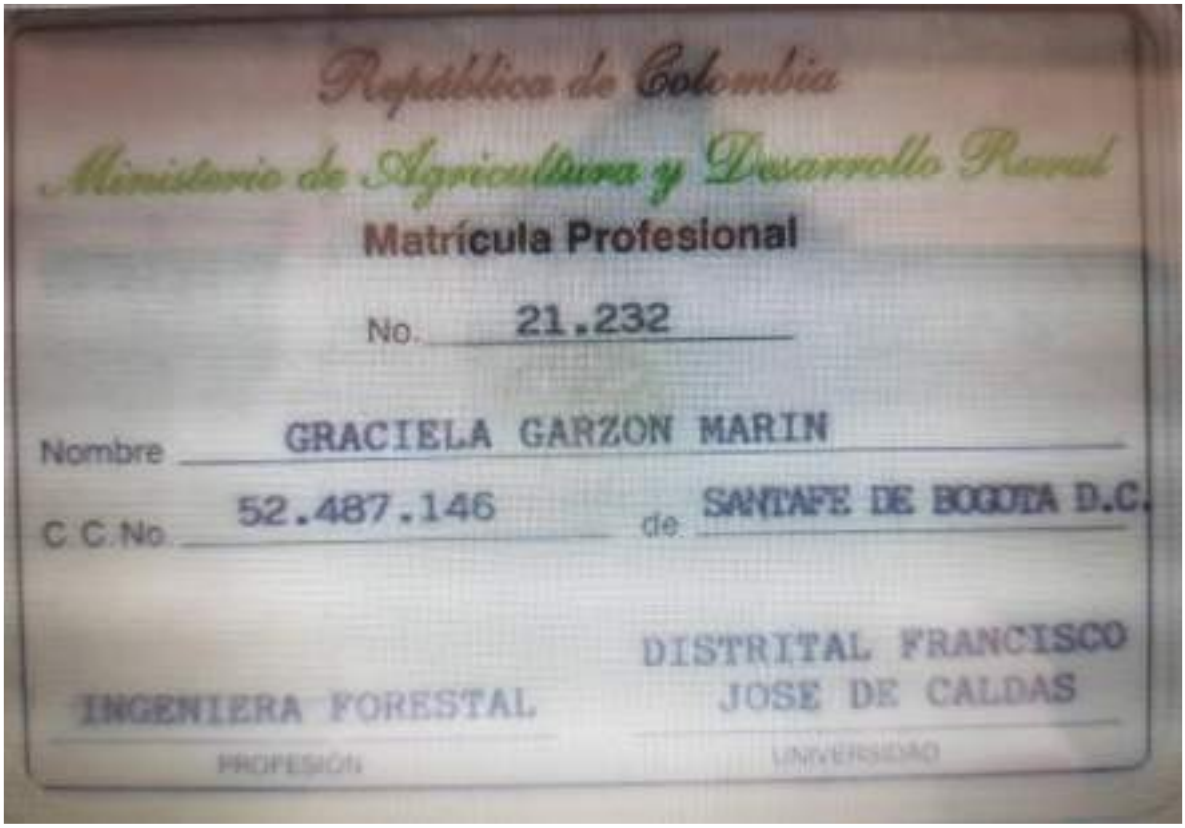
Sec. General

Decano

Secretario Académico

Registro No. FMA 2388

Diploma No. 4695



República de Colombia

Ministerio de Agricultura y Desarrollo Rural

Matrícula Profesional

No. 21.232

Nombre GRACIELA GARZON MARIN

C.C.No. 52.487.146 de SANTAFE DE BOGOTA D.C.

INGENIERA FORESTAL
PROFESION

DISTRITAL FRANCISCO JOSE DE CALDAS
UNIVERSIDAD

Bogotá D.C., 24 de abril de 2026

Señores

AGUAS DE BOGOTÁ

Ciudad

Asunto: Aceptación invitación pública IPP No 30 de 2026

Saludo cordial,

Teniendo en cuenta el objeto de contratar actvidades de manejo silvicultural y complementarias requeridas por Aguas de Bogotá S.A. E.S.P., desde Ecoprados y como profesional aceptamos las condiciones postuladas y se informa la disponibilidad para apoyar el proceso.

Aceptando el cargo de la invitación pública como DIRECTOR PROYECTO- INGENIERO FORESTAL (CUADRILLAS MANTENIMIENTO), con una dedicación del 100% del proyecto que tiene por objeto "**CONTRATAR ACTIVIDADES DE MANEJO SILVICULTURAL Y COMPLEMENTARIAS REQUERIDAS POR AGUAS DE BOGOTÁ S.A. E.S.P**".

Atentamente,



Ing Graciela Garzón Marín

Cc 52487146

TP 21232

CIDMAG
CORPORACIÓN PARA IMPULSAR EL DESARROLLO AMBIENTAL

CORPORACION PARA IMPULSAR EL DESARROLLO AMBIENTAL – CIDMAG
Nit. 900.077.157-3

CERTIFICA:

Que la Ingeniera **GRACIELA GARZON MARIN**, identificada con cedula de ciudadania No. **52.487.146 de Bogotá**, presto sus servicios como **DIRECTORA DE PROYECTOS**, en el marco del contrato 027- 2021, desde el 11 de febrero de 2021, hasta el 15 de enero de 2023.

La presente certificación se expide a solicitud del interesado a los veinte (20) días del mes de enero de 2023.

Cordialmente,

RAFAEL EDUARDO MEJIA CERCHIARO
Representante Legal
-CIDMAG-
NIT. 900.077.157-3

CNP
CENTRO NACIONAL DE PROYECTOS
NIT 900413014 - 0

República de Colombia

La Representante Legal del
CENTRO NACIONAL DE PROYECTOS CNP S.A.S.,
con NIT No.900413014-0

CERTIFICA QUE:

La señora **GRACIELA GARZÓN MARIN** identificada con la cédula de ciudadanía No. 52.487.146 expedida en la ciudad de Bogotá, prestó sus servicios profesionales como **DIRECTORA DE INTERVENTORIA** para la ejecución del contrato JBB-CTO- 425 DE 2020 cuyo objeto fue "REALIZAR LA INTERVENTORÍA TÉCNICA, ADMINISTRATIVA, FINANCIERA, CONTABLE Y JURÍDICA AL CONTRATO CUYO OBJETO CONSISTE EN DESARROLLAR LAS ACTIVIDADES DE PLANTACIÓN Y MANTENIMIENTO DE ÁRBOLES Y ARBUSTOS EN EL ESPACIO PÚBLICO DE BOGOTÁ D.C. - LOTE 1. JBBJCM - CNP" bajo contrato de prestación de servicios No.015 de 2020 desde el día 30 de julio del año 2020 hasta el día 29 de diciembre de 2021

La profesional demostró responsabilidad y compromiso en el cumplimiento a cabalidad de las obligaciones asignadas.

Dado en Barranquilla a los veintiocho (28) días del mes de enero de 2022.

Cordialmente,

NILSA BEATRIZ ADACHI CORRAL
Representante Legal

LA COORDINADORA DE TALENTO HUMANO DE LA EMPRESA BIOLODOS SA ESP
NIT 830.123.158-4

CERTIFICA

Que la señora GRACIELA GARZON MARIN identificada con la cédula de ciudadanía No 52.487.146, prestó sus servicios profesionales apoyando el desarrollo y ejecución para la elaboración del componente biótico (Fauna y Flora) del proyecto adelantado por la empresa BIOLODOS S.A E.S.P., ejecutado entre el mes de junio del 2015 hasta septiembre del 2015. Con un contrato por prestación de servicios.

Se expide a solicitud del interesado el día 15 de julio de 2022.



LAURA MARCELA PIÑEROS PARDO
Coordinadora de Talento Humano



Instituto SINCHI

ACTA DE LIQUIDACIÓN DEL CONTRATO No. 46 DE 2012

Con el objeto de liquidar el contrato No. 46 de 2012, **ROSARIO PIÑERES VERGARA**, identificada con la cédula de ciudadanía No. 41'725.340 de Bogotá D.C., quien obra por delegación que le hiciera la Directora General del Instituto mediante la Resolución No. 018 del 23 de abril de 1997 para liquidar contratos a nombre del **INSTITUTO AMAZÓNICO DE INVESTIGACIONES CIENTÍFICAS "SINCHI"** y **GRACIELA GARZON MARIN**, identificada con cédula de ciudadanía No. 52.487.146 expedida en Bogotá D.C., suscriben la presente Acta.

OBJETO: La contratista se obliga para con el Instituto Amazónico de Investigaciones Científicas "Sinchi", a prestar sus servicios profesionales para realizar actividades de apoyo a la coordinación del proyecto en cuanto a la realización del estado del arte, la caracterización y diagnóstico, la zonificación y propuesta de ordenamiento del territorio de la reserva forestal de la Amazonia en el Departamento de Amazonas, sector del Trapecio Sur, de acuerdo con lo establecido en el plan operativo y de inversión del contrato de subvención No. 018 de 2012

VALOR: El valor del contrato fue de **TREINTA Y DOS MILLONES QUINIENTOS ONCE MIL TRECIENTOS SESENTA PESOSM/CTE ($32.511.360)**

FORMA DE PAGO: Se acordaron cinco (5) pagos cada uno por un valor de **SEIS MILLONES QUINIENTOS DOS MIL DOSCIENTOS SETENTA Y DOS PESOS ($ 6.502.272)**, contra entrega de cada uno de los productos, y certificación de cumplimiento expedida por el Supervisor del contrato

TÉRMINO: El plazo de ejecución se pacto inicialmente del 19 de julio de 2012 al 28 de febrero de 2013, termino que fue ampliado mediante adicion No. 1 del 25 de febrero de 2013 hasta el 30 de abril de 2013.

EJECUCIÓN DEL CONTRATO: En certificación expedida por el Supervisor del contrato, **Uriel Gonzalo Murcia**, refrendó que el contratista cumplió a cabalidad con el objeto del contrato.

Instituto SINCHI

PAGOS: La firma de esta acta de liquidación es requisito indispensable para el último pago que corresponde a la suma de **SEIS MILLONES QUINIENTOS DOS MIL DOSCIENTOS SETENTA Y DOS PESOS ($ 6.502.272)**

Las partes intervinientes suscriben en señal de conformidad, la presente acta de liquidación, dejando claramente establecido que se encuentran a Paz y Salvo.

Para constancia se firma el 29 AGO. 2013

ROSARIO PIÑERES VERGARA
Subdirectora Administrativa y Financiera

GRACIELA GARZON MARIN
Contratista

Elaboró: IR
Revisó: RPL

Instituto amazónico de investigaciones científicas SINCHI

Ministerio de Ambiente y Desarrollo Sostenible
República de Colombia

Libertad y Orden

LA SUSCRITA SUBDIRECTORA ADMINISTRATIVA Y FINANCIERA DEL INSTITUTO AMAZÓNICO DE INVESTIGACIONES CIENTÍFICAS SINCHI

CERTIFICA

Que **GRACIELA GARZON MARIN**, identificada con cédula de ciudadanía No. 52.487.146 expedida en Bogotá suscribió como Contratista el contrato relacionado a continuación:

- **Contrato No. 046 de 2012**

OBJETO.- La contratista se obliga para con el Instituto Amazónico de Investigaciones Científicas "Sinchi", a prestar sus servicios profesionales para realizar actividades de apoyo a la coordinación del proyecto en cuanto a la realización del estado del arte, la caracterización y diagnóstico, la zonificación y propuesta de ordenamiento del territorio de la reserva forestal de la Amazonia en el Departamento de Amazonas, sector del Trapecio Sur, de acuerdo con lo establecido en el plan operativo y de inversión del contrato de subvención No. 018 de 2012.

En ejecución del objeto contratado, la contratista se comprometió a realizar las siguientes actividades:

a) Entregar antes de los 8 días después de firmado el contrato, un plan de trabajo, que sea acordarlo con el supervisor, le cual hará parte del contrato, según formatos del proyecto, b) En coordinación con el director del proyecto realizar las siguientes acciones: i) Velar por el cumplimiento del Plan Operativo del proyecto, que ya está aprobado por el Comité Técnico Operativo; ii) Apoyar la formulación de los términos de referencia para la contratación de los profesionales del equipo técnico; iii) Adelantar las acciones con el resto del equipo técnico para aplicar la metodología para hacer cada una de las fases del proyecto; iv) Diseñar, aplicar y evaluar los instrumentos para hacer el seguimiento al desarrollo adecuado del proyecto, v) Diseñar, aplicar y evaluar mecanismos participativos que involucren a los actores sociales en las cuatro fases o etapas previstas para el proyecto, c)De manera conjunta con el Coordinador del proyecto hacer la coordinación y supervisión técnica de todos los profesionales, y sus contratos, que conforman el equipo

técnico, de tal manera que los informes técnicos sean entregados cumpliendo el cronograma previsto, d) Revisar y hacer observaciones de los informes técnicos de cada uno de los profesionales del proyecto y reportarle al coordinador del proyecto. Se debe generar la certificación de cumplimiento, según formato del Instituto Sinchi, e) Coordinar, preparar, convocar, apoyar y participar en la realización y evaluación de los talleres y reuniones que sean programadas para cumplir con el objeto del contrato de subvención (SINCHI-SGCAN), f) Orientar, bajo la supervisión del Coordinador del proyecto, los procesos de estado del arte, caracterización y diagnóstico, la zonificación ambiental y la propuesta de ordenamiento, en cuanto a criterios, metodología, modelación de información y resultados, g) Elaborar junto con el equipo técnico los siguientes documentos: el estado del arte, caracterización y diagnóstico ambiental, la zonificación ambiental, la propuesta de ordenamiento, la propuesta técnico-jurídica de soporte al ordenamiento. Estos informes deben ser entregados al supervisor en los tiempos programados en el POA del proyecto; y documento de sistematización de la experiencia y lecciones aprendidas del proyecto, h) Preparar los informes de avance y final del proyecto, y someterlos para aprobación del coordinador del proyecto, siguiendo los lineamientos establecidos por el supervisor, el Ministerio de Ambiente y Desarrollo Sostenible y el líder temático de OT-BioCAN de la SGCAN. Dichos informes deben ser remitidos desde la dirección general del Instituto Sinchi al Ministerio, para desde allí se remitan a la SGCAN, i) Coordinar la convocatoria, participar y llevar actas de todas las reuniones del Comité técnico Operativo, y presentar los estados de avance del proyecto cuando sea requerido, j) Participar de las reuniones de seguimiento del proyecto que convoque BioCAN, k) Elaborar las presentaciones en powerpoint con los avances y resultado final del proyecto, l) Elaborar el documento técnico con los resultados de la propuesta de zonificación y ordenamiento de la reserva forestal en el departamento de Amazonas, sector del Trapecio Sur, incluyendo los aportes del componente jurídico y los determinantes ambientales, m) Participar en el trabajo de campo para la toma de información de la caracterización Biofísica, Socioeconómica, Cultural e institucional la Zona de Reserva Forestal de la Amazonia, en el departamento de Amazonas, sector del Trapecio Sur, n) Junto con el profesional social, coordinar, convocar y realizar los talleres y reuniones de socialización y concertación en las diferentes etapas del proyecto con los actores locales. Se deben llevar las actas y listas de asistencia, o) Incorporar procedimientos y mecanismos participativos y democráticos con los actores involucrados en las diferentes etapas de formulación del

Instituto amazónico de investigaciones científicas SINCHI

Ministerio de Ambiente y Desarrollo Sostenible
República de Colombia
Libertad y Orden

ordenamiento ambiental y su reglamentación que permitan establecer acuerdos y consensos (gobernanza) que prevengan conflictos territoriales, p) Sistematizar la experiencia y lecciones aprendidas del proyecto, según criterios que se acuerden con BioCAN, q) Las demás que tengan relación con el objeto del proyecto.

TÉRMINO.- El término para la ejecución de este contrato se estableció desde el 18 de julio de 2012 al 28 de febrero de 2013 (En Ejecución).

VALOR.- El valor total del presente contrato es de TREINTA Y DOS MILLONES QUINIENTOS ONCE MIL TRECIENTOS SESENTA PESOSM/CTE **($32.511.360),**

CUMPLIMIENTO.- El supervisor del contrato, el Investigador Uriel Murcia, expidió certificación en la que deja constancia que la contratista cumplió a cabalidad con el objeto del contrato y dentro de los términos establecidos en el mismo.

La presente certificación se expide a solicitud de la interesada, en Bogotá, D.C., a los veinticinco (25) días del mes de Octubre dos mil doce (2012).

ROSARIO PIÑERES VERGARA
Subdirectora Administrativa y Financiera

Elaboró: ME
Revisó: JJ

CORPORACION
Suna - Hisca

Bogotá D.C., 21 de octubre de 2021

CORPORACIÓN SUNA HISCA
NIT 800.084.673-9
HACE CONSTAR

Que **GRACIELA GARZÓN MARÍN**, identificada con cédula de ciudadanía 52.487.146 de Bogotá D.C, presto sus servicios profesionales con contrato de prestación de servicios profesionales independientes en el Convenio de Asociación nro. 001525 de 2014, suscrito entre la Secretaria Distrital de Ambiente – SDA y la Corporación Suna Hisca, como profesional Ingeniera Forestal. Especialista en Sistemas de Información Geográfica. Durante 6meses del 01 de marzo 2015 al 01 de julio 2015. Del 31 de agosto 2015 al 31 de octubre 2015. Valor Total del Contrato: TRECE MILLONES DE PESOS MONEDA CORRIENTE ($13.000.000.).

OBJETO: Planear, desarrollar y evaluar las jornadas de capacitación teórica al grupo de vigías del agua encaminadas a la generación de autorreflexiones y cuestionamientos que lleven a los vigías a empoderarse de su papel de líderes en las comunidades, a ser protectores de los derechos del ambiente, incrementar el sentido de pertenencia y convertirse en verdaderos multiplicadores del proceso conocedores de la realidad contextual del Distrito.

ACTIVIDADES: Planear, teórica y metodológicamente cada una de las sesiones a realizar, según las temáticas dadas. Sistematizar el proceso de formación de los vigías del agua en un documento que recopile el desarrollo de cada una de las sesiones, los logros e impactos conseguidos en el grupo.
RESULTADOS E INFORMES A ENTREGAR: 1. propuesta metodológica de formación teórica del grupo de vigías del agua. 2. planeación temática y metodológica de cada uno de los módulos. 3. Desarrollo y conclusiones de cada sesión. 4. Registro fotográfico. 5. Sistematización evaluación grupo de vigías. 6. Informe final con resultados e impacto del proceso de formación teórico.

Se expide a solicitud de la interesada

MARLENE SEQUERA
Administradora
Corporación Suna Hisca
e-mail. administracion@sunahisca.org

UNIVERSIDAD INDUSTRIAL DE SANTANDER
Nit:890201213-4, Ciudad Universitaria, Cr 27-Cll 9
AA 678 PBX:+ 576344000,+ 57(7)6351946
Bucaramanga, Santander, Colombia.
www.uis.edu.co

Bucaramanga, 11 de octubre de 2021 Certificado No. 17339

LA JEFA DE LA DIVISION DE GESTION DE TALENTO HUMANO

HACE CONSTAR

Que en el Sistema de Información Financiero se encuentra registrada la siguiente información de GRACIELA GARZON MARIN, identificado con CÉDULA DE CIUDADANÍA Nº 52,487,146:

- OPS N° 2013002426 Del 16 de mayo de 2013 al 30 de diciembre de 2013 para elaboración de la zonificación de la amenaza relativa por movimientos en masa, correspondientes al convenio 009 del 2013,firmado entre el servicio geológico colombiano y la universidad industrial de santander
- OPS N° 2014002893 Del 03 de octubre de 2014 al 30 de noviembre de 2014 para realizar la revision de los empalmes de 20 planchas de la tematica de cobertura de los bloques 4 y 5 y estructuracion de las 15 planchas de cobertura del bloque 14.

Se expide a solicitud del interesado.

Atento saludo,

OLGA PATRICIA CHACON ARIAS
Jefa Division de Gestion de Talento Humano

ALCALDÍA MAYOR DE BOGOTÁ D.C.
GOBIERNO, SEGURIDAD Y CONVIVENCIA
Alcaldía Local de Santa Fe

ACTA DE LIQUIDACIÓN DEL PRESTACION DE SERVICIOS 024 – 2011 CELEBRADO ENTRE EL FONDO DE DESARROLLO LOCAL DE SANTA FE Y GRACIELA GARZON MARIN

En Bogotá D.C., a los veintitrés (23) días del mes de agosto de 2012, se reunieron: El Doctor **CARLOS RODOLFO BORJA HERRERA**, en calidad de Alcalde Local, la Ingeniera **GRACIELA GARZON MARIN**, en calidad de Contratista y el Ingeniero **CESAR ORLANDO PINTO MORENO**, como apoyo a la supervisión, con el fin de Liquidar el Contrato No. 024-2011, suscrito entre el Fondo de Desarrollo Local de Santa Fe y GRACIELA GARZON MARIN, de conformidad con lo ordenado por los artículos 60 de la Ley 80 de 1993 y 11 de la Ley 1150 de 2007; liquidación que plasmamos de la siguiente forma:

1. Objeto del contrato

Apoyar a la administración local en la implementación de la gestión ambiental, que conlleve a cabal cumplimiento de la normatividad vigente, tendiente a la conservación y preservación de la calidad del aire, agua y suelo, en la Localidad, producto de las actividades comerciales, industriales y obras, que afecten la calidad de vida de sus habitantes y asesorar los temas ambientales PIGA – PAEERS que se adelantan en la Localidad.

2. Datos Generales del Contrato.

Fecha de suscripción:	14 de abril de 2011
Fecha de iniciación:	Abril 19 de 2011
Término inicial de ejecución:	10 meses
Prorroga 1:	Un (1) mes
Prorroga 2:	Cuatro (4) meses
Vencimiento Plazo:	Julio 18 de 2012
Valor Inicial del Contrato:	$ 32.275.400
Valor Adición 1:	$ 3.227.540
Valor Adición 2:	$ 12.910.160
Valor Final del Contrato:	$ 48.413.100
Supervisor (Apoyo):	CESAR ORLANDO PINTO MORENO
Supervisor General	CARLOS RODOLFO BORJA HERRERA

3. Estado Financiero del Contrato

CONCEPTO	REGISTRO PRESUPUESTAL NUMERO	Fecha	VALORES
VALOR CONTRATO	CRP No 433 CRP No 55	18 abril 2011 Diciembre 2012	$ 32.275.400
VALOR CONTRATO			$ 32.275.400
ADICION 1	CRP No 837	30 – 12 - 2011	$ 3.227.540
ADICION 2	CRP No 247	12 – 03 - 2012	$ 12.910.160
VALOR TOTAL DEL CONTRATO			$ 48.413.100
VALOR EJECUTADO EFECTIVAMENTE POR LA CONTRATISTA			$ 48.413.100
Valor pagado por el Fondo: Orden de pago 504 del 26-05-2011 por $ 3.227.540 Orden de pago 626 del 01-07-2011 por $ 3.227.540 Orden de pago 710 del 19-07-2011 por $ 3.227.540 Orden de pago 867 del 25-08-2011 por $ 3.227.540 Orden de pago 1011 del 07-10-2011 por $ 3.227.540 Orden de pago 1068 del 24-10-2011 por $ 3.227.540 Orden de pago 1185 del 24-11-2011 por $ 3.227.540 Orden de pago 1284 del 19-12-2011 por $ 3.227.540 Orden de pago 44 del 20-01-2012 por $ 3.227.540 Orden de pago 199 del 23-02-2012 por $ 322.750 Orden de pago 224 del 01-03-2012 por $ 2.904.790 Orden de pago 360 del 23-03-2012 por $ 3.227.540 Orden de pago 487 del 23-04-2011 por $ 3.227.540 Orden de pago 605 del 26-05-2012 por $ 3.227.540 Orden de pago 710 del 26-06-2012 por $ 3.227.540			$ 45.185.560
SALDO A FAVOR DEL CONTRATISTA			$ 3.227.540
SALDO SIN EJECUTAR			$ 0

4. **Cumplimiento del Objeto:**

El Supervisor manifiesta que la *Contratista* cumplió el objeto del Contrato, para lo cual certifica el recibido a satisfacción del mismo, correspondiente al valor ejecutado.

5. **Verificación de Pago de Aportes al Sistema General de Seguridad Social.**

El Supervisor verificó que la contratista cumplió con la obligación de efectuar los aportes al sistema integral de seguridad social de conformidad con lo dispuesto en el artículo 23 de la Ley 1703 de 2002, Ley 828 de 2003 y demás normas concordantes.

ALCALDÍA MAYOR
DE BOGOTÁ D.C.
GOBIERNO, SEGURIDAD Y CONVIVENCIA
Alcaldía Local de Santa Fe

6. PAZ Y SALVO:

Las partes declaran que la ecuación contractual surgida al momento de contratar se mantuvo durante la ejecución del contrato y firmada la presente liquidación las partes se declaran a ***PAZ Y SALVO*** por todo concepto, a una vez se hayan cancelado el saldo relacionado en el numeral 3 Estado financiero.

En constancia se firma por los que en ella intervinieron.

CARLOS RODOLFO BORJA HERRERA
Alcalde Local de Santa Fe

GRACIELA GARZON MARIN
Contratista

CESAR ORLANDO PINTO MORENO
Apoyo a la Supervisión FDLSF

PROYECTO: Orlando Pinto. Profesional Especializado

ALCALDIA MAYOR
DE BOGOTA D.C.

ACTA DE LIQUIDACION DEL CONTRATO PRESTACION DE SERVICIOS 044 DE 2010

Contrato	No 044 de 2010
Tipo de Contrato:	Prestación de Servicios
Contratista:	Graciela Garzón Marín
Cédula o NIT	52.487.146 de Bogotá
Objeto:	Apoyar a la administración local en la implementación de la gestión ambiental, que conlleve a cabal cumplimiento e la normatividad vigente, tendiente a la conservación y preservación de la calidad del aire agua y suelo, en la Localidad, producto de las actividades comerciales, industriales y obras, que afecten la calidad de vida de sus habitantes y asesorar los temas ambientales PIGA – PAEERS que se adelantan en la Localidad
PLAZO	Siete (7) meses.
Fecha de Suscripción	29 de julio de 2010
Fecha Iniciación:	09 de agosto de 2010.
Término Inicial de Ejecución	Siete (7) meses.
Término Final de Ejecución	Seis (6) meses y tres (03) dias
Vencimiento Final del Plazo	11 de febrero de 2011
Valor inicial pactado:	$ 21,000.000
Valor Adicional	$ 0
Supervisor General	María Esmeralda Arias Martinez
Apoyo a la Supervisión	César Orlando Pinto Moreno

ASPECTO ECONOMICO

ALCALDÍA MAYOR
DE BOGOTÁ D.C.

La liquidación es la siguiente:

Valor Total del contrato parcial	$ 21.000.000
Valor Total Adición del contrato	$ 0
Valor pagado por el FDLSF	$ 17.200.000
Saldo a favor del Contratista	$ 1.100.000
Saldo a liberar a favor del FDLSF	$ 2.700.000
Otros (caducidad, multas, incumplimiento, equilibrio económico, ítem no previstos, entre otros debidamente soportado)	$ 0

Con base en la anterior liquidación, se firma a los cuatro (04) días del mes de marzo de dos mil once (2011), dejando constancia que con la suscripción de la presente acta, terminan todas y cada una de las obligaciones contraídas por las partes, declarándose las partes a Paz y Salvo por todo concepto.

Se deja constancia que las actividades fueron ejecutadas y terminadas a satisfacción al 11 de febrero de 2011 y se suscribe la presente acta a solicitud de la contratista en el radicado No 2011-032-001653 del 04 de marzo de 2011, por encontrarse en incapacidad médica (Licencia Materna). Dicha solicitud forma parte integral del Acta de Liquidación del Contrato de Prestación de Servicios No. 044 - 2010

En constancia se firma por los que en ella intervinieron.

Por la Alcaldía Local de Santa Fe

MARIA ESMERALDA ARIAS MARTINEZ
Alcaldesa Local de Santa Fe

CESAR ORLANDO PINTO MORENO
Apoyo a la Supervisión FDLSF

PROYECTO: Cesar Orlando Pinto Moreno
REVISO: Orlando Moreno López

Contratista

GRACIELA GARZÓN MARÍN
GRACIELA GARZÓN MARÍN
Contratista

CENTRO INTERNACIONAL DE FISICA
Asociado con la Universidad Nacional de Colombia

CERTIFICACIÓN

El Centro Internacional de Física-CIF, certifica que la Ingeniera Forestal y Especialista en Sistemas de Información Geográfica **GRACIELA GARZÓN MARÍN**, identificada con la C.C. No. 52.487.146 de Bogotá, estuvo vinculada a esta institución prestando sus servicios profesionales en el marco del proyecto de Telecentro Regional en Tecnologías Geo-espacialesy en apoyo a las actividades relacionadas con la gestión del conocimiento, Contrato 160/2007 COLCIENCIAS-IGAC-CIF, desde el 22 de mayo al 17 de julio de 2009.

Obligaciones del contrato:

a) Revisar los contenidos técnicos en los temas de Percepción Remota y Cartografía Básica, Sistemas de Información Geográfica, e Infraestructura de Datos Espaciales de los cursos virtuales instalados en el Telecentro Regional de Tecnologías Geoespaciales, y llevar a cabo la actualización de los mismos.
b) Apoyar la implementación del plan de actualización de los contenidos instruccionales de los cursos instalados en el Telecentro Regional de Tecnologías Geoespaciales.
c) Analizar las herramientas y capacidades de la Plataforma Tecnológica para proponer medios, materiales y recursos que se requieran para el desarrollo de los cursos virtuales y presenciales, en concordancia con el Modelo Pedagógico.
d) Apoyar la unificación de los contenidos y temáticas que hacen parte de los cursos virtuales y su articulación entre sí.
e) Apoyar a los expertos en contenidos de la elaboración de tareas, evaluaciones, recursos didácticos, notas de clase y demás material que se requiere para el desarrollo del Plan de Capacitación en la modalidad virtual y presencial.
f) Desarrollar actividades de transferencia de conocimientos y participar en conferencias, seminarios y demás eventos institucionales e interinstitucionales, en temáticas relacionadas con el objeto del contrato.
g) Ejecutar las labores de contrato en las instalaciones del IGAC – CIAF, según la disponibilidad de tecnología e infraestructura dispuesta para tal fin.
h) Documentar los avances y resultados del contrato y contribuir con la elaboración de publicaciones o reportes técnicos en el tema de Transferencia y difusión de conocimientos.
i) Velar por la integridad y seguridad de la información manipulada en el desarrollo de las actividades del contrato.
j) Reportar las alertas sobre procesos críticos, con el fin de garantizar que se tomen medidas necesarias para garantizar la ejecución de las labores con eficiencia, calidad y oportunidad

CENTRO INTERNACIONAL DE FISICA
Asociado con la Universidad Nacional de Colombia

k) Realizar semanalmente las copias de seguridad de la información generada o manipulada que se encuentre bajo su responsabilidad
l) Velar por la integridad, privacidad y seguridad de la información manipulada en el desarrollo de las actividades del contrato.
m) Reportar las alertas sobre procesos críticos, con el fin de garantizar que se tomen medidas necesarias para garantizar la ejecución de las labores con eficiencia, calidad y oportunidad
n) Realizar semanalmente las copias de seguridad de la información generada o manipulada que se encuentre bajo su responsabilidad
o) Entregar informes semanales y mensuales de avance del contrato, así como el informe final de las actividades desarrolladas dentro del término de ejecución y de acuerdo con las fechas establecidas
p) Guardar la reserva de la información a la que tenga acceso y dado que ésta es propiedad del INSTITUTO, no podrá suministrar información alguna, ni facilitar copia, ni utilizarla para cualquier otro fin.

Esta certificación se expide a solicitud de la interesada el día siete (7) del mes de octubre de dos mil veintiuno (2021).

Cordial saludo,

Eduardo Posada Flórez
Director
Centro Internacional de Física - CIF

ALCALDIA MAYOR
DE BOGOTÁ D.C.

ACTA DE LIQUIDACION DEL CONTRATO PRESTACION DE SERVICIOS 058 DE 2009

Contrato.	No 058 de 2009
Tipo de Contrato:	Prestación de Servicios
Contratista:	Graciela Garzón Marin
Cédula o NIT	52.487.146 de Bogotá
Objeto:	Apoyar en la implementación de la Gestión Ambiental que conlleve el cabal cumplimiento de la normatividad vigente, tendiente a la conservación y preservación de la calidad del aire, agua y suelo, en la localidad, producto de las actividades comerciales, industriales y de obras, que afecten la calidad de vida de sus habitantes y asesorar los temas ambientales – Plan Institucional Gestión Ambiental – PIGA – Plan de Acción para el Aprovechamiento Eficiente de Residuos Sólidos – PAAERS – que se adelantan en la Alcaldía Local de Santa Fe como apoyo al fortalecimiento de la Gestión Ambiental.
PLAZO	Ocho (8) meses.
Fecha de Suscripción	10 de julio de 2009
Fecha Iniciación:	16 de julio de 2009.
Término Inicial de Ejecución	Ocho (8) meses.
Término adicional de Ejecución	Cuatro (4) meses
Vencimiento Final del Plazo	15 de julio de 2010
Valor inicial pactado:	$ 20,800.000.00
Valor Adicional:	$ 10.400 000.00
Supervisor General	María Esmeralda Arias Martínez
Apoyo a la Supervisión	César Orlando Pinto Moreno

ALCALDIA MAYOR
DE BOGOTA D.C.

ASPECTO ECONOMICO

La liquidación es la siguiente:

Valor Total del contrato parcial	$ 20.800.000.00
Valor Total Adición del contrato	$ 10.400.000.00
Valor pagado por el FDLSF	$ 28.600.000.00
Saldo a favor del Contratista	$ 2.600.000.00
Saldo a liberar a favor del FDLSF	$ 0
Otros (caducidad, multas, incumplimiento, equilibrio económico, item no previstos, entre otros debidamente soportado)	$ 0

Con base en la anterior liquidación, en constancia se firma a los diecinueve (19) días del mes de julio del dos mil diez (2010), dejando constancia que con la suscripción de la presente acta, terminan todas y cada una de las obligaciones contraídas por las partes.

En constancia se firma por los que en ella intervinieron.

Por la Alcaldía Local de Santa Fe

MARIA ESMERALDA ARIAS MARTINEZ
Alcaldesa Local de Santa Fe

CESAR ORLANDO PINTO MORENO
Apoyo a la Supervisión FDLSF

Contratista

Graciela Garzón Marín

GRACIELA GARZÓN MARÍN
Contratista

PROYECTO: Cesar Orlando Pinto Moreno
REVISO: Orlando Moreno Lopez

ACTA DE LIQUIDACIÓN
CONTRATO DE PRESTACION DE SERVICIOS No. CPS-099-2008, CELEBRADO ENTRE EL FONDO DE DESARROLLO LOCAL DE SANTA FE Y GRACIELA GARZON MARIN

En Bogotá D.C. a los trece (13) días del mes de julio de 2009 se reunieron la **Contratista Ingeniera GRACIELA GARZON MARIN**, el Supervisor Ing. **CESAR ORLANDO PINTO MORENO** y la Alcaldesa Local de Santa Fe, Dra. **MARIA ESMERALDA ARIAS MARTINEZ** con el fin de suscribir el ACTA DE LIQUIDACION FINAL DEL Contrato De Prestacion De Servicios No. CPS-099-2008, celebrado entre el Fondo De Desarrollo Local De Santa Fe Y Graciela Garzón Marin, así:

OBJETO	: Apoyar y asesorar los temas ambientales - Plan institucional Gestión Ambiental -PIGA, Plan de Acción Para el Aprovechamiento Eficiente de Residuos Sólidos - PAAERS que se adelantan en la Alcaldía Local de Santa Fe como apoyo al fortalecimiento de la gestión Ambiental
CONTRATISTA	GRACIELA GARZON MARIN
SUPERVISOR	: CESAR ORLANDO PINTO MORENO

1. **VALOR DEL CONTRATO**

VALOR DEL CONTRATO	$ 15.000.000 oo

2. **PLAZOS DE EJECUCIÓN DEL CONTRATO Y ACTAS SUCRITAS**

Plazo inicial	Seis 6 Mes(es)
Fecha de suscripción	19 de diciembre de 2008
Fecha de acta de inicio	22 de diciembre de 2008
Fecha de vencimiento del plazo	21 de junio de 2008
Fecha de Acta de Terminación	13 de julio de 2009
Fecha de Acta de Recibo a Satisfacción	13 de julio de 2009

3. **PAGOS**

A la suscripción de la presente acta se han realizado los siguientes pago

ORDEN DE PAGO NÚMERO	PROYECTO	FECHA	VALOR
83	2297	16 de febrero de 2009	$ 2.500.000
198	2297	20 de marzo de 2009	$ 2.500.000

262	2292	20 de abril de 2009	$ 2.500.000
360	2292	22 de mayo de 2009	$ 2.500.000
	TOTAL		$ 10.000.000

4 GARANTIAS OTORGADAS

TIPO DE AMPARO	NUMERO POLIZA	%	VALOR ASEGURADO	VIGENCIA DESDE	VIGENCIA HASTA
	POLIZA PRINCIPAL				
CUMPLIMIENTO DEL CONTRATO Seguros Del Estado S.a.	15-44 101019169	10	1.500.000	19-12 2009	19-10 2009

5 RECIBO A SATISFACCION DEL SUPERVISOR Y/O INTERVENTOR DEL CONTRATO

La presente Acta de Liquidacion se expide una vez se ha suscrito el Acta de Terminacion y se ha expedido el de Recibo a Satisfacción del Contrato de Prestacion de Servicios No. 099 de 2008 suscritas por la Contratista **GRACIELA GARZON MARIN** y el Supervisor de Apoyo al mismo **CESAR ORLANDO PINTO MORENO**, el día 13 de julio del 2009, en las cuales se evaluó la ejecución del prestado Contrato y se estableció el equilibrio contractual del mismo, demostrándose lo siguiente

6 LIQUIDACION

TIPO DE PAGO	VALOR
Valor Total del Contrato	$15.000.000
Valor Ejecutado por el Contratista	$15.000.000
Valor Pagado al Contratista	$10.000.000
Saldo a favor del FDLSF	**$ 0-**
Saldo a favor del Contratista	**$5.000.000**

7 PAZ Y SALVO

Las partes declaran que, una vez EL FONDO cancele el saldo a favor del CONTRATISTA y se restituyan los valores al FONDO, quedan a PAZ y SALVO todas las obligaciones derivadas del CONTRATO DE PRESTACION DE SERVICIOS No. CPS-099-2008, CELEBRADO ENTRE EL FONDO DE DESARROLLO LOCAL DE SANTA FE Y GRACIELA GARZON MARIN, excepto en los aspectos relacionados con los amparos constituidos (garantía única), de conformidad con lo estipulado por el Artículo 60 de la Ley 80 de 1993.

ALCALDÍA MAYOR DE BOGOTÁ D.C.
SECRETARÍA DE GOBIERNO
Alcaldía Local
Santa Fe

8. **TRANSACCIÓN Y RENUNCIA A RECLAMACIÓN JUDICIAL Y EXTRAJUDICIAL**

El contenido de la presente acta de liquidación constituye TRANSACCIÓN sobre los derechos y obligaciones derivados del CONTRATO DE PRESTACION DE SERVICIOS No. CPS-099-2008 de conformidad con lo previsto por el Artículo 2469 del Código Civil y por el Artículo 60 de la Ley 80 de 1993. igualmente, las partes declaran que RENUNCIAN a cualquier RECLAMACIÓN JUDICIAL O EXTRAJUDICIAL por razón de derechos y obligaciones que tengan o pudieran surgir del CONTRATO DE PRESTACION DE SERVICIOS No. CPS-099-2008 y de la presente acta de liquidacion por considerar que en esta última se contiene la totalidad del acuerdo de los mismos.

La presente acta de liquidación se perfecciona con la firma de las partes.

En constancia de lo anterior y de conformidad con su contenido se firma en la ciudad de Bogotá, D.C., a los 13 días del mes de julio de 2009.

MARIA ESMERALDA ARIAS MARTINEZ
Alcaldesa Local de Santa Fe

GRACIELA GARZON MARIN
Contratista

CESAR ORLANDO PINTO MORENO
Supervisor de Apoyo

Universidad del Cauca

División de Recursos Humanos

5177/188

LA PROFESIONAL ESPECIALIZADA DE LA DIVISION DE RECURSOS HUMANOS DE LA UNIVERSIDAD DEL CAUCA, DE CONFORMIDAD CON LOS DOCUMENTOS QUE REPOSAN EN EL ARCHIVO DE LA INSTITUCION.

C E R T I F I C A:

Que la Ingeniera GRACIELA GARZON MARIN identificada con la Cedula de Ciudadania número 52.487.146 de Bogotá, prestó servicios docentes a la Institución, adscrita al Departamento de Ciencias Agropecuarias de la Facultad de Ciencias Agropecuarias, en las siguientes modalidades:

Ocasional tiempo completo del 7 de Mayo al 22 de Agosto de 2008.

Cátedra con 12 horas semanales del 1 de Octubre al 19 de Diciembre de 2008.

Cátedra con 12 horas semanales del 7 de Enero al 13 de Febrero de 2009.

El presente certificado se expide a solicitud de la interesada, para acreditar experiencia docente.

Dado en Popayán, a los once (11) días del mes de junio de dos mil nueve (2009)

VIVIANA PATRICIA TRIVIÑO ARANGO
Profesional Especializada

Rbo.#10091464

INSTITUTO GEOGRÁFICO AGUSTÍN CODAZZI
SEDE CENTRAL

LA SUSCRITA JEFE DE LA OFICINA ASESORA JURÍDICA DEL INSTITUTO GEOGRÁFICO AGUSTÍN CODAZZI

CERTIFICA:

Que el señora GRACIELA GARZON MARIN identificada con cédula de ciudadanía No. 52.487.146 de Villeta celebró con este Instituto el siguiente contrato estatal de Prestación de Servicios:

CONTRATO No. 2055 - 2007 DEL 08 DE FEBRERO 2007, Y SU ADICIÓN 1 DE SEPTIEMBRE 5 DE 2007.

OBJETO INCLUIDA ADICIÓN: LA CONTRATISTA se obliga para con EL INSTITUTO a Prestar el servicio de informar, orientar y hacer la demostración de los productos que están en formato digital y que el instituto geográfico Agustín Codazzi tiene a disposición de los clientes internos y externos, en la oficina de difusión y mercadeo de información. En desarrollo del objeto, el contratista realizará las siguientes actividades: 1.- Atender las solicitudes que los clientes realicen vía telefónica y personalmente sobre los productos y servicios del instituto 2.- Orientar a los clientes internos y externos sobre el manejo de la cartografía en formato digital que el instituto tiene a disposición de los usuarios 3.- Informar a los funcionarios de la Oficina de Divulgación y Mercadeo de Información sobre las bondades de los productos que se ofrecen en formato digital 4.- Llevar control de las personas atendidas, registrando los datos necesarios para posteriormente hacer el proceso postventa. 5.- Participar en el congreso de Agencias de Viajes Españolas a celebrarse en la cuidad de Cartagena en le mes de Octubre de 2007. Asi mismo, en desarrollo del contrato LA CONTRATISTA entregará los siguientes productos: 1- Informe de clientes externos atendidos por mes. 2- Informes de clientes internos atendidos por mes.

VALOR INCLUIDA ADICIÓN: **$ 13.000.000.00**

VIGENCIA: **OCHO (8) MESES A PARTIR DE LA ORDEN DE INICIAR.**

FECHA INICIACIÓN: 23 de Febrero de 2007.

INSTITUTO GEOGRÁFICO AGUSTÍN CODAZZI

SEDE CENTRAL

CONTINUACIÓN CERTIFICACIÓN GRACIELA GARZON MARIN

EJECUCIÓN DEL CONTRATO: De acuerdo con las actas de interventoria de fechas 28 de marzo, 23 de abril, 23 de mayo, 22 de junio, 23 de julio, 22 de agosto, 21 de Septiembre y 22 de Octubre, del 2007, la contratista cumplió a satisfacción con el objeto del contrato.

Según acta de liquidación de fecha 31 de Octubre de 2007, suscrita por el Jefe (E) de la Oficina de Difusión y Mercadeo de Información, y la contratista se liquido el contrato 2055-07 y su adición indicando que el contrato se cumplió a satisfacción y las partes se declaran a paz y salvo.

Se expide la presente a solicitud del interesado, en Bogotá, D.C., a los seis (06) días del mes de Octubre de dos mil ocho (2008).

MARCELA ABELLA PALACIOS

INSTITUTO GEOGRÁFICO AGUSTÍN CODAZZI
SEDE CENTRAL

LA SUSCRITA SECRETARIA GENERAL DEL INSTITUTO GEOGRÁFICO AGUSTÍN CODAZZI

CERTIFICA:

Que la señora **GRACIELA GARZÓN MARÍN,** identificada con cédula de ciudadanía No. 52.487.146 de Bogotá, celebró con este instituto la siguiente Orden de Servicios.

ORDEN DE SERVICIOS No. 1838 del 16 de noviembre de 2007.

OBJETO: prestar el servicio de informar, orientar y hacer la demostración de los productos que están en formato digital y que el Instituto Geográfico Agustín Codazzi tiene a disposición de los clientes internos y externos, en la Oficina de Difusión y Mercadeo de Información.

OBLIGACIONES DEL CONTRATISTA:

1) Atender las solicitudes que los clientes realicen vía telefónica y personalmente sobre los productos y servicios del Instituto.

2) Orientar a los clientes internos y externos sobre el manejo de la cartografía en formato digital que el Instituto tiene a disposición de los usuarios.

3) Informar a los funcionarios de la Oficina de Información y Mercadeo de información sobre las bondades de los productos que se ofrecen en formato digital.

4) Llevar control de las personas atendidas, registrando los datos necesarios para posteriormente hacer el proceso post-venta

VALOR TOTAL:	$2.133.330.oo
TIEMPO PACTADO:	UN (1) MES Y DIEZ (10) DÍAS
FECHA INICIACIÓN:	26 DE NOVIEMBRE DE 2007
FECHA TERMINACIÓN:	31 DE DICIEMBRE DE 2007

De acuerdo con el acta de interventoría del 21 de diciembre de 2007, la contratista cumplió con las obligaciones contempladas en la Orden de Servicio No. 1838 de 2007.

Se expide a solicitud de la interesada, en Bogotá a los nueve (9) días del mes octubre del año dos mil ocho (2008).

MERCEDES VASQUEZ DE GÓMEZ

Proyectó: Eduardo Ulloa Camacho
Revisó: Martín Eduardo Torres Ochoa
Nelcy Amelia Ariza Ariza

Rad. 8202008EE41 del 03-10-2008

BOGOTA D.C.

Carrera 30 N° 48-51 Conmutador 3694000 3694108 Fax 3694038 Información al cliente 3653443 - 3694000 Ext. 4574 web: www.igac.gov.co
Sistema Gestión de Calidad Certificado

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INGEAMCOL LTDA.
Profesionales en Ingeniería y Medio Ambiente de Colombia
Ingeniería al Servicio de la Sociedad y el Medio Ambiente
NIT: 900028914 – 3

Bogotá D.C.
10 de Enero del 2007

CERTIFICA:

Que la Ingeniera Forestal GRACIELA GARZÓN MARÍN identificada con cédula de ciudadanía No. 52.487.146 De Bogotá, prestó sus servicios profesionales a esta entidad desde el veinte (20) de Enero de 2005, hasta Diciembre veinte (20) del 2005 desarrollando las siguientes actividades:

Elaboración, manejo, preparación y generación de productos cartográficos (base y temáticos) a partir de fotografías aéreas, imágenes de satélite Landsat ETM y planchas base, para la Ordenación de las Cuencas Guayuriba, Guamal y Buque; en el departamento del Meta.

La presente certificación se expide a solicitud del interesado, en Bogotá D.C. a los tres (10) días del mes de Enero de 2007.

Cordialmente:

INGEAMCOL LTDA.

IVANOV ALEXANDER PINEDA RINCON
GERENTE GENERAL

IA-CER-2007-001-01

Calle 82 No. 102 – 79, Bloque 10, Oficina 210, Bogotá D.C.
Teléfono: 4311752 – 2272491, Celular 316-6349190
E-mail: ingeamcol@walla.com

ANEXO 1

FICHA DE CONDICIONES TÉCNICAS ESENCIALES

Descripción y especificación de los Bienes y/o Servicios a contratar.

En mi condición de oferente de la empresa ECOPRADOS AMBIENTALES SAS me comprometo a cumplir con las especificaciones técnicas mínimas establecidas en la *Ficha de Condiciones Técnicas Esenciales - FCTE* en el evento que me sea adjudicado el contrato. Por lo tanto, afirmo que las conozco y cumpliré como obligación contractual.



LUIS FRANCISCO MORENO SANDOVAL
No. 423972 de Topaipí

BRUSH BANDIT

BUILT WITH QUALITY AND DESIGN FIRST

ATTENTION:

Depending on what replacement parts you are ordering, we will need the following information:

CHIPPER COMPONENTS
Serial Number
Model Number of Chipper

ENGINE COMPONENTS
Brand
Engine Serial Number
Engine Spec. Number

CLUTCH COMPONENTS
Brand
Serial Number
Assembly of Clutch





BRUSH CHIPPER
MODELS 65XP(XL)/95
OPERATING & PARTS MANUAL

Model No: _____

Serial No: _____

DEALER:

Name: _____

Address: _____

City/State: _____

Phone No: _____

Delivery Date: _____

Engine Make: _____

Serial No: _____

Clutch Make: _____

Model: _____ S/N _____

Copyright 1/10

MANUFACTURED BY
BANDIT INDUSTRIES, INC.
6750 Millbrook Road
REMUS, MICHIGAN, USA 49340
PHONE: (800) 952-0178 IN USA
PHONE: (989) 561-2270 OR 561-2272
FAX: (989) 561-2273 ~ SALES DEPT.
FAX: (989) 561-2962 ~ PARTS/SERVICE
E-MAIL: www.banditchippers.com

Copyright 3-05 FORM #Q-111

DATE PURCHASED: _____

MODEL: _____

SERIAL NUMBER: _____

DEALER NAME: _____

_____

TO BE RETURNED AFTER THIRTY (30) DAYS OF OPERATION

Please return to: Customer Data Department
6750 Millbrook Road
Remus, MI 49340

PH: (800) 952-0178 in USA
PH: (989) 561-2270
FAX: (989) 561-2273
E-MAIL: www.banditchippers.com

EQUIPMENT QUALITY REPORT

All of the employees that build your equipment strive to manufacturer the **very best quality** product on the market. We would appreciate your efforts in letting us know how we are doing.

We would like you to operate your machine for thirty (30) days and then fill out this questionnaire and mail it to us. This will help us to keep producing a good product and improving our products through your recommendations.

1. Did your machine perform to your expectations? _____
2. Was the machine delivered on schedule? _____
3. Was the paint color and finish to your satisfaction? _____
4. Was machine equipment as ordered? _____
5. Did all welds appear to be of high quality? _____
6. Was the overall machine to your liking? _____
7. What problems have you experienced? _____
8. Have any components regularly loosened that caused problems? _____
9. Does the hydraulic system seem to have adequate power for feeding wood into the machine? _____
10. Is the machine manufactured to accommodate service in an adequate manner? If not, please explain:

    _____

11. General comments and/or suggestions: _____

    _____

    _____

12. Would you like to be contacted concerning more of our equipment? _____

YOUR COMPANY: _____

NAME: _____

ADDRESS: _____

CITY: _____

STATE & ZIP: _____

PHONE: (_____ **)** _____

E-MAIL: _____

Copyright 1-15 FORM #WV-122

IT IS VERY IMPORTANT THAT THIS FORM IS FILLED OUT COMPLETELY & ACCURATELY. IF WE CANNOT READ THE PURCHASER'S INFORMATION OR IT IS INCORRECT, OUR CUSTOMER LIST WILL NOT BE ACCURATE.

IMPORTANT - THIS FORM MUST BE RETURNED TO THE CUSTOMER DATA DEPARTMENT WITHIN TEN (10) DAYS IN ORDER TO VALIDATE WARRANTY

Customer Data Department
6750 Millbrook Road
Remus, MI, USA 49340
Phone: (800) 952-0178 in USA
Phone: (989) 561-2270
Fax: (989) 561-2273
E-mail: www.banditchippers.com

WARRANTY VALIDATION FORM (HAND FED CHIPPER)

PURCHASER / OWNER INFORMATION:

Company Name _____ Contact Name _____

Mailing/Street Address _____ City _____

State _____ Zip Code _____ Country _____ Telephone Number (___) _____

E-mail _____ Machine Model No. _____ Date Put Into Service _____

Machine Serial No. _____ Machine Work Order No. _____ Machine Hours _____

Engine Make _____ Engine Serial No. _____ Machine Color _____

DEALER / SELLER INFORMATION:

Dealer/Seller Name _____ Contact Name _____

Mailing/Street Address _____ City _____

State _____ Zip Code _____ Country _____ Telephone Number (___) _____

1. _____ Customer has been instructed and understands operation and all safety aspects of operating the equipment.
2. _____ Customer has been instructed and understands that everyone within 100 feet (30 m) of machine must wear personal safety equipment (i.e. hard hat, face shield, safety glasses, gloves, ear protection, etc.)
3. _____ Customer has been instructed and understands equipment maintenance schedules, procedures, and that it is their responsibility to perform maintenance that includes periodic relief valve adjustments, retightening all fasteners as needed, periodic cleaning of flow divider, clutch and belt adjustments, etc.
4. _____ Customer has been advised and understands not to reach into the infeed hopper with hands or feet. The machine operators must always be located within easy reach of all feed control and shut down devices.
5. _____ Customer understands that the wooden push paddle must be used to push small debris into the chipper and, that they are not to reach or kick debris into the infeed hopper area of the machine.
6. _____ Customer understands the purpose of and how to operate the last chance device, and if used the machine has been operated in an unsafe manner. Customer understands to never attempt to override any safety devices or guards.
7. _____ Customer has been instructed and understands to always remove the ignition key and completely disconnect battery from cables, wait for the chipper disc/drum to come to a complete stop, and to install the disc/drum lock before performing any type of maintenance on the machine. Allow all the time necessary for the disc/drum to come to a complete stop before opening the disc/drum housing or starting any maintenance or service procedures. Customer has been shown and understands the purpose of the beltshield inspection hole and to not attempt any maintenance until belts are visually confirmed to have come to a complete stop.
8. _____ Customer has been instructed and understands: To Not operate this machine without the factory approved hood pin assembly in place and padlocked. To Not operate this machine with any type of make shift hood pin. To Not operate this machine under any circumstances with the chipper hood open or unsecured.
9. _____ Customer has reviewed and understands limited warranty, and all written and visual instructions.
10. _____ Customer has received, been advised, and understands the manuals, and the Safety/Service video supplied with the chipper. A video is supplied for equipment models as available.
11. _____ All Danger, Warning and Operational decals are properly displayed on equipment and fully understood by customer.
12. _____ Customer has been instructed, understands, and agrees that all potential operators must: See the supplied video, be instructed on all the Danger, Warning and Operational decals, read the manual and follow the procedures.
13. _____ I have been advised of all safety options.

I have inspected this equipment and find it in correct working condition. To the best of my knowledge, the customer and his/her personnel are aware of, and agree to the above procedures.

Signed: _____ **Date:** _____

(Dealer Representative)

The equipment has been thoroughly checked by the above named dealer representative, and I am satisfied with his/her instructions. I have also read, understand, and agree to reverse side of page.

Signed: _____ **Date:** _____

(Customer)

White-Bandit Industries, Inc. copy / Yellow-Dealer copy / Pink-Customer copy

SAFETY PROCEDURES
BRUSH BANDIT CHIPPERS

SAFETY ALERT SYMBOLS AND NOTATIONS

Signal Word	Likelihood of Occurrence	Degree of Potential Injury or Damage
⚠DANGER	Will occur if warning is ignored	Severe
⚠WARNING	Can occur if warning is ignored	Severe
⚠CAUTION	Will or can occur if warning is ignored	Minor to Severe
NOTICE	Important, but not hazard related	Minor

THIS IS GENERAL INFORMATION REVIEW, UNDERSTAND AND FOLLOW DETAILED INFORMATION IN MANUALS AND DECALS AT ALL TIMES

⚠DANGER

This machine is equipped with safety decals, guards and designs for your protection.

Don't ever take the machine for granted, always be cautious and careful when operating your equipment.

Read and follow all the instructions in your manual thoroughly. Your safety is dependent on your knowledge of how to operate and maintain this machine. You may obtain additional copies of this manual from your Bandit Dealer.

Before operating machine, you must have all potential operators; read and understand manuals and decals, watch the video and follow the recommendations.

Regardless of how hard a manufacturer tries to produce a safe machine, accidents still happen. Normally accidents are caused by people making mistakes. They do not read the manual, they ignore warning decals or do not use lockouts provided for their safety. This normally happens after the person has become accustomed to the machinery. In the initial start up and operation of the machinery, they are cautious, they are very careful because they do not understand the machine.

This equipment is intended for use by personnel who are experienced with similar equipment. Always operate safely. There must be at least two qualified and trained operators at the work site. They must be positioned in safe working locations, following safety procedures and instructions, and aware of each others whereabouts. There must, also, be at least two people on site during maintenance and service procedures in case an accident should occur. Never operate any machine while under the influence of drugs or alcohol.

Keep children, bystanders and animals clear of working area. Never operate equipment that is in need of repair or adjustment.

⚠DANGER

Torn or loose clothing is more likely to get caught in moving machinery parts or tree branches. Keep such items as long hair, shirt sleeves, and shirt tails properly contained. Avoid wearing necklaces, rings, watches, and especially neckties while operating this machinery. Make sure the machine is in excellent condition, and all the guards are in place, tight and secure.

Wear all personal protection equipment and follow all safety standards per ANSI and OSHA instructions. Examples of equipment: hard hat, face shield, safety glasses, gloves, ear protection, etc. Do not wear gauntlet or secured fit gloves. Always keep a fully charged fire extinguisher with the machine while operating or servicing the machine.

⚠DANGER

Before starting the machine, take a minute to check a few things. The machine should be in an area restricted from people passing by. This area around the machine must be free of all objects that can obstruct your movement when working with the machine. The machine should be checked for loose tools or foreign objects, especially in the infeed hopper area. All tools not in use should be secured in a tool box.

⚠DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the chipper disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession.

ALWAYS install the disc/drum lock pin to prevent inadvertent rotation. On disc chippers insert lock pin through lock pin tube on the belly band under hood rest. On drum chippers insert lock pin through lock pin tube on side of drum housing.

Simply slide the lock pin into the disc/drum lock tube. This is to ensure that the chipper disc/drum cannot be started while you are working inside the machine. If for some reason the chipper disc/drum would start to turn, it would simply hit the lock pin.

⚠WARNING

Always stand to the side of the infeed hopper when inserting material. This will allow you to turn away from the wood, and walk away, without passing through the material. Machines should be fed from curbside (right side) whenever possible. Anytime an operator is near the infeed hopper, they must be within easy reach of feed control devices.

To increase production, don't waste time watching the material being fed. Once the limbs have started into the machine, you can walk away and get more material.

Keep the feedwheel tension springs adjusted only tight enough to keep the feedwheel teeth from slipping on the material. DO NOT OVERTIGHTEN! This will overwork the hydraulic system, and make it difficult to feed larger material.

Always start the larger end (base end) of the log, tree or branch into the feedwheel(s) first.

Keep the engine R.P.M.'s at full throttle whether you are chipping brush or round wood. Lower R.P.M.'s will cause weak throwing power, and can cause plugging in the discharge.

⚠DANGER

Always block the tires and the machine tongue whenever the machine is unhooked for operation. DO NOT rely on the tongue jack for operational stabilization.

⚠DANGER

Never reach into the infeed hopper area of the machine, there is never any reason to. The feedwheel(s) are designed to pull trees and brush of any length into the machine. Pulling a hand, arm, foot or entire body through the machine is much easier than pulling a tree. Do not think you will be able to pull yourself free of the feedwheel(s), they will not let go. There is absolutely no reason to work inside of the infeed hopper. If the feedwheel(s) become tangled or clogged, stop the machine and wait several minutes before cleaning them out. If there are short pieces, or leaves and twigs, just leave them until feeding longer pieces. While the long pieces are feeding, simply toss the short pieces on top of them. The longer pieces will take them on into the machine.

A wooden push paddle has been provided to assist in feeding smaller material. It is the owner's and operator's responsibility to use and keep a wooden push paddle with the machine and to also secure it when transporting the machine. DO NOT use any body parts or any steel devices inside the infeed hopper area.

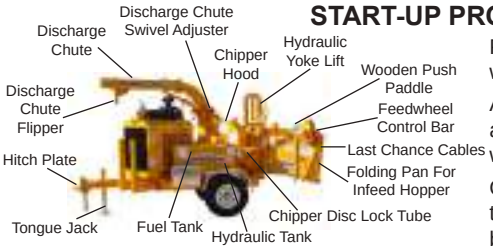
If there is larger diameter wood, try to feed it with smaller diameter wood. Start a small diameter limb which will partially open the feedwheel(s). Once the feedwheel(s) are partially open it is much easier to insert the larger diameter wood.

When feeding larger diameter wood, listen for the engine to possibly lug down. If it starts lugging down stop the feedwheel(s) by pushing the hydraulic control bar to off, and let the engine recover to full speed. If the machine is equipped with Autofeed and it is functioning properly, the feed system will automatically stop to let the engine recover. This will help stop the machine from plugging the discharge chute.

⚠WARNING

Operators **must** at all times be located within easy reach of all feed control and shut-off devices when the unit is running. They must be attentive and prepared to activate the devices.

START-UP PROCEDURES



Position the control bar in the off position and start the engine and let the engine warm up at 1000 RPM's. (Follow engine manual information.) The machine may show signs of vibration until the engine can set at full throttle. The engine causes most of this vibration until it is brought up to full throttle. Engage PTO clutch, if applicable.

Push control bar forward towards the machine. This will allow the feedwheels to turn in reverse.

Allowing the feedwheels to turn in reverse will also allow for the hydraulic oil to warm up along with the engine.

Once the engine is properly warmed up, position the discharge chute to the proper position and bring the engine to full throttle. (Follow engine break-in procedures.)

Make sure to wear all personal protection equipment and follow all safety standards per ANSI and OSHA instructions. Examples of equipment: hard hat, face shield, safety glasses, gloves, ear protection, etc.

DANGER

ACCIDENTS INVOLVING BRUSH CHIPPERS CAN AND SHOULD BE PREVENTED...

Operator training and enforcement of safety policies are

ESSENTIAL!

⚠ DANGER

READ, UNDERSTAND AND FOLLOW ALL SAFETY RULES AND INSTRUCTIONS

This safety booklet describes important safety features on Brush Bandit® Chippers. This booklet involves safety for your employees and the chipper. The safety features are available as update kits for older chippers and can be obtained for very little expense. If you have chippers that Do Not have any of these - Add them to your chipper now.

If you have purchased a Brush Bandit® Chipper second hand, know someone that has, or have resold a Brush Bandit® Chipper - please contact us. Please fax us at (989) 561-2273 or e-mail us at www.banditchippers.com with the chipper model number, chipper serial number, and current owners name, address, etc. We need to know them and we want them to know us. Your assistance is greatly appreciated.

Make sure your chipper operators have been properly trained, and have read, understand, and follow safety and operational procedures contained in the manuals, on the chipper itself, on decals, in this booklet, and the video. These devices can be obtained through your local Bandit® dealer. To find your closest dealer, look in the yellow pages, look on our web page (www.banditchippers.com), or call 800-952-0178 or 989-561-2270.

Most, if not all, chipper related accidents are caused by operator negligence. A lack of proper and ongoing training and lack of enforcement of safety policies significantly increase the opportunity for operator error.

Many companies involved in tree care or tree maintenance have weekly meetings to review potential hazards and discuss how accidents can be avoided. These meetings are a benefit to new inexperienced employees, and also remind experienced employees of the obvious dangers involved with tree work. Even experienced employees may be injured if they mistakenly believe they fully understand the machine, yet take unnecessary chances.

Industry leaders agree that safety should be at the top of everyone's priority list. Employees need constant reminders not to become over confident and not to take a casual approach to the potential hazards they encounter on a daily basis. Improperly operating a brush chipper is very dangerous. The operator must be trained and warned that amputation and death can happen unless they follow all warning instructions. They must also always be in position and ready to operate feed controls if a dangerous situation should arise.



Bandit Industries, Inc. provides numerous decals on our chippers, safety instructions in operator manuals, and videos to warn operators of hazards involving the use of the chipper. Additionally, we endeavor to provide safety features on the machines to help prevent possible accidents when operators become careless and neglectful.

The Brush Bandit® Chipper was introduced in 1983. Since then there have been several acciddents in the feed wheel area involving hands, arms, feet, and legs, some of which have resulted in death. These injuries are caused by operators who improperly reach or kick into the chipper feedwheels. An operator reaches or kicks into the feedwheels when he or she feels a need to push small twigs, leaves, etc. into the feedwheels or to dislodge a piece of material in the machine. DO NOT reach or kick into the infeed hopper under any circumstances!

⚠ DANGER

NEVER REACH INTO THE INFEED HOPPER.



Operators must be trained to be constantly thinking about being in a position and ready to use the forward-off-reverse feed control bar and other controls. They should be thinking and ready to stop or reverse the feed control bar the instant they feel any pulling toward the infeed hopper or feedwheels. It is very easy to activate the control when the operator is properly positioned, to stop or reverse the feedwheels, especially if they are properly trained and paying attention.

It is difficult to activate the forward-off-reverse feed control bar if the operator is bent over, reaching into the infeed hopper of the chipper. In this position the operator is past the feed control bar, and in a very unsafe situation requiring him/her to reach back and contact the control bar to stop or reverse the

feedwheels. The operators manual, video, and decals (located several places on chipper) state; "never put feet or hands into the infeed hopper for any reason".

If you have short pieces of wood, leaves, or twigs simply lay them on top of longer material while it is feeding into the chipper. You can also use the wooden pusher tool. Do not feed vines or vine type material into the chipper. Cut the vines into 4 to 5 foot lengths and lay them on top of longer material while it is feeding into the chipper. With the vine material at this length, stop the feedwheels and lay the 4 to 5 foot pieces in the infeed hopper, then they should be fed with the wooden pusher paddle. If you can't cut the vines to this length, don't feed it into the chipper. Never put feet or hands into the infeed hopper for any reason! Always be positioned and ready to operate control handle.

Always stand to the side of the infeed hopper when inserting material. This will allow you to turn away from the wood, and walk away, without passing through the material. Feeding from the side also positions the operator further from the feedwheels.

If you or your employees are not following these instructions, a very serious accident could occur. There is no such thing as a "minor accident" if an operator gets into the feedwheels. Severe lacerations, amputations, or even death can occur.

⚠ DANGER

NEVER REACH INTO THE INFEED HOPPER.

Do not let this happen to you or your employees. Follow correct operating instructions. There have been several accidents that involved foot amputations, leg amputations, and death as a result of operators kicking into the infeed hopper of the chipper. Brush chippers are designed to be operated with hands placing the material into the chipper - NOT FEET! If the operator kicks the material that has become lodged or is not going into the feedwheels, he or she is placing themselves in extreme danger. If the wood does free up and goes into the feedwheels, the operator can be thrown off balance. NEVER KICK OR PLACE A FOOT IN THE CHIPPER INFEED HOPPER! Use a wooden push paddle to feed light, loose, wood material such as twigs, leaves, etc. or when job is done you can shut off everything, sweep up everything, and throw it in the chip box or pile. If the wood material becomes lodged and stops feeding, back it out, and turn it to a better position or trim it with a chain saw. Then, re-feed it into the chipper. NEVER FIGHT WITH THE WOOD TO GET IT TO ENTER THE CHIPPER!

Bandit Industries, Inc. continues looking into what can be done to reduce chipper injuries. The following safety features have been developed for, and are currently being used on Brush Bandit® Chippers. They are available from your local Bandit® Dealer. Some are new and some have been presented before. We urge you to update your chippers with these devices.

To update your chippers, you must supply chipper models and serial numbers of every unit where you are installing these very important safety features. Safety devices available vary between "Hand Fed" and "Loader Fed" Chippers.



⚠ DANGER

SAFETY CLOTHING AND APPAREL

SAFETY CLOTHING AND APPAREL

It is essential that a chipper operator wears proper gloves, clothing, hard hat, face shield, hearing protection, safety glasses, etc. when operating a chipper. Don't wear gauntlet type gloves or loose impropr clothing. Avoid wearing necklaces, rings, watches, and neckties while operating the equipment.

Follow the established "ANSI" and "OSHA" standards.



When you supply chipper model and serial number, these kits are available from your local Bandit® dealer.

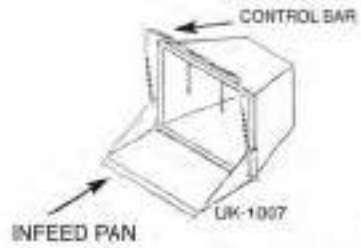
⚠ SAFETY FEATURE

WELD ON INFEED PAN EXTENSION

Update Kit # UK-1007
"WELD-ON INFEED EXTENSION PAN"

Update Kit # UK-1014
"12" EXTENSION FOR 18" PAN"

You must supply the chipper model number and chipper serial number when ordering, to ensure an accurate fit of the weld-on pan or pan extension. Also supply the inside width dimension of the inlet end of the infeed hopper or existing 18" deep folding infeed pan. Folding infeed pans were optional on Bandit Chippers for many years. The 18" deep infeed pan became standard equipment on Bandit hand-fed chippers in February 1994. The 30" deep folding infeed pan became standard in January 2000. If your chipper is not equipped with the pan device that extends the infeed hopper 30", one of these two weld-on kits would apply. They are simple to install. The purpose is to help locate the chipper operator further from the feedwheels; in the event he/she negligently reaches toward the feedwheels. THERE IS NO NEED TO REACH OR KICK INSIDE THE INFEED HOPPER AREA. It is foolish, negligent, and extremely dangerous. DO NOT DO IT! DON'T use your foot to push material inside the infeed hopper. ALWAYS be in a position and ready to quickly activate the forward-neutral-reverse feed control bar whenever you are near the infeed hopper. "Stop To Think" BEFORE you put your hand, foot, or body in a dangerous position - and then DON'T DO IT!







⚠ SAFETY FEATURE

WOODEN PUSH PADDLE MOUNT

Update Kit # UK-1008
"WOODEN PUSH PADDLE AND MOUNT"

The "Wood Push Paddle and Mount" have been standard equipment on our hand fed chippers since March 21, 1994. The wooden push paddle, if used correctly, is intended to reduce the chance of a negligent operator disregarding correct procedures, and using his/her foot or hand to push small wood debris in the infeed hopper area. The wooden push paddle allows the operator to safely push materials from outside the infeed hopper.

The wooden push paddle can also be used to push wood that may be hung up in the feedwheels. If the hang up can not be dislodged by the wooden push paddle, a foot or hand won't help either. Do Not use steel or shovels or rakes. Reverse the material and trim it down,or shut down the chipper, wait as many minutes as it takes for everything to completely stop and dislodge the material using safety procedures. Have you heard reports or seen operators bending over and reaching way back into the infeed hopper, near the feedwheels? Have you seen or heard of your employees using their foot to kick or push material that is inside the infeed hopper? If either answer is yes, think how important the wooden push paddle can be to discourage reaching or kicking into the feedwheels. The wooden push paddle can be ordered through the Bandit® dealer:



#626-0000-52	#980-0507-42	#981-1005-30	#980-200147
14" Wide Paddle	19" Wide Paddle	22" Wide Paddle	34" Wide Paddle

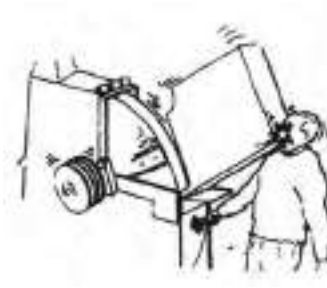
⚠ SAFETY FEATURE

SPRING LOCK FOR HOOD PIN

Update Kit # UK-1009
"SPRING LOCK FOR HOOD PIN"

Since November 1996 Bandit Industries, Inc. has been installing on our hydraulic feed disc chippers a patented spring lock device for the hood pin. If properly maintained the device prevents the hood pin from being removed when the chipper disc is turning. The spring pin is positioned in front of a collar on the hood pin and when the hood pin is secured in place the hood is kept closed. While the disc is turning, the spring lock pin prevents the hood pin from being removed. The disc and disc shaft must stop turning to recess the spring lock pin and remove the hood pin. Do Not open the chipper hood with the chipper disc turning. Do Not run the chipper with the hood open. Do Not close the hood with the chipper disc turning. Do Not operate without a factory approved chipper hood pin system securely in place, and padlocked.





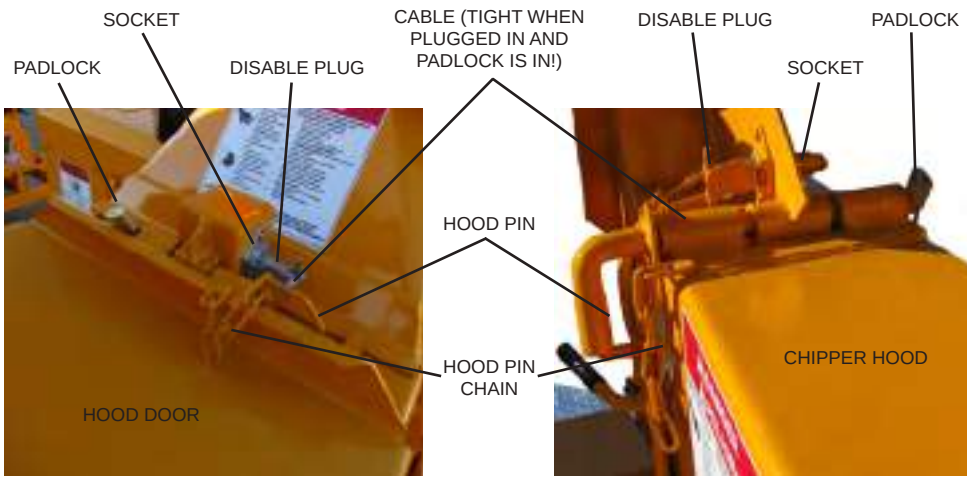
⚠ SAFETY FEATURE

CHIPPER HOOD ENGINE DISABLE PLUG

Update Kit # UK-1010
"CHIPPER HOOD ENGINE DISABLE PLUG"

Since September 1998 mechanical feed hand fed Bandit® Chippers have been built with a plug-in device on the chipper hood that disables the engine if the hood pin, is not properly in place holding the chipper hood in the closed position. Correctly installed and maintained, the engine will not start or it will shut off if the plug-in is disconnected. The chipper hood must NEVER be opened, or pushed closed if the disc/drum is turning.

When you supply the chipper model and serial number, this kit is available through your local Bandit® dealer. You also need to supply us with the engine make and model, then we will include the electric schematic to wire the device into the engine system.



DRUM CHIPPER

DISC CHIPPER

⚠ SAFETY FEATURE

LAST CHANCE STOP

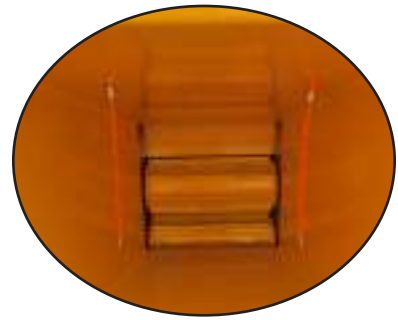
Update Kit # UK-1011
"LAST CHANCE STOP"

Have you heard reports or seen your employees bending over and reaching into the infeed hopper, near the feedwheels? Along with the wooden push paddle and the infeed hopper pan, Bandit Industries, Inc. began installing on their mechanical feed hand fed chippers the patented "Last Chance Stop" cable system. This system has been standard on Bandit® Chippers since March 1997. This device was developed to provide an emergency shut-off/reverse for the hydraulic feedwheels on most hand fed chippers, and operates without any electric parts. The system typically consists of two simple cables hanging inside the infeed hopper and in front of the feedwheels approximately halfway between the entrance of the infeed hopper and the feedwheels.

If an operator incorrectly finds themselves past the feed control bar and inside the infeed hopper, he/she has a cable to reverse/stop feedwheels and wood flow.

The "Last Chance Stop" is Not installed to encourage an operator to reach into the infeed hopper. Operators should never reach into that area with hands or feet. If your operator gets into a situation that the safety cable needs to be pulled, they have been operating the chipper in an unsafe manner contrary to all safety instructions. The system must be properly maintained and periodically checked. The "Last Chance Stop" will do nothing for the negligent operator kicking into the infeed hopper.



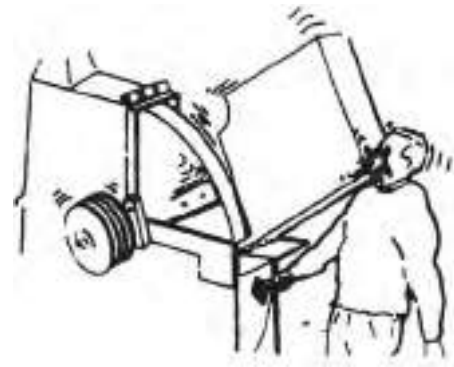


⚠ SAFETY FEATURE

HOOD LOCK PIN WITH ATTACHING CHAIN

Update Kit # UK-1012
"HOOD LOCK PIN WITH ATTACHING CHAIN"

Brush Chippers have been involved in a number of hood related accidents over the years. Some have resulted in death! All known hood accidents happened because the factory installed solid steel pin joining the hood halves was removed and the disc was spinning when the chipper hood was opened or being closed. Do Not open the chipper hood with chipper disc/drum turning. Do Not close the hood with chipper disc/drum turning. Do Not run the chipper with the hood open. Do Not operate without the factory approved chipper hood pin system securely in place.



The Hood Pin has to be in place to do what it was designed to do.

Hood pins and associated parts like padlocks, engine disable plug, and spring lock for the hood pin are all available from Bandit® Dealers.

Do Not attempt to remove the hood pin or open chipper hood until the engine is shut off, you have waited as many minutes as it takes, and you can see, feel, and hear that the chipper disc/drum has stopped turning.

If the hood contacts a spinning chipper disc/drum it can suddenly fly open and severely injure or kill you.

Make-shift replacement pins don't work and are dangerous. Use the correct size factory approved pins.

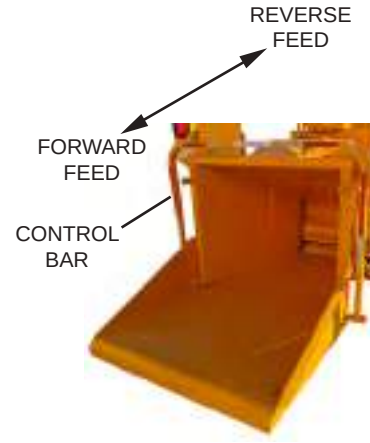
⚠ SAFETY FEATURE

FEED CONTROL BAR

FEED CONTROL BAR

Brush Bandit® Chippers that are designed to be hand fed have a simple, easy to reach feed control bar located across the top and down both sides of the infeed hopper. The feed control bar operates the feedwheels forward-neutral-reverse pulling, stopping, and reversing the wood branches into the chipper. The operator must always be thinking, ready, and in position to reverse the wood flow if a dangerous situation should arise. Push the control bar away from the operator (toward chipper) to reverse wood flow on all chippers that are designed for hand feeding.

Keep the control handle serviced, and properly operational at all times. If something gets hung up in the chipper feed system, reverse it back out. Reposition the material and re-feed it back into the infeed hopper. If the wood material is too big or limby, back it out, trim it, and re-feed it in portions. NEVER fight or wrestle with limbs or branches! Forcing material into the chipper is an unsafe practice. When you supply the chipper model and serial number, replacement feed control bars are available at your Bandit® dealer.



⚠ WARNING

WARNING DECALS

WARNING DECALS

There are warning decals prominently displayed on the chipper to provide a constant reminder as to how the machine should be fed, operated, and maintained. It is the owners and operators responsibility to keep all decals, especially safety related decals, clean and readable. Every person involved in the operation or service of the chipper must be familiar, understand, and follow instructions on the decals. Decals are available in a variety of languages via Bandit® dealers or factory.

Correct Installation and Care of Decals

1. You should use soap and water to keep your decals clean. Never use mineral spirits or any other abrasive cleaners.
2. Replace immediately any missing or damaged decals. The location the decal is going to be applied to must be clean and dry, and at least 40°F (5°C) before applying decal.
3. When the need arises to replace a machine component with a decal attached, be sure and replace the decal.
4. Replacement decals are available, and can be purchased from the manufacturer or your Bandit Dealer.
5. Peel back about half of the backer paper on the decal. Position it on the flat, dry, clean surface so it is smooth and secure. Peel off the remainder of the backer paper as you continue to stick the decal on the surface.
6. Rub decal from the center outward to remove air bubbles and to secure contact.
7. Combination English / Spanish decals are typically standard. Other foreign language decals are available and may be purchased. Mail translated decals required to Bandit Industries, Inc.

⚠ WARNING

OPERATOR MANUALS

OPERATOR MANUALS

Chipper operator manuals are available for all of our equipment and when machines leave the factory, they are shipped with the manuals. There is extensive safety, service, and operational information in the manuals. An operator must never be allowed to use a chipper unless he/she is completely trained, has read and understands the manual and decals, and will follow the instructions provided. The instructions are for the safety of the operator, machine, bystanders, and nearby buildings. You can obtain manuals through your Bandit® dealers.



⚠ WARNING

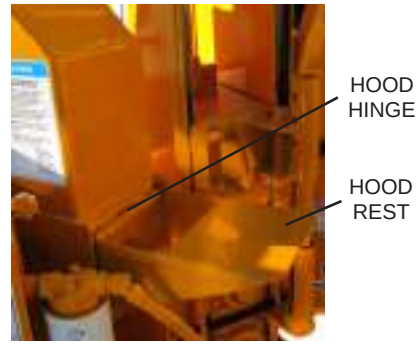
HOOD HINGE AND HOOD REST

HOOD HINGE AND HOOD REST

The hood hinge and the hood pin are what holds the pivoting hood half in place. Both have to be properly and securely fitted and maintained. A loose or bent hinge could cause the hood to come in contact with the chipper disc/drum. IF A HOOD HINGE GETS SLOPPY OR CRACKED OR BENT, IT MUST BE REPLACED! Don't wait, replace it! The hinge is used for hood alignment and hood location security.

Don't slam the chipper hood open! It damages the hinge!

The hinge needs periodic lubrication to properly operate and to avoid excessive wear! The hinge, hood rest, and hood require scheduled inspection. If they are damaged, replace them! Use only a Bandit factory replacement part.



⚠ WARNING

CHIPPER KNIVES

CHIPPER KNIVES

You must use sharp, good quality chipper knives that have not been resharpened past the recommended width, per manual. Dull chipper knives are not only dangerous, but add to operating costs and slow production. Chippers Do Not feed or throw chips properly when the knives are dull. Operating with dull knives may cause the operator to push, kick, or wrestle with the wood going into the chipper which is unsafe. Dull knives make the chipper vibrate excessively, causing machine fatigue, damage, and the engine to use more fuel. Keep the knives sharp and the chipper will work smoother, feed wood easier, and make a safer operation. In the long run, sharp knives can save you money.

The chipper knives must be of good quality and the correct design for that model chipper. The knives must be properly hardened at the edge, annealed at the bolt holes, and the correct metallurgical composition. Improper knives may break and cause a dangerous and costly accident. Use only factory approved knives and mounting hardware from Bandit Industries, Inc.

Bandit Industries, Inc. offers through our dealers a unique knife sharpening device called "The Knife Saver Kit™" that within minutes can put a sharp edge back on a dulled chipper knife. The knife doesn't have to be removed from the disc or drum. The Knife Saver Kit™ sells under part number 900-9901-68.

The kit includes the sharpener, protective glove, a touch-up file, and comes in a protective case. The Knife Saver Kit™ will not restore knives that are severely nicked or damaged, but will extend knife life before needing a professional knife grind.



⚠ DANGER

REFLECTIVE STRIPED TAPE ON FEED CONTROL HANDLE

REFLECTIVE STRIPED TAPE ON FEED CONTROL HANDLE

We began installing striped reflective tape on the feed control handle of our hand fed chippers. This tape is reflective, self adhesive, and has contrasting colors. The tape helps make the feed control bar stand out more and it makes the rear of the chipper more visible to a vehicle behind you while transporting the chipper. Striped tape can be obtained through your local Bandit® dealer. The striped tape can be ordered by the foot under part number 900-9901-69.



PROCEDURE FOR UNPLUGGING YOUR CHIPPER

If your chipper is plugging, it is usually caused by allowing the engine to drop below required R.P.M.'s. This can be resolved by simply shutting the feedwheel(s) off when the engine begins to lug down. Operating the engine at speeds lower than full R.P.M.'s causes your chipper to plug. **Always run the chipper at full engine speed.** If your chipper is equipped with the optional autofeed feature, make sure it is set correctly. The setting for the low R.P.M. stop must be high enough not to allow the chipper discharge to plug. Dull chipper knives also contribute to chipper plugging. Dull knives can create slivers and chunks, causing the engine to lug excessively. Both of the aforementioned conditions cause a plugging situation.

⚠DANGER

If the chipper is properly maintained and operated correctly, the chipper should not plug. In the unlikely event that the chipper becomes plugged, do not attempt to clean out the discharge or chipper housing in the field. Take the machine to a local dealer or professional shop. If the machine is a rental, take it back to the rental company.

⚠DANGER

If the discharge or hood need to be removed, always use some sort of mechanical device like an overhead hoist, loader, lift truck, etc. that is rated for lifting that component. Follow all OSHA instructions for lifting.

STEPS TO FOLLOW WHEN UNPLUGGING YOUR CHIPPER

1. Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession.
2. There should, also, be at least two people on site during maintenance and service procedures in case an accident should occur.
3. Make sure the chipper disc/drum is **NOT** turning and then open the hinged portion of the chipper hood.
4. Using gloved hands and some type of raking tool, dig the chips out of the chipper housing.
5. If the discharge chute is plugged, use a raking tool to pull the majority of chips out of the open outlet end of the chute. If the discharge chute needs to removed, use some sort of mechanical device like an overhead hoist, loader, lift truck, etc. that is rated to lift the discharge. Follow all OSHA instructions for lifting.
6. Never allow a person to turn the chipper disc/drum when someone else is working inside the chipper housing. More than likely, the chipper disc/drum will turn hard then loosen causing it to turn faster. If another person is anywhere near the chipper disc/drum, they may be injured.
7. Never turn the chipper disc/drum by hand. Always use a pry bar or wood bar. This will prevent the person turning the disc/drum from being injured should the disc/drum break loose.
8. Reinstall the discharge chute, mount securely and point it in a safe direction away from anything.
9. Never leave the chipper hood open and try to start the engine in order to engage the chipper disc/ drum to blow chips out of the housing, this is very hard on the P.T.O. of the chipper and may burn clutch plates. Also, the flying debris is very dangerous. An exposed chipper disc/drum turning very fast creates an unsafe condition. In other words, **DO NOT** start the chipper with the hood open because it is just too dangerous.
10. Once the disc/drum turns freely, close the chipper hood, insert the hood pin, install the padlock in the hood pin, reinstall the chipper hood engine disable plug, make sure the spring lock for hood pin springs back to the correct operating position on disc chippers, start engine, properly engage clutch and throttle to full speed. Insert a small branch into the feedwheel(s). If the chips discharge properly, the chipper is clear and normal operation may resume.

Training is essential! It is extremely important for everyone who operates a wood chipper to be trained. Operating instructions for the chipper are included in Bandit manuals, decals, and training videos with each chipper sold. We also highly recommend that you use the NAA chipper safety video. A copy of the video can be purchased by contacting NAA at the following address:

Tree Care Industry Association
3 Perimeter Road, Unit 1
Manchester, NH 03103
Phone: 603-314-5380
800-733-2622
Fax: 603-314-5386
E-mail: www.tcia.org

Safety training and enforcement of safety operating procedures is an important process. No device will prevent accidents when equipment is operated in an improper manner. Operators need a frequent reminder as to the proper, safe operation of any piece of equipment, especially a chipper that is designed to quickly break down material much tougher than human flesh.

Please meet with your employees and have them read this Safety Booklet. Ask them what they think about the dangers we have discussed. Ask them if they have been guilty of some of the unsafe practices addressed in this bulletin. Lecture, preach, train, discuss, and enforce safety procedures constantly!!

Maintenance of a chipper also includes maintenance of safety devises. If you loose or destroy the wooden push paddle, get another one.

Chipper safety has to be a constant and continuing effort by all involved while operating and maintaining chippers.

Bandit Industries, Inc.
6750 Millbrook Rd.
Remus, MI 49340
USA

PHONE: (800) 952-0178 in USA
PHONE: (989) 561-2270 or 561-2272
FAX: (989) 561-2273 ~ Sales Dept.
FAX: (989) 561-2962 ~ Parts/Service Dept.
E-MAIL: www.banditchippers.com

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NOTICE

IF THE MACHINE HAS A LOADER OR TRACK UNDERCARRIAGE, CONTACT DEALER OR MANUFACTURER FOR MORE INFORMATION.

NOTICE

IF THE MACHINE HAS A LOADER OR TRACK UNDERCARRIAGE, A SEPARATE (LOOSE) HYDRAULIC AND ELECTRIC SCHEMATIC IS SUPPLIED WITH THE MACHINE.

NOTICE

ANY PART, PORTION, DESIGN, NUMBER, SPECIFICATION, AND/OR DIMENSION IN THIS MANUAL IS SUBJECT TO CHANGE WITHOUT NOTICE BY THE MANUFACTURER.

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INTRODUCTION

The purpose of this manual is to provide the user with specifications and procedures for the operation, maintenance and repair of this BANDIT product. As with any piece of equipment, safety should always be a constant thought while the machine is being operated, serviced or stored. In order to highlight this consideration, the material which addresses safety is proceeded by the following signal words:

Signal Word	Likelihood of Occurrence	Degree of Potential Injury or Damage
⚠ **DANGER**	Will occur if warning is ignored	Severe
⚠ **WARNING**	Can occur if warning is ignored	Severe
⚠ **CAUTION**	Will or can occur if warning is ignored	Minor to Severe
NOTICE	Important, but not hazard related	Minor

The equipment is designed and manufactured in accordance with the latest product industry standards. This alone does not prevent injury. It is the operator's responsibility to use good judgement and follow the warnings and instructions as indicated in this manual, on the machine and follow all safety standards per ANSI and OSHA instructions.

⚠ WARNING

Improper use of the product can result in severe personal injury. Personnel using the equipment must be qualified, trained and familiar with the operating procedures as defined in this manual, prior to operating the product.

⚠ WARNING

It is the responsibility of the owner or employer to insure that the operator is trained and practices safe operation while using and servicing the machine. It is also the owner's responsibility to provide and follow a regularly scheduled preventative maintenance and repair program on the product, using only factory approved replacement parts. Any unapproved repairs or modifications may not only damage the machine and its performance, but could result in severe personal injury. Unapproved repairs or modifications will void warranty and eliminate manufacturer of any liability claims. Consult the equipment manufacturer!!!

Each machine is shipped with a manual, a customer's check sheet on the product, and any available parts & service manuals on component parts not produced by this manufacturer. Additional copies of these manuals and check sheets can be purchased from the manufacturer, or through the dealer. Engine parts, service and maintenance manuals **MUST** be purchased through the engine manufacturer or their dealer.

NOTICE

The producer of this Bandit product reserves the right to make any modifications or revisions to the design or specifications of its machine without advance notice. The producer also reserves the right to change machine and part prices as needed without advance notice.

BANDIT INDUSTRIES, INC.

EXPLANATION OF LIMITED WARRANTY

The manufacturer will not reimburse the customer or dealer labor costs incurred for installing “bolt-on” or “slip-on” items, such as hydraulic pumps and motors, control valves, flow dividers, belts, sheaves, etc. The manufacturer will provide replacement parts to the customer for defective parts during the warranty period. **Defective parts must be returned to Bandit Industries, Inc.** It will be the customer’s responsibility to install the replacement parts unless arrangements are made with the selling dealer.

The manufacturer will not reimburse travel costs to servicing dealer unless prior approval has been obtained from the manufacturer. It is the customer’s responsibility to deliver the machine to dealer’s service facility, unless other arrangements have been agreed to between selling dealer and customer.

The manufacturer may elect, at its discretion, to reimburse reasonable labor costs to customer or dealer for major defect repairs. Diagnostic labor and overtime labor will not be covered under warranty. Prior approval must be obtained from Bandit Industries, Inc.

There are several forms that must be completely filled out and returned to us in reference to our portion of warranty. Read and understand the Bandit Limited Warranty responsibilities. Some components on your machine are covered by their respective manufacturers and cannot be handled through Bandit Industries as stated in Warranty Section of this manual.

Use this manual to help you resolve what and where your problem is, in most cases you can fix it easily. If you still have problems, work through the dealer you purchased the machine through, or contact Bandit Industries direct if needed.

Make sure the following forms are used, for us as well as you, to keep track of service and pending warranty request. It is our company policy that all parts shipped out will be invoiced until the possible warranty parts are returned with a Warranty Claim Form completed for consideration.

Make sure the Warranty Validation Form is completed and sent in to us as soon as you receive the Bandit. This will activate our warranty responsibilities.

If Warranty Validation Form is not on file, all Warranty consideration is null and void.

NOTICE

Prior to delivery to final owner and during storage, this machine must be serviced and lubricated to avoid damage that will not be covered under warranty, see “Lubrication & Coolant” page.

Also, damage or premature failure of equipment components because of incorrect or incomplete service and maintenance by the equipment owner will not be covered under warranty.

All controls, safety devices, guards, and shields must be correctly operational and securely in place at all times during equipment operation.

Copyright 1/10

BANDIT INDUSTRIES INC. LIMITED WARRANTY
(989) 561-2270

Bandit Industries Inc., also referred to as “Manufacturer” warrants this new product to be free of defects in workmanship and material for a period of 1 year or 2000 operating hours, which ever comes first.

This warranty takes effect upon delivery to the original retail purchaser. The manufacturer at it’s option will replace or repair at a point designated by the manufacturer, any parts which appear to have been defective in material or workmanship. The manufacturer is not responsible for labor, consequential damages, traveling or down time expenses.

This warranty and any possible liability of Bandit Industries Inc., is expressly in lieu of any other warranties, expressed or implied, including but not limited to, any implied warranty or merchantability of fitness for a particular purpose and of any noncontractual liabilities including product liabilities based upon negligence or strict liability. Bandit Industries Inc., will not be liable for consequential damages resulting from breach of warranty.

All parties involved agree that the Owner’s Sole and Exclusive Remedy against the Manufacturer, whether in contract or arising out of this warranty, instructions, representations, or defects shall only be for the replacement or repair of defective parts as provided herein. In no event or circumstances shall the Manufacturer’s liability exceed the purchase price of the machine. The buyer also agrees that no other remedy (including but not limited to consequential or incidental loss) shall be available to him or her.

It is absolutely necessary to return the Warranty Validation Form, completely and accurately filled out, and notify Bandit Industries Inc., in writing within ten (10) days from the date of purchase to validate this warranty. If Warranty Validation Form is not on file, all Warranty Consideration is NULL AND VOID.

This warranty will <u>not</u> apply if the Bandit Chipper is not operated with replacement parts or equipment <u>not</u> manufactured or recommended by Bandit Industries, Inc.

This warranty will not apply if the Bandit Chipper is not operated in a manner recommended by the manufacturer. The following examples would void the warranty:

1. The completed Warranty Validation Form is not on file.
2. The Bandit Chipper has been abused, or not serviced properly.
3. Repairs or attempted repairs made without prior written authorization.
4. Repairs made due to normal wear are not warrantable.
5. The Chipper was involved in, or damaged by an accident.
6. The Chipper was damaged from any type of foreign material.

The owner is responsible for all scheduled maintenance as explained in the Operators Manuals. Negligence of proper maintenance or any other negligence, accident or fire; nor with failure to adjust, tighten, or replace wear items included but not limited to items such as knives, knife anvil, belts, lubrication fluids, bearings, filters, hydraulic components, loose nuts or bolts, etc. may void warranty.

All components and parts being returned to Bandit Industries for warranty consideration must be complete and assembled when delivered. Hydraulic components and parts must be returned assembled with all fluid ports capped or plugged and free of foreign contamination, or warranty will not be considered.

BANDIT INDUSTRIES, INC. LIMITED WARRANTY
(989) 561-2270

NOTICE This warranty applies only to new and unused equipment or parts thereof manufactured by Bandit Industries Inc. and is void if the machine is operated with replacement parts or equipment not manufactured or recommended by Bandit Industries Inc.

All other components are warranted by their respective manufacturers (i.e. engines, axles, hydraulic pumps and motors, clutches, tires, batteries, etc.) Any machines used for lease or rental purposes warranty is limited to 90 days from the first day of initial service.

NOTICE **Clutch maintenance and adjustments and engine maintenance (air filter maintenance, oil changes, oil filter maintenance, etc.) are important to your machine. Refer to the clutch or engine manual for the maintenance schedule. Failure to perform the clutch or engine maintenance will void the warranty with the respective manufacturer, Bandit Industries Inc. does not warranty these components!**

CONTINENTAL U.S. INFORMATION PHONE NUMBERS FOR ACCESSORIES (NOT COVERED UNDER PRODUCT WARRANTY PROGRAM)

Briggs & Stratton (Vanguard) Engines	1-414-259-5333	PGL Auto Clutch	1-800-551-2938
Caterpillar Engines (Thru 275Hp)	1-800-551-2938	PT Tech Clutch	1-330-414-3172
Caterpillar Engines (300Hp & Up)	1-866-228-2111	NACD, Rockford Clutch	1-800-383-9204
Continental Engines	1-800-726-8870	Twin Disc Clutch	1-262-638-4000
Cummins Engines	1-248-573-1592	Electronic Solutions	1-866-736-6839
Deutz, Lombardini Engines	1-800-445-5273	I.E.C. (formerly E.S.I.)	1-815-985-0383
Ford, Hatz Engines	1-800-726-8870	L.O.R. MFG.	1-866-644-8622
GM, Perkins Engines	1-800-551-2938	Miratron Inc.	1-866-285-0132
Honda Engines	1-734-453-6258	Omnex Radios	1-419-294-4985
John Deere Engines	1-888-803-9175	Dexter Axles	1-574-295-7888
Kohler Engines	1-800-854-9273	Tires	1-989-463-4088
Kubota Engines	1-800-457-7056	Caterpillar Tracks	1-309-636-1100
Robin Engines	1-248-399-0002	Chermack Tracks	1-715-458-2655
Wisconsin Engines	1-800-726-8870	Petro-Canada Hydrex XV	1-888-284-4572
Interstate Batteries	1-800-331-2000		

(Phone numbers for outside the continental U.S. can be supplied from your phone directory or local Bandit dealer.)

In order to process any warranty claims, it is the owner's responsibility to report the claims promptly to the Manufacturer, or our authorized dealer from whom the equipment was purchased.

It is necessary to include the following information on any and all requests for warranty:

1) Warranty Claim Form, obtained from Bandit Industries or it's dealers, completely and accurately filled out.
2) Dealer from whom purchased.
3) Date of delivery.
4) Serial number of unit.
5) Model number of unit.
6) Engine make and serial number.
7) Length of time in use (hours on machine).
8) Date of Failure.
9) Nature of Failure.

Bandit Industries Inc., reserves the right to alter, improve, revise or modify any parts or products with the altered, improved, revised or modified parts or products. They also may change design, specifications, or part prices without advance notice.

Bandit Industries Inc., is NOT responsible for updating or upgrading completed machines with design changes that are made after it's production.

Bandit Industries Inc., expects the Customer/Owner to bring their machine to the Dealer/Manufacturer for Warranty Repairs. The Manufacturer DOES NOT pay Dealers or Customers for bringing their machine in for repair. Nor does the Manufacturer furnish loaner machines while the unit is being repaired.

TYPICAL CHIPPER SERIAL NUMBER AND/OR WORK ORDER NUMBER LOCATIONS



1. Beltshield
2. Hinged chipper hood under handle (95 only)
3. Top of throat
4. Tongue and a-frame side
5. Top of frame
6. W/O # on top of tongue

NOTICE The engine information is located on the engine block. The clutch information is located on the clutch plate (if equipped).

SAFETY PROCEDURES

⚠ DANGER

The words ⚠ Danger, ⚠ Warning, ⚠ Caution, and Notice are used on the safety decals and throughout this manual, to make you aware of the safety procedures. These procedures are very important, read and obey them.

YOUR SAFETY IS VERY IMPORTANT TO US!

This machine is equipped with safety decals, guards and designs for your protection.

Don't ever take the machine for granted, always be cautious and careful when operating your equipment.

Read and follow all the instructions in your manual thoroughly. Your safety is dependent on your knowledge of how to operate and maintain this machine. You may obtain additional copies of this manual from your Bandit Dealer.

Before operating machine, you must have all potential operators; read and understand manuals and decals, watch the video and follow the recommendations.

Regardless of how hard a manufacturer tries to produce a safe machine, accidents still happen. Normally accidents are caused by people making mistakes. They do not read the manual, they ignore warning decals or do not use lockouts provided for their safety. This normally happens after the person has become accustomed to the machinery. In the initial start up and operation of the machinery, they are cautious, they are very careful because they do not understand the machine.

This equipment is intended for use by personnel who are experienced with similar equipment. Always operate safely. There should be at least two qualified and trained operators at the work site. They should be positioned in safe working locations, following safety procedures and instructions, and aware of each others whereabouts. There should, also, be at least two people on site during maintenance and service procedures in case an accident should occur. Never operate any machine while under the influence of drugs or alcohol.

Keep children, bystanders and animals clear of working area. Never operate equipment that is in need of repair or adjustment.

CALIFORNIA

Proposition 65 Warning

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

⚠ DANGER

Before starting the machine, take a minute to check a few things. The machine should be in an area restricted from people passing by. This area around the machine must be free of all objects that can obstruct your movement when working with the machine. The machine should be checked for loose tools or foreign objects, especially in the infeed hopper area. All tools not in use should be secured in a tool box.

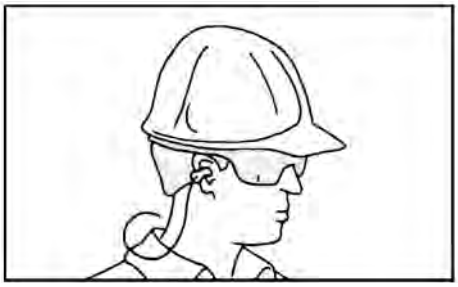
⚠ WARNING

Operators **must** at all times be located within easy reach of all feed control and shut-off devices when the unit is running. They must be attentive and prepared to activate the devices.

⚠ DANGER

Torn or loose clothing is more likely to get caught in moving machinery parts or tree branches. Keep such items as long hair, shirt sleeves, and shirt tails properly contained. Avoid wearing necklaces, rings, watches, and especially neckties while operating this machinery. Make sure the machine is in excellent condition, and all the guards are in place, tight and secure.

Wear all personal protection equipment and follow all safety standards per ANSI and OSHA instructions. Examples of equipment: hard hat, face shield, safety glasses, gloves, ear protection, etc. Do not wear gauntlet or secured fit gloves. Always keep a fully charged fire extinguisher with the machine while operating or servicing the machine.



NOTICE

Striped reflective tape has been installed on the feed control handle of the machine. This tape is reflective, self adhesive and has contrasting colors. The tape helps make the feed control handle stand out more and it makes the rear of the machine more visible to a vehicle behind the machine while transporting. Striped tape can be obtained through your local Bandit Dealer.

SAFETY PROCEDURES

⚠ DANGER

NEVER sit, stand, lay, climb or ride anywhere on this machine while it is running, operating, or in transit. You will be injured.

⚠ DANGER

Pay attention to the direction of the discharge chute before chipping. Never stand in front of the chipper discharge chute. Never direct the chute towards anyone or anything that could cause an accident or problems. Always stop chipping and warn anyone that comes near the discharge area. Failure to do this could result in severe injury. Wood chips flying out of the discharge chute can be very dangerous!

⚠ WARNING

It is very important after you have operated a new machine for approximately an hour to shut down the machine and recheck all nuts and bolts. It is normal for nuts and bolts to loosen once on a new piece of machinery. If you tighten them now, there is a good possibility they won't loosen again. Certain nuts and bolts should be checked periodically such as anvil and knife nuts and bolts, etc. for torque and fit.

Most of the nuts used on the machine are self locking. After a nut or bolt has been removed five times, it should be replaced to insure proper tightness. This is especially critical on the chipper knife nuts and bolts!

After the engine is started, let the chipper disc/drum turn at the lowest RPM's possible. Listen for any type of noise that is foreign. Any steel on steel noise is foreign. If you hear a noise, stop the engine, find the problem and fix it.

⚠ WARNING

It is very important after you have operated a new machine for approximately an hour to shut down the machine and recheck all hydraulic fittings. Retighten as needed.

DO NOT GO NEAR HYDRAULIC LEAKS! High pressure oil easily punctures skin causing serious injury, gangrene, or death. Avoid burns from fluid. Hot fluid under pressure can cause severe burns. DO NOT use fingers or skin to check for leaks. Lower load or relieve hydraulic pressure before loosening fittings. Relieve all pressure in the system before disconnecting the lines, hoses, or performing other work. Use a piece of cardboard to find leaks. Never use your bare hands. Allow system to cool down to ambient temperature before opening any coolant or hydraulic oil system.

In cold weather situations let your hydraulic system idle for approximately 15 minutes to allow the system to warm up to operating temperature.

⚠ DANGER

Never reach into the infeed hopper area of the machine, there is never any reason to. The feedwheel(s) are designed to pull trees and brush of any length into the machine. Pulling a hand, arm, foot or entire body through the machine is much easier than pulling a tree. Do not think you will be able to pull yourself free of the feedwheel(s), they will not let go. There is absolutely no reason to work inside of the infeed hopper. If the feedwheel(s) become tangled or clogged, stop the machine and wait several minutes before cleaning them out. If there are short pieces, or leaves and twigs, just leave them until feeding longer pieces. While the long pieces are feeding, simply toss the short pieces on top of them. The longer pieces will take them on into the machine.

A wooden push paddle has been provided to assist in feeding smaller material. It is the owner's and operator's responsibility to use and keep a wooden push paddle with the machine and to also secure it when transporting the machine. DO NOT use any body parts or any steel devices inside the infeed hopper area.

If there is larger diameter wood, try to feed it with smaller diameter wood. Start a small diameter limb which will partially open the feedwheel(s). Once the feedwheel(s) are partially open it is much easier to insert the larger diameter wood.

When feeding larger diameter wood, listen for the engine to possibly lug down. If it starts lugging down stop the feedwheel(s) by pushing the hydraulic control bar to off, and let the engine recover to full speed. If the machine is equipped with Autofeed and it is functioning properly, the feed system will automatically stop to let the engine recover. This will help stop the machine from plugging the discharge chute.

NOTICE

Do not attempt to start the engine or engage the engine PTO (power-take-off) system on this machine if the chipper disc/drum is jammed or frozen in place. If you do, you will damage or ruin the drive belts and/or the PTO which will not be covered under warranty and will cost you down time and money.

⚠ WARNING

This chipper is designed to "HAND FED" only! DO NOT feed wood with any type of knuckle boom loader, front end loader, or mechanical device. It will cause damage to the machine. If this happens, the machine WILL NOT be covered under warranty.

SAFETY PROCEDURES

⚠ DANGER

Avoid moving parts. Keep hands, feet, and clothing away from power driven parts. Keep all guards and shields in place and properly secured.

⚠ DANGER

Never feed any materials that might contain wires, stones, nails, metal objects, or any foreign object which may damage the knives and become dangerous projectiles.

⚠ DANGER

DO NOT feed vines or vine-like material! DO NOT pile vines or vine-like material in front of the infeed hopper which may cause you to trip or fall! DO NOT allow vines or limbs to become entangled with you or your clothing! DO cut vine-like material into 4 to 5 foot (1.2 to 1.5 meter) length's, away from the chipper area! DO stop the feed system before feeding the cut vine-like material into the infeed hopper! DO use a wooden pusher paddle when feeding the cut vines into the feedwheel(s)! ALWAYS be in position and prepared to activate the feed control handle!

⚠ DANGER

DO NOT operate this machine indoors! Exhaust fumes can be fatal. Never refuel while the machine is running. Never refuel in the shop or building. Always refuel in a well ventilated area, away from sparks or open flames, DO NOT SMOKE. Extinguish all smoking materials. Wipe up all spilled fuel before restarting the engine. Do not fill above 1/2" (12.7mm) from top of tank.

To obtain the most from your machine, for the least amount of cost, it is a good practice to set up and follow a scheduled preventative maintenance program. It will eliminate many possible problems and down time.

⚠ WARNING

Never use jumper cables during freezing temperatures. Tow the machine inside and allow the battery time to warm up. If the machine must be started outside, inspect the battery acid for ice formation. Explosion will occur with a frozen battery. If the machine is going to be operated in excessively cold conditions, a larger cold cranking amp battery may be needed to insure proper and prompt starting. Never use jumper cables in a confined or unventilated area. Battery acid fumes are explosive. Battery acid can cause severe burns. Never expose an open flame or spark near the battery. Keep all burning materials away from the battery. When servicing the battery, shield eyes and face, and do not smoke. Service in a well ventilated area.

⚠ DANGER

Keep the machine in good condition. Be sure the machine is in good operating condition and that all safety devices, including guards and shields are installed and functioning properly. Visually inspect the machine daily before starting the machine. Refer to the "Daily Start Up & Maintenance". Make no modifications to your equipment unless specifically recommended or requested by Bandit Industries Inc.

⚠ DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the chipper disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession.

ALWAYS install the disc/drum lock pin to prevent inadvertent rotation. On disc chippers insert lock pin through lock pin tube on the belly band under hood rest. On drum chippers insert lock pin through lock pin tube on side of drum housing.

Simply slide the lock pin into the disc/drum lock tube. This is to insure that the chipper disc/drum cannot be started while you are working inside the machine. If for some reason the chipper disc/drum would start to turn, it would simply hit the lock pin.

⚠ DANGER

DO NOT remove the hood pin until the chipper disc/drum has came to a complete stop. The chipper disc/drum will coast for several minutes after the engine is shut down. Always wait at least several minutes.

DO NOT operate this machine without the Hood Pin in place. Do not operate the machine with any type of makeshift hood pin or an improperly installed hood pin! The Hood Pin MUST be padlocked.

DO NOT operate the machine with the chipper hood open under any circumstances.

⚠ DANGER

The patented "Last Chance Stop" is a means of stopping/reversing the feedwheels if a negligent operator does not follow the safety rules and finds themselves in trouble! DO NOT RELY ON THE "LAST CHANCE STOP" TO DISOBEY THE OPERATOR RULES! The "Last Chance Stop" does nothing for the foolish operator who kicks into the infeed hopper area.

With engine shut off and all moving parts stopped, DAILY pull last chance cables to ensure they freely disengage and reverse feed wheel hydraulic valve.

SAFETY PROCEDURES

⚠ WARNING

The machine was built with a chipper hood engine disable plug which disables the engine if it is not installed properly with the hood pin holding the chipper hood in the closed position. Correctly installed and maintained, the engine will not start or it will shut off if the chipper hood engine disable plug is disconnected. The chipper hood must NEVER be opened, or pushed closed if the chipper disc/drum is turning.

⚠ DANGER

DO NOT slam the chipper hood to the open position. This will cause damage to the hinge. If your hinge has become damaged by slamming the hood to the open position, Replace The Hinge Immediately! If the hinge has become damaged it will cause misalignment of the hood, the chipper disc/drum may then hit the hood and cause a serious accident! Lubricate the hood hinge daily.

⚠ DANGER

Never turn the chipper disc/drum by hand, always carefully use a pry bar or wood bar. This will help prevent the person turning the disc/drum from being injured should the disc/drum break loose.

A sight hole in the chipper beltshield has been provided. If chipper belts are moving do not open chipper hood. Do not stick fingers in sight hole.

⚠ DANGER

Do not work inside the mouth of the chipper or around the feedwheel(s), until you have installed the yoke lock pin completely and securely to help keep the top feedwheel in the raised position. Remove top wheel springs if equipped, block and chain top wheel up before doing any work inside throat.

⚠ WARNING

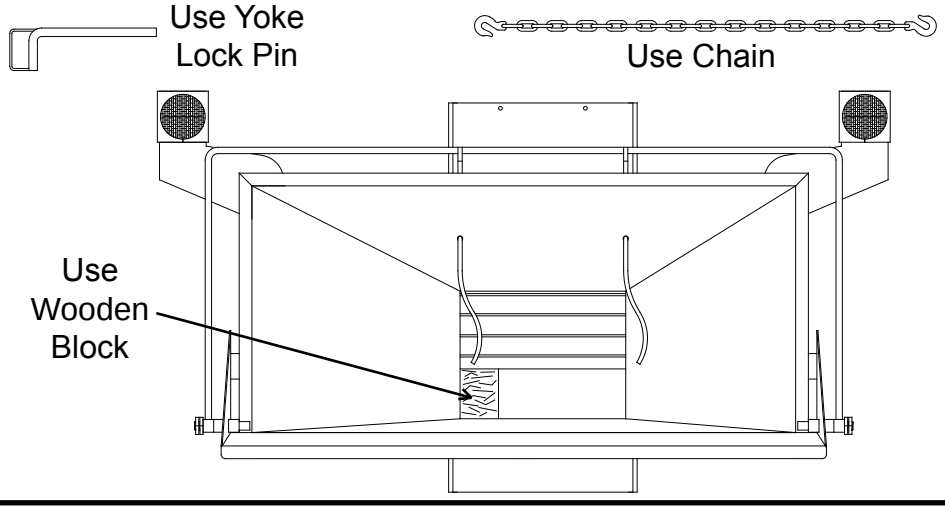
DO NOT operate this machine unless all hydraulic control devises operate properly. They must function, shift and position smoothly and accurately at all times. Faulty controls can cause personal injury!

⚠ DANGER

Do not work on the machine if the engine is running with the clutch disengaged. A clutch can self engage if either the pilot or throw-out bearing happens to seize to the main output shaft.

There are various types of clutches (PTO's) available for this type of equipment. Make sure to study the original clutch manufacturer's manual that is provided with the machine and follow its instructions for operation, service, and adjustments. Some styles require clutch engagement to be maintained so that it takes a lot of force, others will require very little force, and some are push button, electric, manual lever, or hydraulic activation. Each different style clutch (PTO) is a very expensive item that will fail if not correctly maintained and adjusted. It will be quite costly if a few minutes are not taken daily, weekly, and monthly to keep the clutch serviced as required.

The operator must take care in the engagement and disengagement of the clutch, engine RPM should always be below 1000 RPM. When the engine has sufficiently warmed up, bump the clutch handle against engagement to start the chipper disc/drum turning. This will have to be repeated until the chipper disc/drum is turning at proper ratio with engine RPM. Then push the handle all the way in gear until it locks into position securely. After engagement raise engine RPM to full throttle. Engaging and disengaging the clutch at high engine RPM will quickly and excessively wear out clutch plates as well as bearings. Refer to clutch manufacturer's manual for proper service and operation.

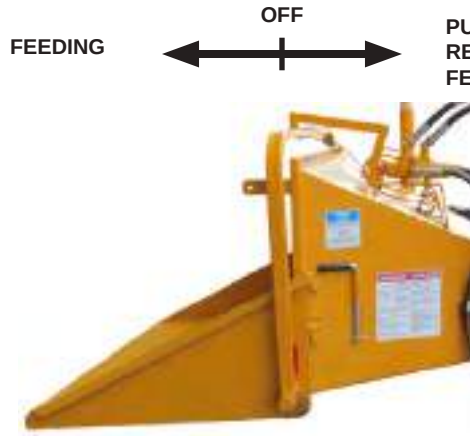


SAFETY PROCEDURES

⚠WARNING

The ANSI required control bar is designed to reverse the feedwheels when pushed. Check the direction and proper operation of the control bar before operating the chipper.

CORRECT OPERATION OF FEED CONTROL BAR



⚠WARNING

EXPLOSION HAZARD: Ultra low sulfur diesel (ULSD) poses a greater static ignition hazard than earlier diesel formulations with higher sulfur content. Avoid death or serious injury from fire or explosion; consult with your fuel or fuel system supplier to ensure the delivery system is in compliance with fueling standards for proper grounding and bonding practices.



⚠DANGER

Before opening or closing the feedwheel trap door: disengage clutch, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession. In the event that dirty material is being run through the chipper the feedwheel trap door can be opened.

⚠DANGER

If the discharge or hood need to be removed, always use some sort of mechanical device like an overhead hoist, loader, lift truck, etc. that is rated for lifting that component. Follow all OSHA instructions for lifting.

SAFETY PROCEDURES

⚠WARNING

CLEAN MACHINE OF ALL DEBRIS! DO NOT leave this machine unattended until all potential fire debris is removed, no fire or smoldering exists, and hot spots are cold. The engine creates many hot spots including: exhaust manifold, exhaust, turbo (if equipped), etc. Remove all flammable debris such as wood, chips, leaves, oils, fuels, etc. from engine exhaust, engine turbo (if equipped), beside, around, and under engine, around and under tanks, inside belt shields and guards, inside battery and tool boxes, inside cabinets (if equipped), and anywhere materials collect. ALWAYS keep several type A:B:C fire extinguishers operational and on the job at all times.

⚠WARNING 

Operation of this equipment may create sparks that can start fires around dry vegetation. A spark arrester may be required. The operator should contact local fire agencies for laws or regulations relating to fire prevention requirements.

NOTICE

The Bandit has only been run for a short time to test proper hydraulic pressures, possible leaks, etc. The fuel tank will be empty. Fuel is provided through a small auxiliary tank for testing. This immensely helps maintain safety in our manufacturing facility and while shipping.

NOTICE

Expensive damage to the Bandit will occur if proper preparation is not taken before welding on the machine. Be sure to disconnect both battery cables and the engine ECM (engine control module) before welding. Follow the specific Engine MFG. instructions for proper welding and grounding procedures, before attempting to weld on the machine. If welding on the machine, do not ground the welder through the machine bearings, ground near work to be performed.

⚠DANGER

Brush being fed into the chipper infeed hopper can snag an extended winch line. The knives on the spinning disc/drum can grab and pull in the winch line at a high rate of speed resulting in serious injury or death to workers nearby.

⚠DANGER

The winch line is under tension at times and could suddenly release, snapping back into the operator causing serious injury or death.

⚠DANGER

Never operate the hydraulic winch with the wood chipper detached from the towing vehicle. The load may move the wood chipper or pull the tongue off the support blocking.

⚠DANGER

Climbers' ropes and other lines present at the work site can become entangled in brush being fed into the chipper. The knives on the spinning disc/drum can grab and pull in ropes at a high rate of speed resulting in serious injury or death to workers nearby.

⚠DANGER

Most winch lines contain a metal hook at the end. If the metal hook enters the infeed hopper, it could be ejected out of the discharge chute at a high rate of speed causing serious injury or death.

⚠DANGER

Make sure there is outbound tension on the winch line whenever the winch line is being powered out. Using the hydraulic control to power out the winch line rather than free spool the line out could result in the line becoming tangled around the spool and wind inward when the hydraulic lever is in the unwind position. If a worker is holding the winch line when this happens a potential nip point is created between the cable housing and hook and also the winch line and material.

⚠DANGER

Never reach into the winch or winch roller area.

OPERATING & PARTS MANUAL SUPPLEMENT

KEEP WITH YOUR OPERATING & PARTS MANUAL

PROPER MAINTENANCE AND USE OF BOTTOM CLEAN-OUT DOOR

⚠DANGER

There is never any reason to open the bottom clean-out door while the chipper is in operation. Opening and closing the bottom clean-out door should always be done after the chipper has been turned off and the feedwheels have stopped turning. The ignition key should be removed and in the operator's possession.

Never reach or kick underneath the chipper in the area of the feedwheel clean-out door. If your hand or foot comes into contact with the bottom feedwheel, serious injury could occur. Always turn off the chipper and make sure the feedwheels have stopped turning before performing any maintenance in the bottom clean-out door.

There is never any need to remove debris that collects underneath the chipper while the chipper is in operation. Make sure the chipper engine is off and the feedwheels have stopped turning before cleaning any debris from underneath the chipper, or simply move the chipper to assist with cleaning debris from underneath it.

The bottom clean-out door is located directly underneath the feedwheels. It is hinged to the chipper and can be secured in a closed position with spring-loaded pins. When the door is in the closed position, access is restricted to the bottom feedwheel from underneath the chipper. When in the closed position, the door keeps debris from piling on the ground. The door can be opened to perform maintenance to the bottom feedwheel or to assist with unclogging, should vine-like material become wrapped around the bottom feedwheel.

During chipping operations, the bottom clean-out door should be closed. It is intended to be open ONLY when materials that need to be placed into the chipper contain muddy gravel or rocks. If possible you should try to remove all gravel, mud, and rocks from the brush before feeding it into the chipper. By opening the bottom clean-out door, mud, and rocks are allowed to drop down onto the surface below, preventing damage to the knives and discharge chute which can cause damage to the chipper, as well as serious risk of injury. Stray rocks and gravel may damage or break the knives. Rocks and broken knives will be propelled out through the discharge chute, which could cause injury to anyone in the vicinity.

Never transport the chipper with the bottom clean-out door in the open position because it subjects the door to physical abuse and damage during transportation. This can damage the hinge and prevent the door from being properly closed during operation.

Once the bottom clean-out door has been opened to perform maintenance or prevent debris from damaging the chipper, the door should always be closed before continuing operations.

SAFETY PROCEDURES FOR OPERATING OPTIONAL HYDRAULIC WINCH

This Notice describes important safety information for all Brush Bandit wood chipper owners and operators. The information below is meant to provide you with notice of a potentially dangerous situation that can and should be avoided.

Everyone working around wood chippers should be well-trained to understand that ropes and cables commonly used at the job site can inadvertently be pulled into the chipper while feeding brush. This includes the cable on the optional hydraulic winch attached to the top of the infeed hopper. When the winch line is extended, the opportunity exists for brush or workers to become entangled in the winch line. Never place yourself between the brush and winch line. Feeding brush with the winch line extended or when other ropes are in the area of the infeed hopper can result in the line becoming entangled in the brush being fed into the chipper. If this happens, the winch line or rope will be pulled into the chipper. If any rope or cable becomes caught in the spinning knives, it could be pulled into the chipper at a high rate of speed and when a worker is in its path, there is little or no opportunity to avoid it. The result is serious injury or death.

Chipper owners and operators should not feed brush into the chipper while the winch line is extended. The intended use of the winch is to assist the operator in pulling large tree limbs to the wood chipper feedwheels without having to lift and carry. Never pull out the winch line while brush or limbs are feeding into the chipper. When you are not using the winch, ensure that it is retracted and stowed so that it cannot become tangled in brush and pulled into the chipper.

Make sure there is outbound tension on the winch line whenever the winch line is being powered out. Using the hydraulic control to power out the winch line rather than free spool the line out could result in the line becoming tangled around the spool and wind inward when the hydraulic lever is in the unwind position. If a worker is holding the winch line when this happens a potential nip point is created between the cable housing and hook and also the winch line and material.

⚠DANGER

Brush being fed into the chipper infeed hopper can snag an extended winch line. The knives on the spinning disc/drum can grab and pull in the winch line at a high rate of speed resulting in serious injury or death to workers nearby.

⚠DANGER

Climbers' ropes and other lines present at the work site can become entangled in brush being fed into the chipper. The knives on the spinning disc/drum can grab and pull in ropes at a high rate of speed resulting in serious injury or death to workers nearby.

⚠DANGER

Never operate the hydraulic winch with the wood chipper detached from the towing vehicle. The load may move the wood chipper or pull the tongue off the support blocking.

⚠DANGER

Never reach into the winch or winch roller area.

⚠DANGER

Most winch lines contain a metal hook at the end. If the metal hook enters the infeed hopper, it could be ejected out of the discharge chute at a high rate of speed causing serious injury or death.

⚠DANGER

Make sure there is outbound tension on the winch line whenever the winch line is being powered out. Using the hydraulic control to power out the winch line rather than free spool the line out could result in the line becoming tangled around the spool and wind inward when the hydraulic lever is in the unwind position. If a worker is holding the winch line when this happens a potential nip point is created between the cable housing and hook and also the winch line and material.

⚠DANGER

The winch line is under tension at times and could suddenly release, snapping back into the operator causing serious injury or death.

⚠DANGER

Follow all winch operating procedures, if not followed severe injury or death can result.

- The intended use of the winch is to assist the operator with pulling large tree limbs to the wood chipper feedwheels without having to lift and carry.
- Pinch point hazards may develop during winching operations. The hydraulic controls are located on the side of the infeed hopper. Operating the winch is a one-man operation. Do not have one person operating the winch hydraulic control with another person operating or holding the winch line. The person holding the winch line could have his hand pinched when another person is operating the winch control.
- Winching large limbs to the wood chipper should be performed by one person.
- Stay clear when winching.
- Do not allow winch line or other ropes to be snagged and pulled into the chipper knives.
- Avoid becoming entangled in the winch line. Never place yourself between the brush and the winch line while using the winch line to pull large tree limbs toward the chipper.
- The metal hook at the end of the winch line entering the wood chipper could result in serious damage to the knives and other internal components causing the potential for injury to operators.
- When you are not using the winch, ensure that it is retracted and stowed so that it can not be pulled into the chipper.
- Never pull out the winch line while brush or limbs are feeding into the chipper.
- Never attach winch line to an installed choker if other limbs are feeding into the machine.
- Brush can snag winch line or climbers' ropes. Knives can grab and pull in line and anything attached to it at a high rate of speed.
- If you are in between the chipper and the winch line that is caught in the knives, the winch line will be pulled in at a very rapid speed and you will not have time to get out of its way. Death or serious injury may result.
- Do not overload the winch. The cable can break or the choker can come off and strike a worker.
- Be aware of the hazards of winch line breakage. Ensure that everyone remains clear of the recoil area in the event of load or cable breakage.
- Pull loads in a manner that avoids angles which could result in tipping or other unintended movement of the chipper and towing vehicle.

SAFETY PROCEDURES

⚠ DANGER

Before using the top feedwheel jack, if equipped, remove the yoke springs. Install the disc/drum lock pin in the mount tube before using hand jack to raise top feedwheel. The hand jack is only provided as a means of lifting the top feedwheel, not holding it up for service.

⚠ DANGER

Always block the tires and the machine tongue whenever the machine is unhooked for operation. DO NOT rely on the tongue jack for operational stabilization.

⚠ WARNING

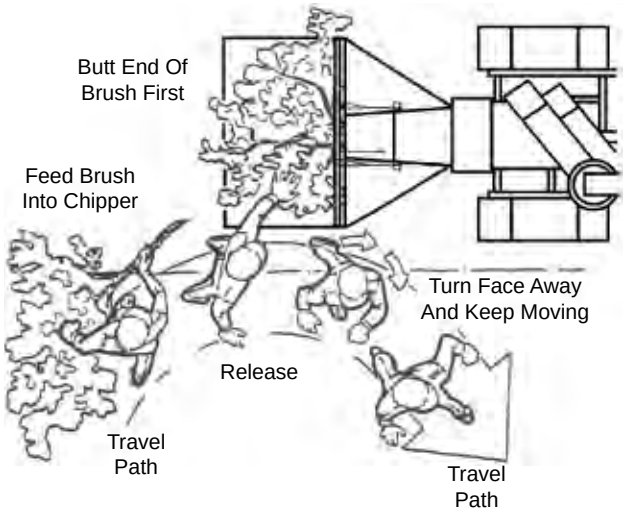
Always stand to the side of the infeed hopper when inserting material. This will allow you to turn away from the wood, and walk away, without passing through the material. Machines should be fed from curbside (right side) whenever possible. Anytime an operator is near the infeed hopper, they must be within easy reach of feed control devices.

To increase production, don't waste time watching the material being fed. Once the limbs have started into the machine, you can walk away and get more material.

Keep the feedwheel tension springs adjusted only tight enough to keep the feedwheel teeth from slipping on the material. DO NOT OVERTIGHTEN! This will overwork the hydraulic system, and make it difficult to feed larger material.

Always start the larger end (base end) of the log, tree or branch into the feedwheel(s) first.

Keep the engine R.P.M.'s at full throttle whether you are chipping brush or round wood. Lower R.P.M.'s will cause weak throwing power, and can cause plugging in the discharge.



NOTICE

Tongue jacks or optional rear stabilizers, whether hydraulic or manually operated are designed to stabilize the machine. The tongue jack or rear stabilizers are not designed to hold the machine off the ground at any time. Install secure blocking and / or chocking as needed. Before transporting the machine, insure the tongue jack and rear stabilizers are fully retracted and secured to the transport position.

⚠ DANGER

The knives must be securely fastened and torqued in position. If one comes loose or breaks during operation, someone or something may get injured.

⚠ DANGER

Chipper knives are sharp and can be dangerous. It is always necessary for your protection to be extra careful and wear proper hand protection when handling knives.

⚠ WARNING

Check laws and regulations. Know and obey all federal, state, and local laws and regulations that apply to your work situation and the transportation of a machine this size.

⚠ WARNING

Before you begin to transport your trailerized machine follow all of the transportation procedures on pages 39-40. Make sure that the tongue has been raised to the proper height and attach the machine securely to the towing vehicle. Once secured to vehicle, locate tongue jack and secure it in the transport position. Always hook safety chains to vehicle by crossing them under the tongue allowing enough slack to avoid binding or dragging the ground when making turns. Check brakes and highway lights make sure that they are all operating properly. Check that the plug terminal functions match the towing vehicle for proper operation. Make sure that the discharge chute is in the transport position pointed over the tongue of machine and the transport bolt is securely in its place. Be sure to check tire pressure before you begin to transport the machine. Close the folding pan, if equipped for the infeed hopper and make sure spring latches are locked into place. If machine is equipped with a vise, make sure to secure in place and clamp jaws closed. Close and secure any of the following, if equipped: tool box, battery box, engine cowl doors and side panels, radiator debris screens, inspection doors, cabinet doors, housing covers, tank caps and covers, etc.

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SAFETY PROCEDURES

IF MACHINE IS EQUIPPED WITH A SELF PROPELLED UNDERCARRIAGE

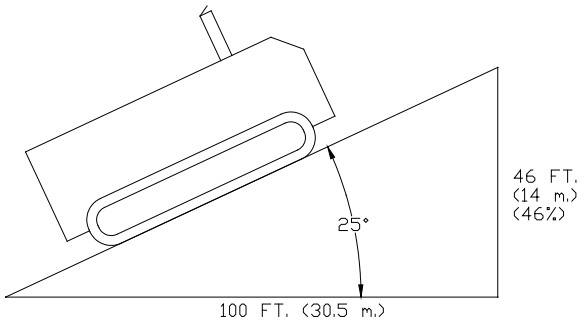
Machines equipped with undercarriage tracks are shipped with a manual from the track manufacturer. Refer to it for service, operation, and safety information.

⚠ WARNING

Do not attempt to operate the machine on an ascending or descending slope of more than 25° or 46% or a side slope of more than 17° or 30%, it is Dangerous and could be Fatal. This is the maximum slope grade the machine can be operated on if the hydraulics, self propelled undercarriage, and engine are running at maximum performance and good traction is sustained.

Maximum Slope Grade

Ascending or Descending Slope



Side Slope

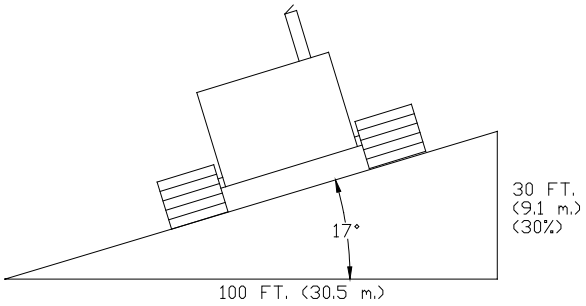


Diagram shows percentage to degree of slope.
Percentage is in vertical feet for every 100 horizontal feet.

⚠ WARNING

Any increase from the specified maximum operating angles may cause loss of lubrication function and damage the engine.

⚠ DANGER

The machine should never be parked on a slope at any time. The machine can coast or creep causing equipment and/or personal injury.

⚠ DANGER

Make sure everyone is clear of machine before moving the machine. Stay clear of undercarriage travel system when the machine is moving.

⚠ DANGER

DO NOT entangle feet or hands in undercarriage travel system.

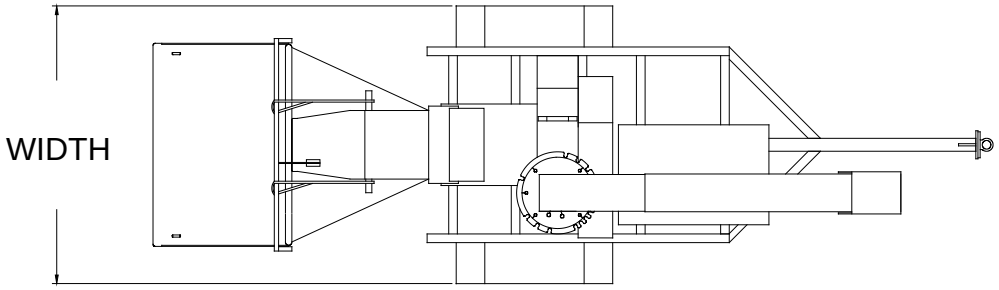
⚠ DANGER

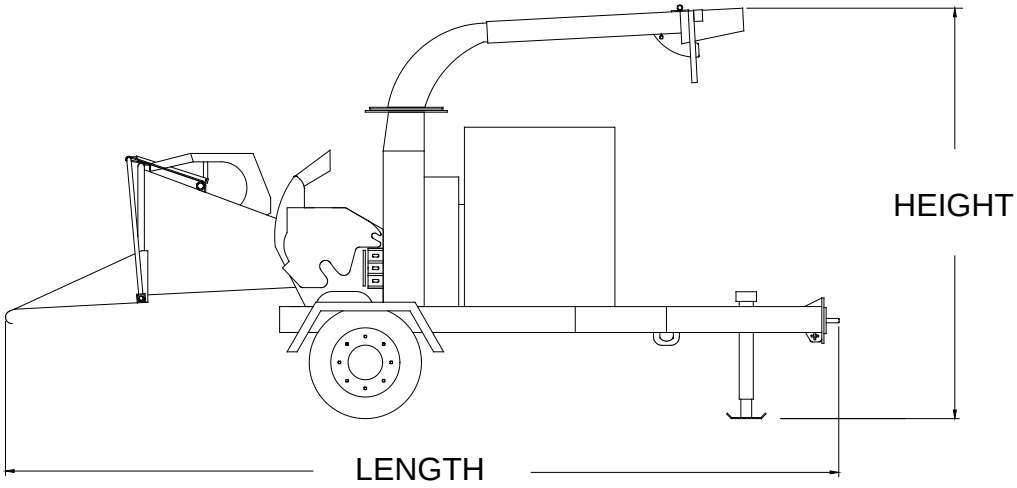
Use **EXTREME CAUTION** when traveling over non-level surface! This machine can tip over or tip backwards on non-level surface. You will cause engine damage, machine damage and possible personal injury!

⚠ DANGER

NEVER sit, stand, lay, climb or ride anywhere on this machine while it is running, operating, or in transit. You will be injured.

EQUIPMENT SPECIFICATIONS





Approximate Dimensions & Weights

(Dimensions & weights will vary depending on optional equipment)

Approx. Weight:	Model 65:	1900	to	2600	lbs. (862 to 1179 kg)
	Model 65 Chip Box:	6700	to	7200	lbs. (3039 to 3266 kg) (Not Shown)
	Model 95:	3800	to	4800	lbs. (1724 to 2177 kg)
	Model 95 Chip Box:	7000	to	7400	lbs. (3175 to 3357 kg) (Not Shown)

(Approximate weights depending on engine and equipment options.)

Overall Dimension:	Model 65:	Height: 7’ 6” (2.3m),	Length: 12’ 10” (3.9m),	Width: 5’ 7” (1.7m)
	Model 65 Chip Box:	Height: 8’ 8” (2.6m),	Length: 21’ 2” (6.5m),	Width: 6’ 6”(2m)(Not Shown)
	Model 95:	Height: 8’ 7” (2.6m),	Length: 16’ 7” (5.1m),	Width: 6’ (1.8m)
	Model 95 Chip Box:	Height: 8’ 8” (2.6m),	Length: 21’ 2” (6.5m),	Width: 6’ 6”(2m)(Not Shown)

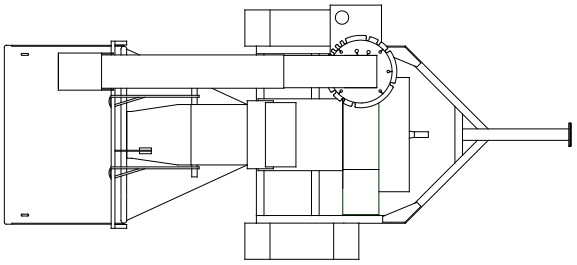
	Model 65	Model 95
Fuel Tank Capacity:	8 Gallons (30 Liters)	24 1/2 Gallons (109 Liters)
Hydraulic Tank Capacity:	7 Gallons (26 Liters)	7 Gallons (26 Liters)

(Approximate dimension depending on equipment options.)

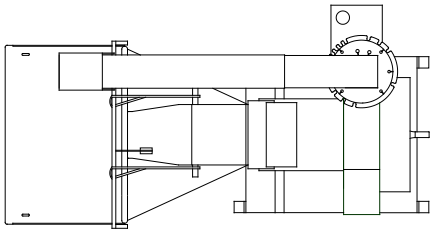
Bandit

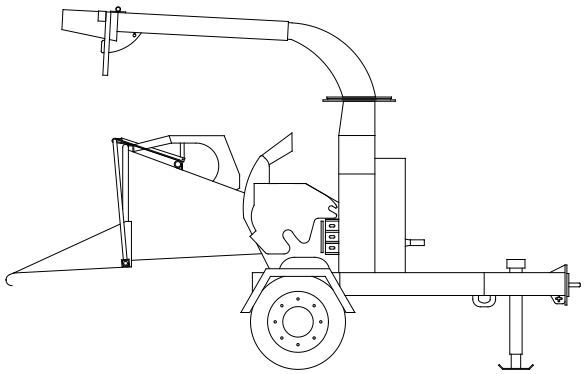
EQUIPMENT SPECIFICATIONS

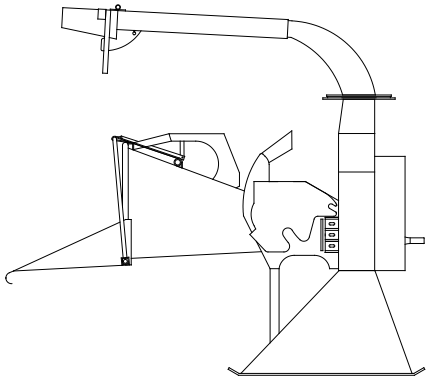
TRAILERIZED



3-POINT







Approximate Dimensions & Weights

(Dimensions & weights will vary depending on optional equipment)

Approx. Weight:	Model 65 PTO 3-POINT:	1550 lbs. (703 kg)
	Model 65 PTO TRAILERIZED:	1900 lbs. (862 kg)
	Model 95 PTO 3-POINT:	2200 lbs. (998 kg)
	Model 95 PTO TRAILERIZED:	2600 lbs. (1179 kg)

(Approximate weights depending on engine and equipment options.)

Overall Dimension:	Model 65 PTO 3-POINT:	Height: 7’ 6” (2.3m),	Length: 8’ 7” (2.6m),	Width:4’ 6” (1.4m)
	Model 65 PTO TRAILERIZED:	Height: 7’ 7” (2.3m),	Length: 10’ 4” (3.1m),	Width:4’ 6” (1.4m)
	Model 95 PTO 3-POINT:	Height: 8’ 9” (2.7m),	Length: 12’ 10” (3.9m),	Width:5’ 7” (1.7m)
	Model 95 PTO TRAILERIZED:	Height: 8’ 7” (2.6m),	Length: 16’ 10” (5.1m),	Width:5’ 7” (1.7m)

	Model 65 PTO	Model 95 PTO
Hydraulic Tank Capacity:	6 Gallons (23 Liters)	8 Gallons (30 Liters)

(Approximate dimension depending on equipment options.)

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DECALS

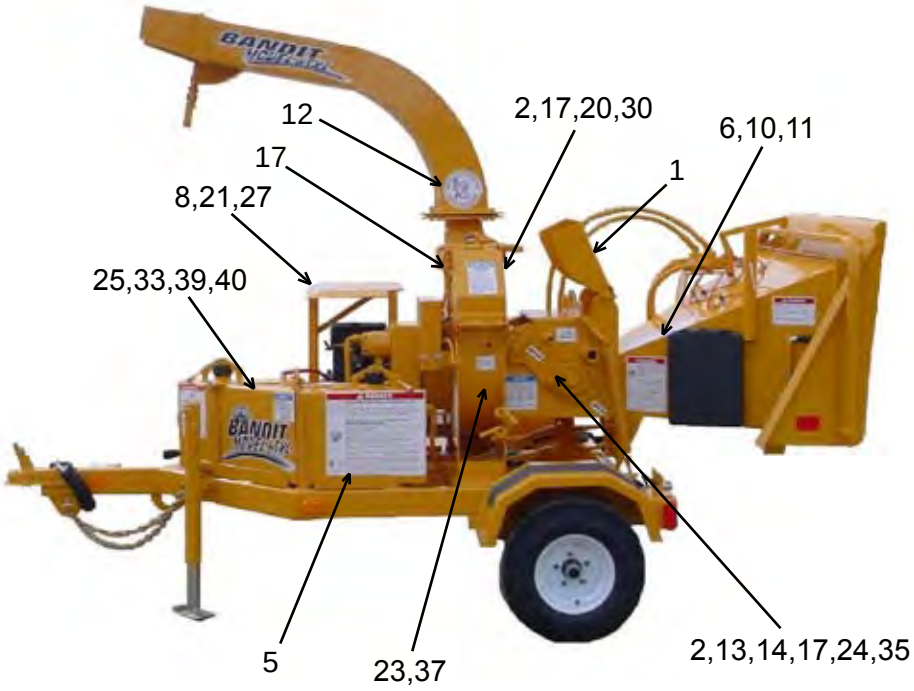


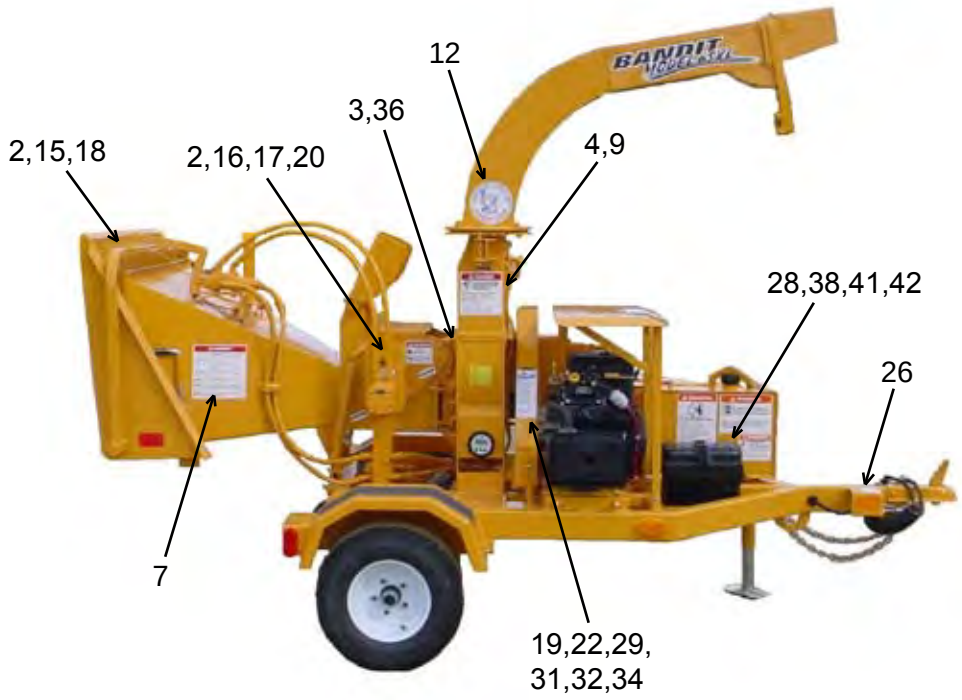


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DECAL LOCATIONS - MODEL 65

Decal locations may vary, these are general locations.





DECAL LOCATIONS - MODEL 65

Modifications and/or additions of decals to this list will happen.
Consult chipper dealer or manufacturer for most current decal package.

LOCATION	NUMBER	DESCRIPTION
1.	SPD-01	Avoid Injury Or Death...
2.	SPD-02	Moving Parts...
3.	SPD-03	Lockout All Energy Sources...
4.	SPD-04	Flying Discharge Material...
5.	SPD-07	Last Chance Stop Cables...
6.	SPD-09	Do Not Work Under Top Feed...
7.	SPD-12	Do Not Feed Vine-Like...
8.	SPD-13	Must Remove Ignition Key...
9.	SPD-28	Do Not Insert Fingers
10.	SPD-30	Do Not Sit, Stand, Lay, Climb...
11.	SPD-34	Brush Chippers Are Very Dangerous...
12.	ID-42	Bandit Industries Inc...USA
13.	INST-02	Yoke Lock Hole
14.	INST-03	Yoke Lock Bar
15.	INST-04	Arrow
16.	INST-11	Motor Coupler Guard...
17.	INST-12	Grease Daily (Arrow)
18.	SPINST-13	Push To Reverse
19.	INST-16	Grease Weekly Arrow
20.	INST-39	Oil Daily Arrow
21.	INST-44	California Proposition 65
22.	INST-46	Autofeed Basic Info...
23.	INST-48	Disc/Drum Lock Tube
24.	INST-49	Disc/Drum Lock Pin
25.	INST-53	Hydraulic Oil...Hydrex XV...
26.	INST-95	Electric Plug-In Schematic
27.	INST-101	Canada Engine Decal
28.	INST-109	Basic Maintenance Check List
29.	INST-130	Push To Start

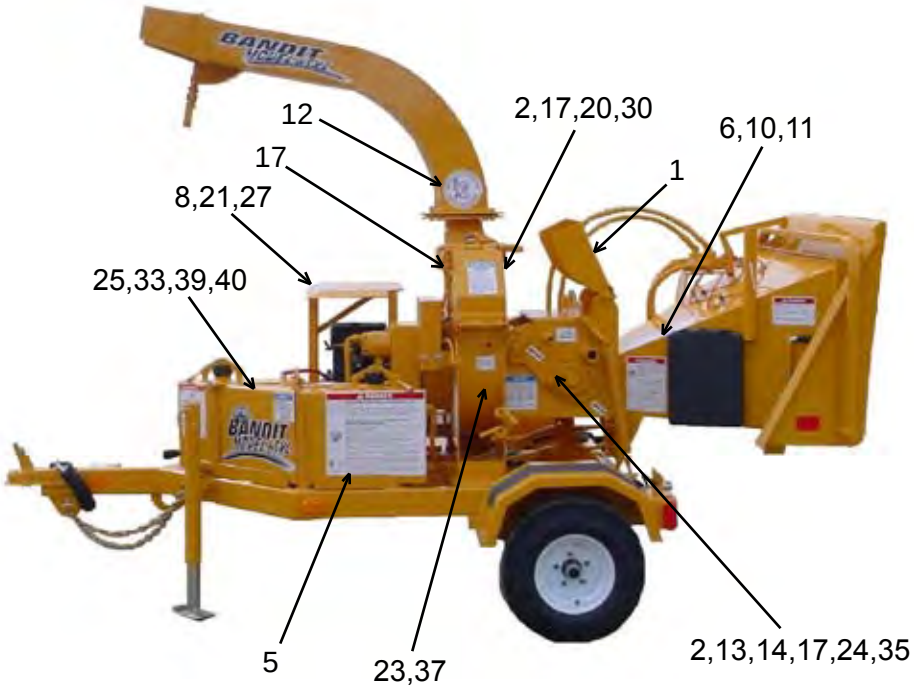
NOTICE

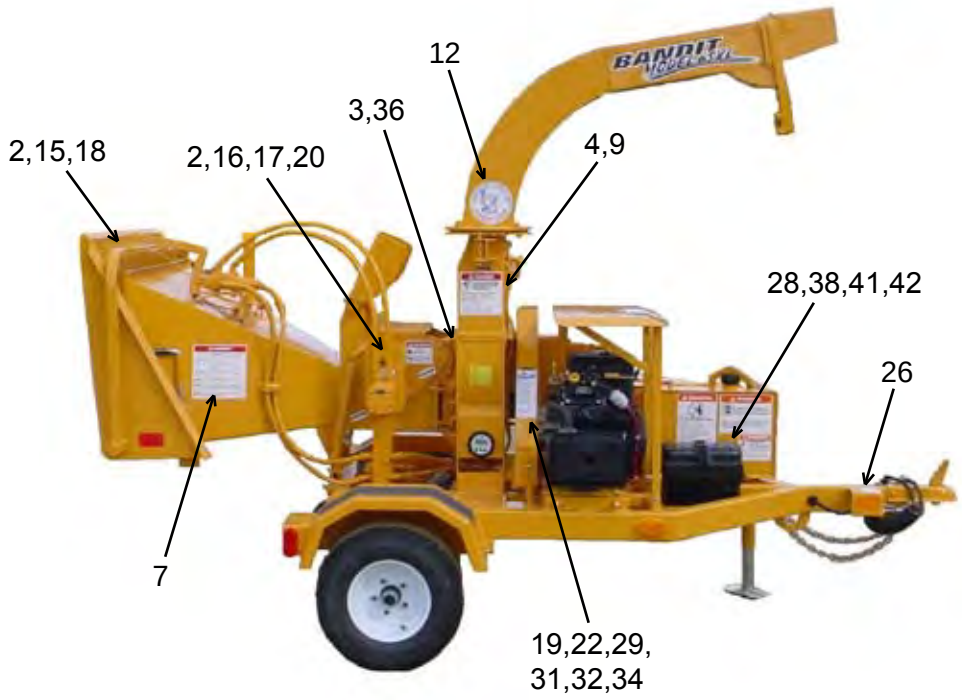
Some decals are for optional equipment. Decal locations may vary, these are general locations.
If any decals become damaged, replace immediately.

Copyright 1/10

DECAL LOCATIONS - MODEL 65

Decal locations may vary, these are general locations.





DECAL LOCATIONS - MODEL 65

Modifications and/or additions of decals to this list will happen.
Consult chipper dealer or manufacturer for most current decal package.

LOCATION	NUMBER	DESCRIPTION
30.	N-02	Maintain Lubrication...
31.	N-03	Service Required Under Beltshield...
32.	N-05	Frequently Adjust...PTO...
33.	SPN-06	Decal Maintenance...
34.	N-07	Clutch Operation...
35.	N-08	Patents...
36.	N-09	Adjustable Feed Speed...
37.	SPN-11	Correct Knife And Hardware...
38.	SPW-01	Do Not Go Near Oil Leaks...
39.	SPW-02	Diesel Fuel Only...
40.	SPW-03	Gasoline Fuel Only...
41.	SPW-04	Frozen Battery Can Explode...
42.	SPW-08	Wear Personal Protection...
43.	900-8900-30	Basic Safety Decal Kit (Options may require additional decals)
44.	900-8900-12	Bandit Model 65 Logo Decal Kit

Additional Decals for Machine Equipped With A Chip Box - Consult dealer or manufacturer for general locations.

45.	SPD-47	Injured...Dump Box
46.	INST-29	Chip Box Lift Up / Down
47.	INST-30	Selector Chip Box / Feed

Additional Decals for Machine Equipped With A Track Undercarriage - Consult dealer or manufacturer for general locations.

48.	SPD-19	...Minimum 10 Feet Away From Tracks...
49.	SPD-38	Do Not Entangle Feet...
50.	INST-135	Remote Starting Procedure
51.	INST-137	Remote / Tether
52.	SPW-06	Do Not Attempt...Slope Of More Than...
53.	SPW-07	Do Not Move Machine...Horn Is Blown...
54.	SPW-11	Do Not Leave Unit Parked On A Slope...

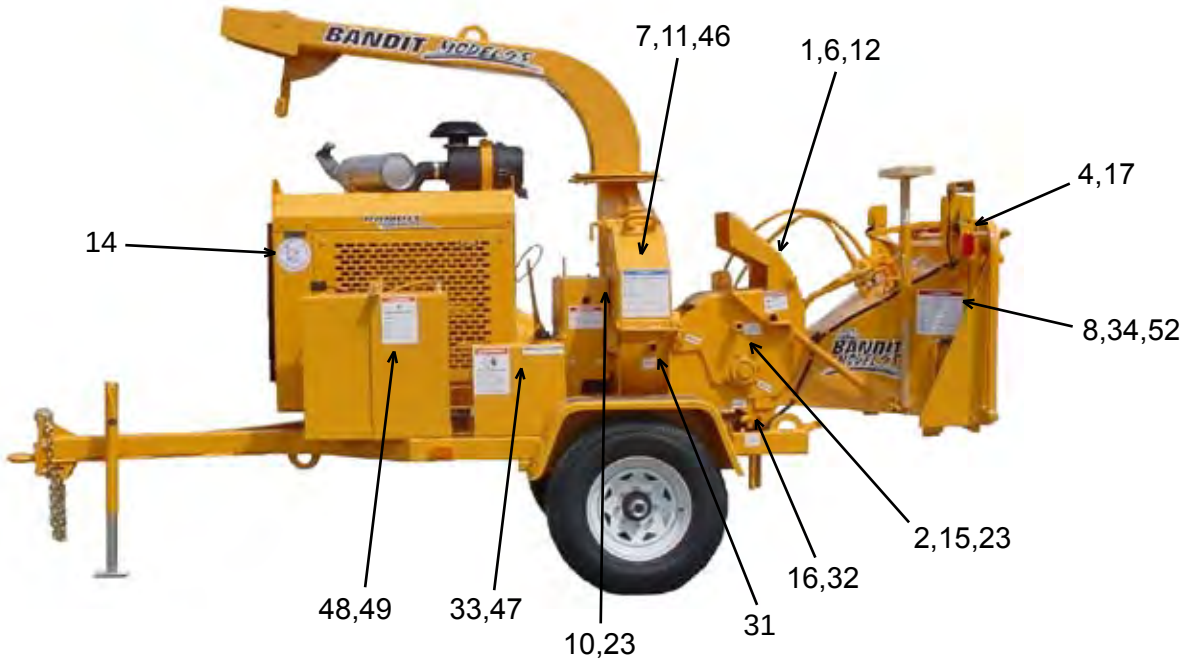
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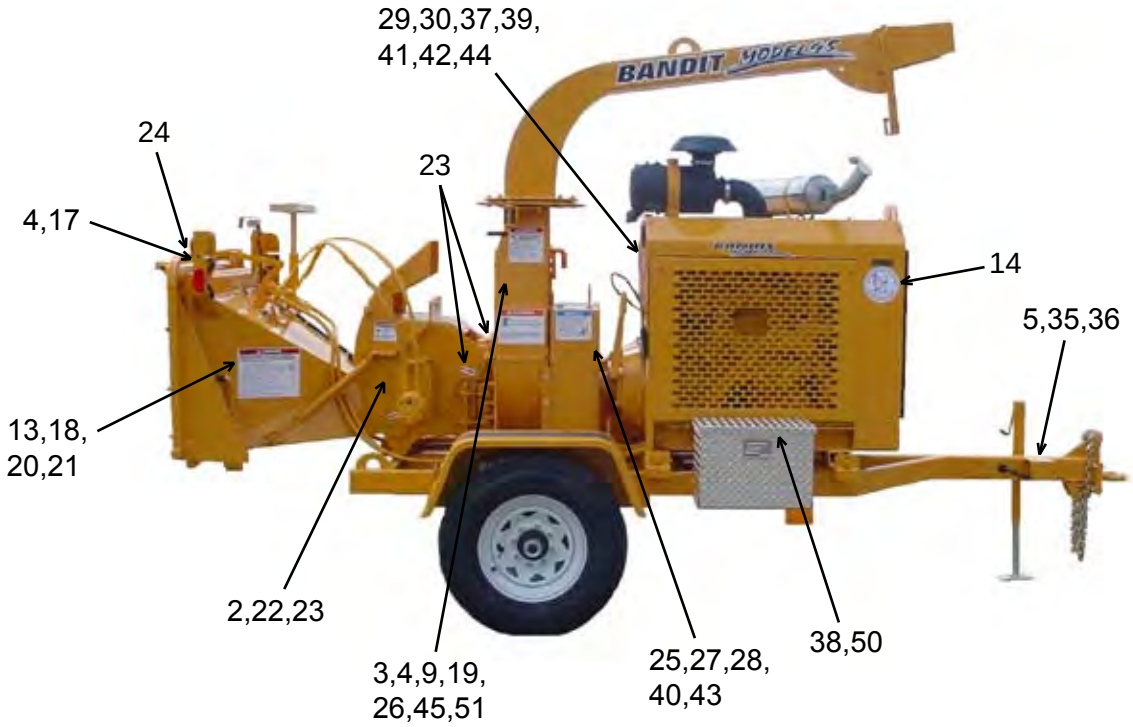
Some decals are for optional equipment. Decal locations may vary, these are general locations.
If any decals become damaged, replace immediately.

Copyright 1/10

DECAL LOCATIONS - MODEL 95

Decal locations may vary, these are general locations.





DECAL LOCATIONS - MODEL 95

Modifications and/or additions of decals to this list will happen.
Consult chipper dealer or manufacturer for most current decal package.

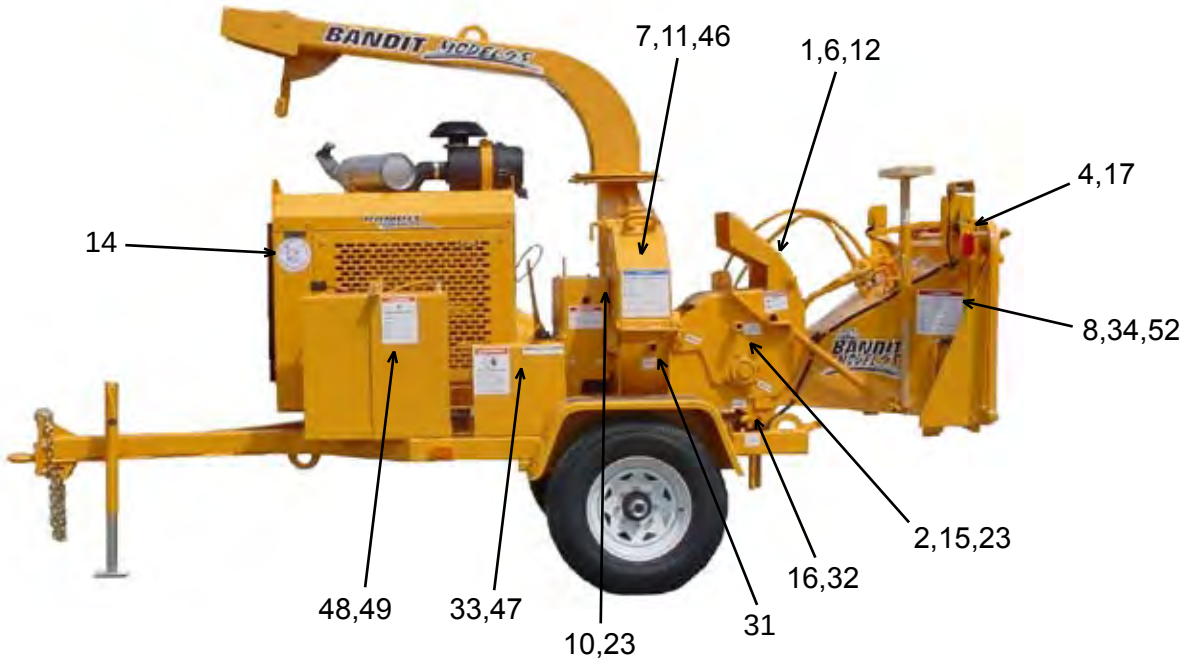
LOCATION	NUMBER	DESCRIPTION
1.	SPD-01	Avoid Injury Or Death...
2.	SPD-02	Moving Parts...
3.	SPD-03	Lockout All Energy Sources...
4.	SPD-04	Flying Discharge Material...
5.	SPD-05	Log Splitter...
6.	SPD-07	Last Chance Stop Cables...
7.	SPD-09	Do Not Work Under Top Feed...
8.	SPD-12	Do Not Feed Vine-Like...
9.	SPD-13	Must Remove Ignition Key...
10.	SPD-28	Do Not Insert Fingers
11.	SPD-30	Do Not Sit, Stand, Lay, Climb...
12.	SPD-33	Do Not Work Under...
13.	SPD-34	Brush Chippers Are Very Dangerous...
14.	ID-42	Bandit Industries Inc...USA
15.	INST-02	Yoke Lock Hole
16.	INST-03	Yoke Lock Bar
17.	INST-04	Arrow
18.	INST-05	Yoke Lift Up / Down
19.	INST-07	Discharge Swivel Right / Left
20.	INST-08	Winch Control Out / In
21.	INST-09	Selector Winch / Feed
22.	INST-11	Motor Coupler Guard...
23.	INST-12	Grease Daily (Arrow)
24.	SPINST-13	Push To Reverse
25.	INST-14	Articulating Tongue Out / In
26.	INST-15	Flipper Down / Up
27.	INST-16	Grease Weekly Arrow
28.	INST-39	Oil Daily Arrow
29.	INST-44	California Proposition 65
30.	INST-46	Autofeed Basic Info...
31.	INST-48	Disc/Drum Lock Tube
32.	INST-49	Disc/Drum Lock Pin
33.	INST-53	Hydraulic Oil...Hydrex XV...
34.	INST-76	Yoke Lift Down / Up
35.	INST-90	Tongue Up / Down
36.	INST-95	Electric Plug-In Schematic
37.	INST-101	Canada Engine Decal
38.	INST-109	Basic Maintenance Check List

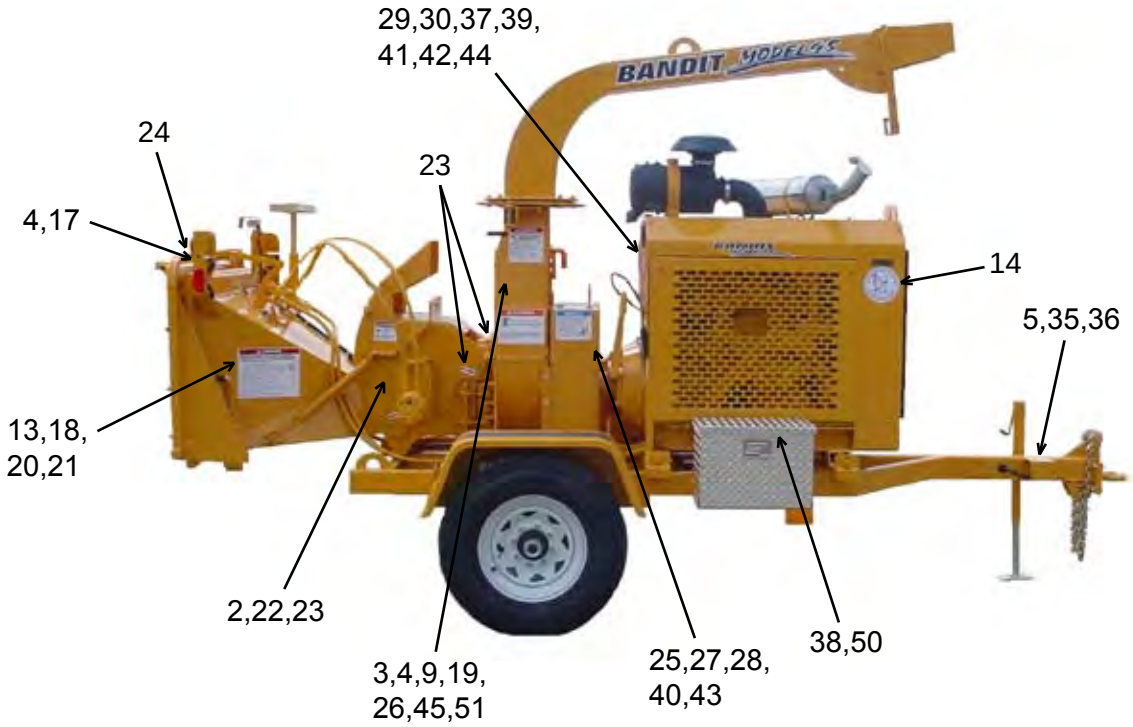
NOTICE

Some decals are for optional equipment. Decal locations may vary, these are general locations.
If any decals become damaged, replace immediately.

DECAL LOCATIONS - MODEL 95

Decal locations may vary, these are general locations.





DECAL LOCATIONS - MODEL 95

Modifications and/or additions of decals to this list will happen.
Consult chipper dealer or manufacturer for most current decal package.

LOCATION	NUMBER	DESCRIPTION
39.	N-02	Maintain Lubrication...
40.	N-03	Service Required Under Beltshield...
41.	N-05	Frequently Adjust...PTO...
42.	SPN-06	Decal Maintenance...
43.	N-07	Clutch Operation...
44.	N-08	Patents...
45.	N-09	Adjustable Feed Speed...
46.	SPN-11	Correct Knife And Hardware...
47.	SPW-01	Do Not Go Near Oil Leaks...
48.	SPW-02	Diesel Fuel Only...
49.	SPW-03	Gasoline Fuel Only...
50.	SPW-04	Frozen Battery Can Explode...
51.	SPW-08	Wear Personal Protection...
52.	SPW-10	Hydraulic Winch...
53.	900-8900-30	Basic Safety Decal Kit (Options may require additional decals)
54.	900-8900-14	Bandit Model 95 Logo Decal Kit

Additional Decals for Machine Equipped With A Chip Box - Consult dealer or manufacturer for general locations.

55.	SPD-47	Injured...Dump Box
56.	INST-29	Chip Box Lift Up / Down
57.	INST-30	Selector Chip Box / Feed

Additional Decals for Machine Equipped With A Track Undercarriage - Consult dealer or manufacturer for general locations.

58.	SPD-19	...Minimum 10 Feet Away From Tracks...
59.	SPD-38	Do Not Entangle Feet...
60.	INST-125	Selector Winch / Feed
61.	INST-126	Winch Out / In
62.	INST-127	Selector Winch / Track
63.	INST-135	Remote Starting Procedure
64.	INST-137	Remote / Tether
65.	SPW-06	Do Not Attempt...Slope Of More Than...
66.	SPW-07	Do Not Move Machine...Horn Is Blown...
67.	SPW-11	Do Not Leave Unit Parked On A Slope...

NOTICE

Some decals are for optional equipment. Decal locations may vary, these are general locations.
If any decals become damaged, replace immediately.

DECALS

Decals located on your Bandit equipment contain useful information to assist you in operating your equipment safely. Some of the decals on your machine and their location are shown in this section.

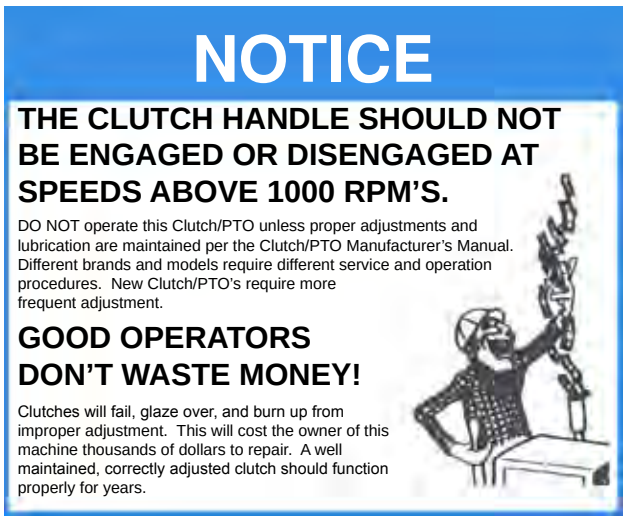
It is very important that all decals remain in place and in good condition on your machine. Please follow the care and instructions given below:

1) You should use soap and water to keep your decals clean. Never use mineral spirits or any other abrasive cleaners.
2) Replace immediately any missing or damaged decals. The location the decal is going to be applied to must be clean and dry, and at least 40°F (5°C) before applying decal.
3) When the need arises to replace a machine component with a decal attached, be sure and replace the decal.
4) Replacement decals are available, and can be purchased from the manufacturer or your Bandit Dealer.
5) Combination English / Spanish decals are typically standard. Other foreign language decals are available and may be purchased. Mail translated decals required to Bandit Industries, Inc.

EXAMPLES:









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⚠ DANGER

AVOID INJURY OR DEATH!
DO NOT OPERATE THIS MACHINE UNLESS:



- Only properly and fully trained people are used.
- Wearing clothing and personal protective equipment per ANSI Z133 and OSHA 29-1910 standards.
- Constantly prepared and positioned to activate the control and shut down devices.
- All guards and covers are secure and in place.
- Only factory approved pins, guards and replacement parts are used.



- All safety devices and controls are operational.
- Never allow hand, foot or body part to enter infeed area, conveyors or guards during operation or while running.
- All decals are legible, in place and operator thoroughly understands them.



- Never open guards, covers or inspection doors while disc/drum is turning or engine is running.

Follow all safety and operational instructions per manuals decals, video, ANSI Z133 and OSHA 29-1910 standards.

⚠ WARNING



DO NOT GO NEAR LEAKS!

- **Pressured oil easily punctures skin causing injury, gangrene or death.**
- **Seek immediate medical care.**
- **Do not use finger or skin to check for leaks.**
- **Remove hydraulic pressure or load before loosening fittings.**

⚠ DANGER

LAST CHANCE STOP CABLES FOR EMERGENCY USE ONLY!



Any Contact with infeed rollers will cause serious injury or death. The "Last Chance Stop" is a means of stopping/reversing the feed rollers if a negligent operator doesn't follow the safety rules and finds themself in trouble!

DO NOT RELY ON THE "LAST CHANCE STOP" TO DISOBEY OPERATOR RULES!!

"Reaching in" is usually associated with trying to hand feed small wood debris into the feed rollers.



DO NOT reach or kick into infeed hopper for any reason!

DO NOT hand feed small wood debris into feed rollers!

DO feed small wood debris with wooden push paddle, or throw material on top of big wood as it feeds!

DO always be positioned and prepared to activate forward-off-reverse control bar!

DO always follow operation and safety instructions! (ANSI, OSHA and manufacturer)



DO NOT REACH IN!

DO NOT operate this machine unless you have read the operators manual, read decals, watched video tape and have been thoroughly trained for safe operating procedures!

The "Last Chance Stop" does nothing for the foolish operator that kicks material into the infeed hopper. This can cause loss of foot, leg or death. Don't kick into infeed!

⚠ DANGER

BRUSH CHIPPERS ARE VERY DANGEROUS MACHINES TO OPERATE! READ & BELIEVE THIS WARNING DECAL!

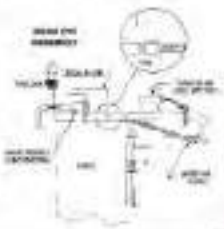


The chipper feedrolls are VERY DANGEROUS. They are designed to pull large diameter trees of any length into the chipper. Puting your hand, arm, foot or entire body through the machine is much easier than pulling a tree. FOLLOW the operating instructions in the operator's manual, and ALWAYS be in a position to activate the *Forward-Off-Reverse Control Bar*. NEVER take chances pushing wood too far into the infeed hopper of the chipper. NEVER use your feet to try to kick wood into the machine. There have been ACCIDENTS involving the feed rolls, resulting in the amputation of hands, arms, feet, legs and DEATH. DO NOT let this happen to you!



DO NOT open the chipper hood without letting the chipper disc come to a complete stop. THIS MEANS A COMPLETE STOP - NOT ALMOST! WAIT at least 3 minutes before disengaging the hood lock pin.

NEVER operate the chipper without the hood lock pin SECURELY installed and the hood lock pin padlock LOCKED. Failure to do this will allow the chipper hood to slam to the open position and possibly injure someone.



There have been ACCIDENTS, all of them were SERIOUS INJURIES or DEATH involved with chipper hoods flying open and hitting someone. In ALL of the cases the hood lock pin was NOT INSTALLED PROPERLY. DO NOT operate this chipper if the hood lock pin is not LOCKED INTO POSITION.

DO NOT OPERATE THIS MACHINE UNLESS YOU HAVE READ THE OPERATOR'S MANUAL AND HAVE BEEN TRAINED FOR SAFE OPERATING PROCEDURES!

AUTOFEED OPTIONS

AUTOFEED SYSTEM

Consult the original manufacturer's manual for your chippers
Autofeed operating and maintenance procedures

When processing material through the chipper, the feed system will automatically stop when the engine drops below a preset RPM point. The engine is constantly being monitored by an adjustable electronic speed switch. The switch can be adjusted so that at a given RPM, an electronic relay system will operate the hydraulic solenoid valves to stop the feedwheels until the engine has recovered speed. The patented "Autofeed Plus" system will reverse the feedwheels for a set period of time and then stop until the engine has recovered speed. Both autofeed systems will then automatically turn the feed on to resume forward travel.

Due to required components and equipment options a machine may have various types or brands of autofeed systems. Each chipper is shipped with the original manufacturer's manual for the autofeed system it is equipped with.

For the approximate autofeed settings on all optional autofeed systems refer to page 30 of the chipper manual. For part numbers on the hydraulic portion of the autofeed systems refer to pages 114 & 115 of the chipper manual.

Do not power wash the digital tach hour meters. Pressure causes unwarranted damage. **Do not spray tach, this will void warranty.**

PART NUMBERS FOR AUTOFEED DIGITAL TACH HOUR METERS

IEC (formerly ESI Intelli-Feed)
Part Number: 900-2908-11
For Service Call
1-815-985-0383



Electronic Solutions
Part Number: 900-2904-85
For Service Call
1-866-736-6839

No longer used.



L.O.R. MFG.
Part Number: 900-2906-82L
For Service Call
1-866-644-8622



Miratron Inc.
Part Number: 900-2910-68
For Service Call
1-866-285-0132

No longer used.



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AUTOFEED TERMINOLOGY

PPR Pulses per revolution. On magnetic pick-up machines, this setting will be the number of teeth on the gear or sprocket it is reading. On alternator pick-up machines, the setting will need to be obtained from your local dealer or Bandit Industries.

Mag Pick-up Magnetic pick-up, also called pick-up probe. This is normally located screwed into the flywheel housing on the engine block. It can also be found on the clutch housing or chipper shaft. See Figure 1.

Dump Block This block is used in most cases. It is located near the fender on the frame of the chipper. An easy way to find it is by following the hydraulic hose from the pump. The block will be the first thing it is hooked into. This block also contains the main relief. When the solenoid is activated (indicated by the light in the connector) the feedwheel(s) are stopped by the autofeed system. See Figure 2.

Reverse Valve Located on the infeed hopper of the chipper. It can be recognized by a valve with one solenoid bolted on a square block. The solenoid is approximately 2-1/2" (63.5mm) diameter x 2-3/4" (69.9mm) long. It will have two wires coming from it or on the newer machines it will have a connector with a light screwed to it. When the solenoid is activated (indicated by the light in the connector) the feedwheel(s) are reversed by the autofeed plus system. See Figure 3.

Dual Coil Reverse Valve Normally seen on bigger machines such as 280, 1850, 1890, 1990, 2090, etc. and special options. This will normally be located on the infeed hopper of the machine. It can recognized by a valve with two solenoids bolted on a square block. The solenoid is approximately 2-1/2" (63.5mm) diameter x 2-3/4" (69.9mm) long. It will have two wires coming from it or on the newer machines it will have a connector with a light screwed to it. The feed coil must have power (indicated by the light in the connector) for the feedwheels to feed and pull material in. See Figure 4.

Solenoid Electronically activated to produce a magnetic pull which shifts the spool inside the hydraulic valve. Shifting of the spool changes oil flow direction from operating forward or dumping oil to tank.

High High or HI is the setting when the feedwheels will turn back on (feeding operation).

Low Low or LO is the setting when the autofeed will reverse (if equipped) the feedwheels and then turn the feedwheels off.

Back Amount of time in seconds the feedwheels will back the wood away from the cutter disc/drum. Normally this will be set at .3 seconds.

Figure 1



Figure 2

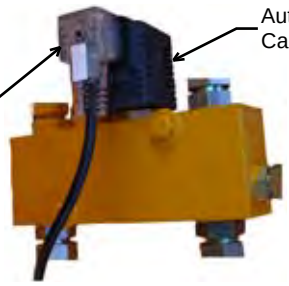
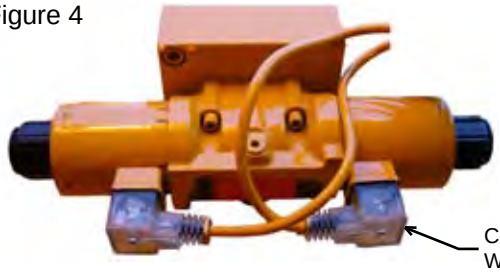


Figure 3



Figure 4



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TROUBLE SHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	SOLUTION
No Display	-Gauge not getting power.	-Check continuity of Red wire to a clean power source. -Check 7.5 amp fuse. -Check connection at engine disable plug at hood pin. -Check key switch for switched power in and out.
	-Gauge not properly grounded.	-Check continuity of Black wire to ground connection.
	-Dead Battery.	-Charge or replace.
Feedwheels Do Not Stop (Autofeed Doesn't Activate)	-Loose chipper belts.	-Tighten or replace per manual specifications.
	-Clutch slipping.	-Adjust per clutch manufacturer's recommendations.
	-Sticky dump cartridge.	-Lightly tap on dump block to free up. -Take cartridge out and clean free of debris. -Replace solenoid and/or cartridge.
	-No power to dump valve solenoid.	-Check fuse on dump valve signal wire (if equipped). -Check continuity on the dump valve wire (normally green wire).
	-Faulty tach.	-Check autofeed tachometer settings.
	-Low or "LO" setting wrong.	-Check autofeed tachometer settings.
Feedwheels Do Not Re-engage	-Engine RPM not reaching HI set point on tach.	-Check for stretched or out of adjustment throttle cable. This would not let engine reach full RPM. -Check HI RPM setting on gauge to make sure it is not set too close to full RPM of engine. HI setting should be 150 to 200 RPM below full engine RPM.
	-Sticky dump cartridge.	-Lightly tap on dump block to free up. -Take cartridge out and clean free of debris. -Replace solenoid and/or cartridge.
	-System pressure.	-Check and readjust per manual specifications.
	-Faulty tach.	-Consult local dealer or Bandit Industries.
No Signal	-Engine not running.	-Normal operating condition.
	-Bad signal wire.	-Check continuity on the signal wire (white wire in autofeed harness).
	-No signal from alternator.	-Check for at least 3.5 VAC output at idle and 10-12 VAC at HI RPM.
	-No signal from mag pick-up.	-Check for approx. 2-7 VAC at idle and approx. 14-20 VAC at HI RPM. Testing must be done at the two wires coming out of mag pick-up after disconnecting. Remove and clean off magnet at end. Reinstall by turning it in until it bottoms out. Then back off approx. 1/2 a turn. Lock with jam nut.
	-Bad mag pick-up.	-Replace mag pick-up.
Gauge Jumped Program	-Low voltage to tach.	-Check engine disable plug at hood. Clean and check for tight connection. Re-install using dielectric grease.
	-Shorts in wire harness.	-Check for possible worn wires or loose connections.
	-Faulty ground.	-Check black wire for a good ground.
	-Faulty tach.	-Consult local dealer or Bandit Industries.

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TROUBLE SHOOTING GUIDE cont.

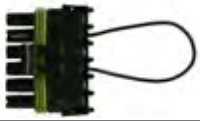
PROBLEM	POSSIBLE CAUSE	SOLUTION
Feedwheels Run In Reverse From Normal	-Backup time set wrong.	Reset backup time. Normal setting is .3 seconds.
	-Sticking reverse valve.	-Check solenoid operation. -Override cartridge manually by sticking a small allen wrench in the end of the solenoid. -Replace solenoid and/or cartridge.
	-Type settings programmed wrong.	-Reprogram or consult local dealer or Bandit Ind.

NOTE: Autofeeds with dump blocks can be unplugged and run manually. Autofeeds with dual output block will need a jumper plug. This can be a good test to determine if you problem is hydraulic or electronic.

LOR Jumper Plug
Part No.: 900-2913-51



IEC Jumper Plug
Part No.: 900-2914-09



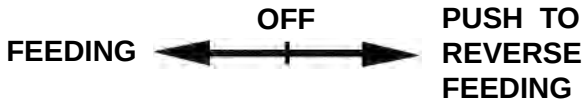
APPROXIMATE DIGITAL AUTOFEED SETTINGS
(FOR ALL AUTO FEED SYSTEMS - REFERENCE ONLY)

NOTE: Refer to the Completion/Check Sheet, that is shipped with the machine for the correct engine rpm. If needed, contact your local dealer or Bandit Industries.

Some Current Engine Types	Maximum RPM	Alternator PPR	Magnetic Pick-Up PPR	Off RPM	On RPM	ALR (LOR only)	Feed Reverse Time
Briggs & Stratton (Vanguard) - 23,35Hp	3600	N/A	100	3300	2650	N/A	.3
CAT 3011C / Perkins 403C - 26.7 Hp	3400	9	96	3300	2650	N/A	.3
CAT 3013C / Perkins 103C - 33.7 Hp	2800	N/A	109	2700	2400	N/A	.3
CAT 3024C / Perkins 404C - 51.3 Hp	2800	N/A	126	2700	2400	N/A	.3
CAT 3054C / Perkins 1104C - 86 Hp	2500	N/A	126	2400	2150	50	.3
Cummins B3.3 - 65 Hp	2500	N/A	110	2400	2150	N/A	.3
Cummins B3.3 - 85 Hp	2500	N/A	127	2400	2150	N/A	.3
Deutz - 29.6-88 Hp	2800	12.5	N/A	2650	2400	50	.3
John Deere 4045 - 80 Hp	2500	N/A	30	2350	2150	N/A	.3
John Deere 5030 - 75, 84 Hp	2800	N/A	30	2650	2400	N/A	.3
Hatz 2M41LZ - 35Hp	3000	12	N/A	2700	2400	N/A	.3
Honda GX670 - 20,24 Hp	3600	3	1	3300	2650	N/A	.3
Kohler CH730S - 25,27 Hp	3400	9	1	3250	2600	N/A	.3
Kubota WG972D1 - 32.5 Hp	3600	6	N/A	3450	3100	N/A	.3
Kubota V2203 - 49.5 Hp	2800	9 or 12	N/A	2650	2400	N/A	.3
Kubota V3300 - 73,87,90 Hp	2600	12.5	N/A	2450	2200	N/A	.3
Lombardini 9LD625-2 - 26.3 Hp	2800	5	116	2650	2250	N/A	.3
Robin EH720DS - 25 Hp	3600	N/A	1	3300	2650	N/A	.3
Wisconsin W4-1770 - 35 Hp	2800	ign. coil 2	24	2650	2400	N/A	.3
Wisconsin VG4D2 - 37 Hp	2400	ign. coil 2	27	2250	2050	N/A	.3
Some Prior Engine Types							
CAT / Perkins 50 Hp - Tier 1	2800	9	N/A	2650	2400	40	.3
Ford 4 Cyl. - 70 Hp	2800	14	N/A	2650	2400	50	.3
GM 3.0L - 76 Hp	2800	19	N/A	2650	2400	N/A	.3
Wisconsin - 65 Hp	3000	ign. coil 2	N/A	2850	2650	N/A	.3

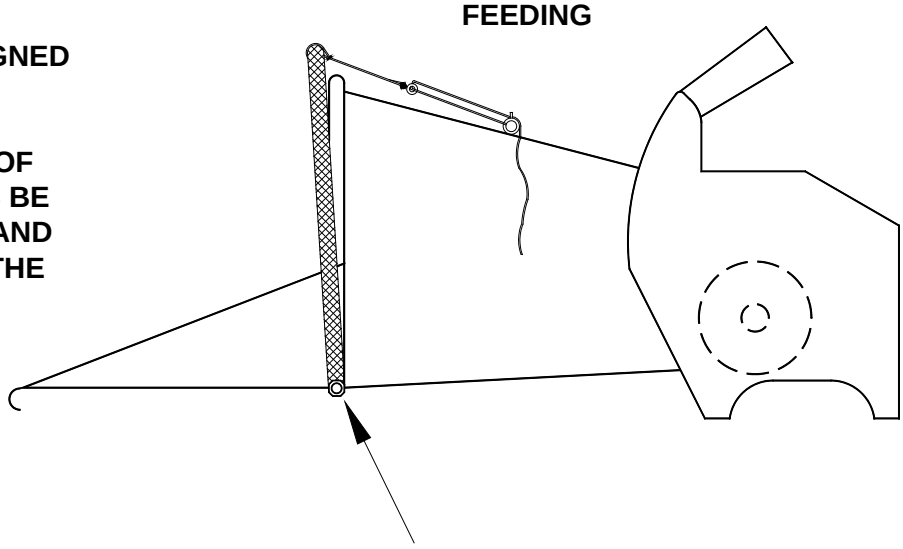
CONTROLS

CORRECT OPERATION OF FEED CONTROL HANDLE



FOR ALL CHIPPERS DESIGNED TO BE "HAND FED".

IF YOU ARE IN THE AREA OF INFEED HOPPER, ALWAYS BE PREPARED TO OPERATE AND WITHIN EASY REACH OF THE FEED CONTROL HANDLE.

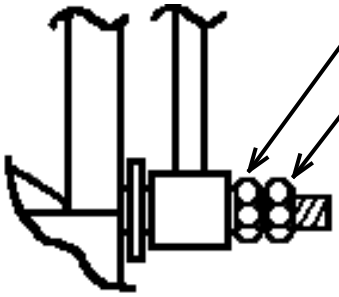


USE THE 1" JAM NUT TO ADJUST CONTROL HANDLE PIVOT TENSION.

ADJUSTING TENSION FOR CONTROL HANDLE PIVOT AND LAST CHANCE CABLE PULL.

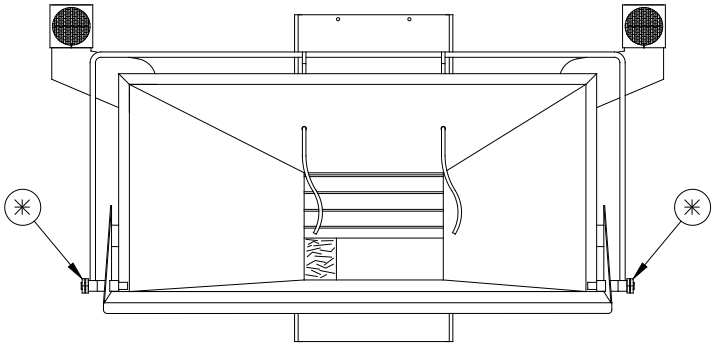
NORMAL WEAR REQUIRES PERIODICAL ADJUSTMENT OF PIVOT TENSION.

FEED CONTROL HANDLE SHOULD PIVOT WITH LITTLE EFFORT, BY HAND OR WITH A PULL ON "LAST CHANCE" CABLES. LUBRICATE PIVOT POINTS OF FEED CONTROL HANDLE WEEKLY.



ADJUST PIVOT TENSION WITH THE TIGHTNESS OF INSIDE FRICTION NUTS.

SECURE ADJUSTMENT WITH OUTSIDE JAM NUTS.



CONTROLS

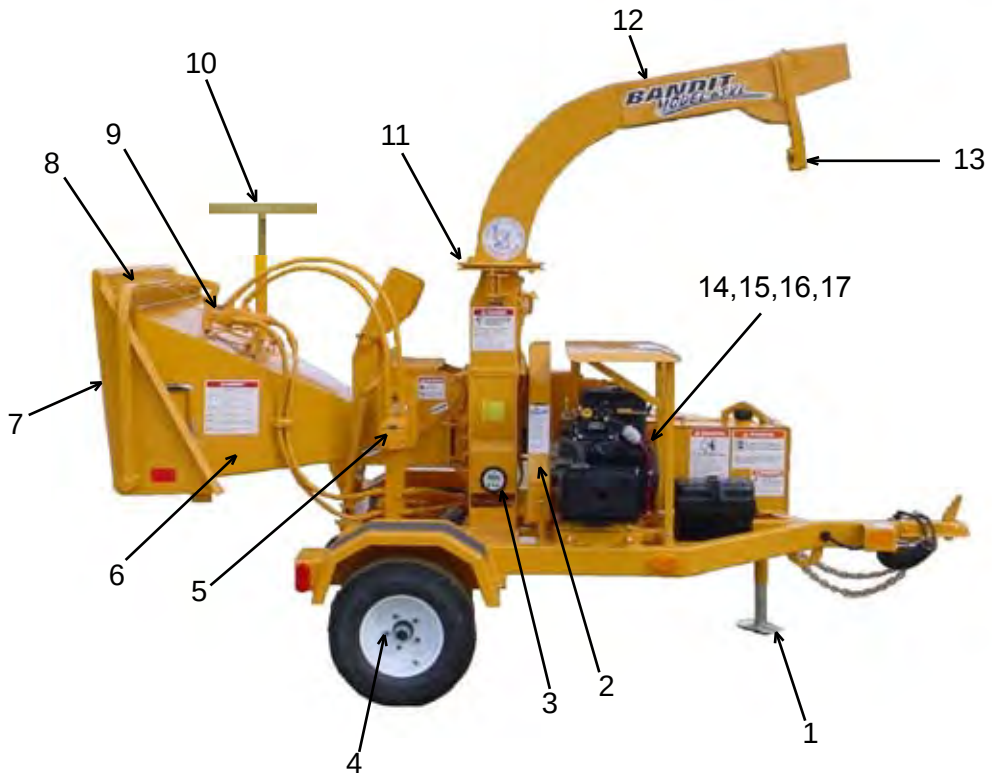
Models 65/95 Basic Location of Controls and Adjustments

LOCATION SHOWN

1. Foot Pad Jack
2. Autofeed Controls “Optional”
3. Chipper Belts / Pump Belts
4. Lug Nuts
5. Feedwheel Motor Coupler
6. Infeed Hopper
7. Folding Infeed Pan
8. Feedwheel Control Bar
9. Hydraulic Control Valves
10. Wooden Push Paddle
11. Swivel Discharge
12. Discharge Chute
13. Discharge Flipper Adjuster
14. Clutch Handle (if equipped)
15. Engine Controls, Adjusters
16. Electric Engine Throttle Adjuster (if equipped)
17. “Bandit” Lever Throttle Adjuster (if equipped)

NOT SHOWN

Knives & Hardware
Hydraulic Tongue Jack “95 Option”
Hydraulic Winch Area “95 Option”
Yoke Lift Cylinders “95 Option”
Adjustable Height Discharge “Optional”



CONTROLS

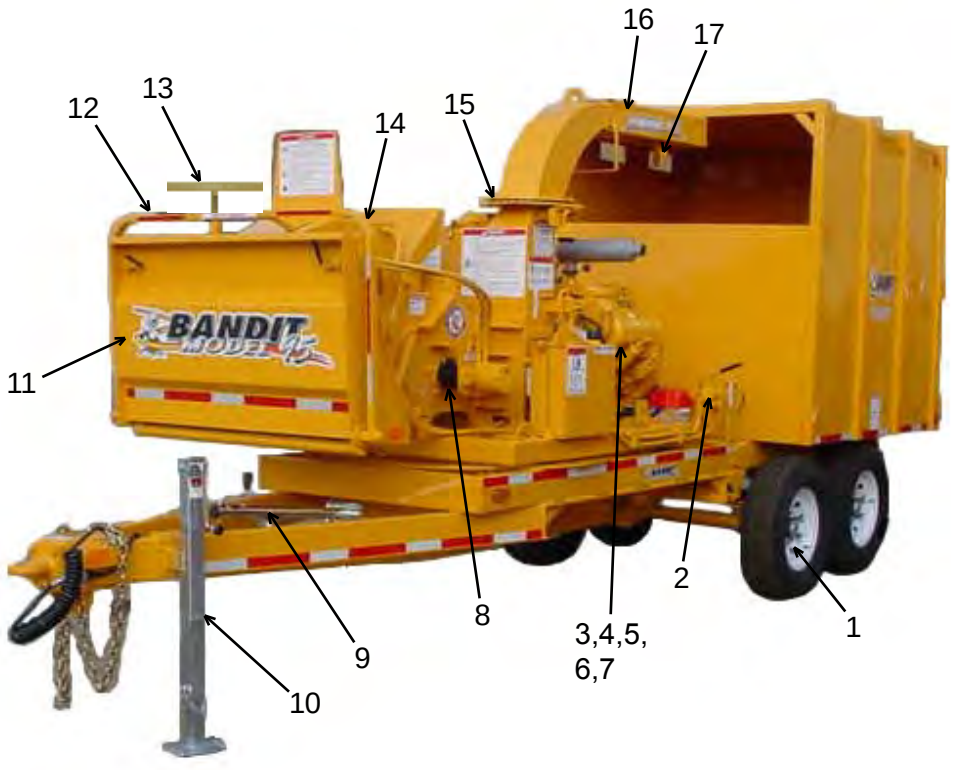
Model 65/95 Chip Box Basic Location of Controls and Adjustments

LOCATION SHOWN

1. Lug Nuts
2. Chip Box Lift Valve
3. Autofeed Controls “Optional”
4. Engine Controls, Adjusters
5. Electric Engine Throttle Adjuster (if equipped)
6. “Bandit” Lever Throttle Adjuster (if equipped)
7. Clutch Handle (if equipped)
8. Feedwheel Motor Coupler
9. Yoke Lift Jack
10. Foot Pad Jack
11. Folding Infeed Pan
12. Feedwheel Control Bar
13. Wooden Push Paddle
14. Hydraulic Control Valves
15. Swivel Discharge
16. Discharge Chute
17. Telescopic Discharge Lock Handle

NOT SHOWN

Knives & Hardware
Chipper Belts / Pump Belts
Yoke Lift Cylinders “95 Option”
Discharge Flipper Adjuster - 65
Infeed Hopper



CONTROL OPERATING PROCEDURES

Feedwheel Control Bar:

The feedwheel control bar operates the feedwheel(s). To make the feedwheel(s) operate so they are pulling material into the machine, pull the control handle towards the operator away from the chipper. To make the feedwheel(s) operate so they are pushing material out of the machine, away from the chipper disc/drum, the control handle should be pushed away from the operator, away from you and towards the machine. The control bar is in the off position when it is in the center location.

Yoke Lift Control - Optional:

The yoke lift control operates the top yoke lift cylinder. To lower the yoke, push the yoke lift control handle towards the tongue of the machine. To raise the yoke, push the yoke lift control handle towards the infeed hopper of the machine. The yoke lift control handle is in the flotation position when it is in the center location.

Selector Valve Control - Optional:

The selector valve control allows the operator to change the operation function from the feed function to the winch function or from the winch function to the feed function. The feedwheel(s) will not operate when the selector valve is in the winch function and the winch will not work while the selector valve is in the feed function. To have the feedwheel(s) operate the selector valve needs to be pushed in, away from the operator. To operate the winch the selector valve needs to be pulled out, towards the operator.

Winch Control - Optional:

The winch control operates the winch option. To make the winch reel out push the winch control valve handle in, away from the operator. To make the winch pull material in retract the winch clutch lock pin, pull the clutch handle up, and pull the winch control valve handle out, towards the operator. The winch also has a spool rotation lock, make sure this is disengaged to free wheel cable out of the spool. Note: If the winch control is an electric switch, push the switch out towards the material to make the winch reel out and push the switch away from the material to make the winch pull material in.

Discharge Swivel Control - Optional:

NOTE: Remove transport bolt and/or lock pin BEFORE operating this function.

The discharge swivel control operates the discharge rotate. To make the discharge swivel to the right push the discharge swivel control handle down, towards the ground. To make the discharge swivel to the left pull the discharge swivel control handle up, away from the ground. The discharge swivel control handle is in the off position when it is in the center location. Do not use the hydraulics to secure the discharge when tranpsorting the chipper. Make sure to install the lock bolt and nut before transporting.

Discharge Hydraulic Flipper Control - Optional:

The discharge hydraulic flipper control operates the discharge flipper cylinder. To make the discharge flipper rotate up pull the discharge hydraulic flipper control handle up, away from the ground. To make the discharge flipper rotate downward push the discharge hydraulic flipper control handle down, towards the ground. The discharge hydraulic flipper control handle is in the off position when it is in the center location.

Hydraulic Tongue Jack Control - Optional:

NOTE: Remove lock pin BEFORE operating this function.

The hydraulic tongue jack control operates the hydraulic tongue jack cylinder. To raise the front of the machine pull the hydraulic tongue jack control handle up, away from the ground. To lower the front of the machine push the hydraulic tongue jack control handle down, towards the ground. The hydraulic tongue jack control handle is in the off position when it is in the center location. Install the lock pin at the desired tongue height.

Chip Box Lift Control - Optional:

The chip box lift control operates the chip box lift cylinder. To make the chip box tilt up and empty pull the chip box lift control handle up, away from the ground. To make the chip box tilt down push the chip box lift control handle down, towards the ground. The chip box lift control handle is in the off position when it is in the center location.

WINCH OPERATING PROCEDURES

Figure 1

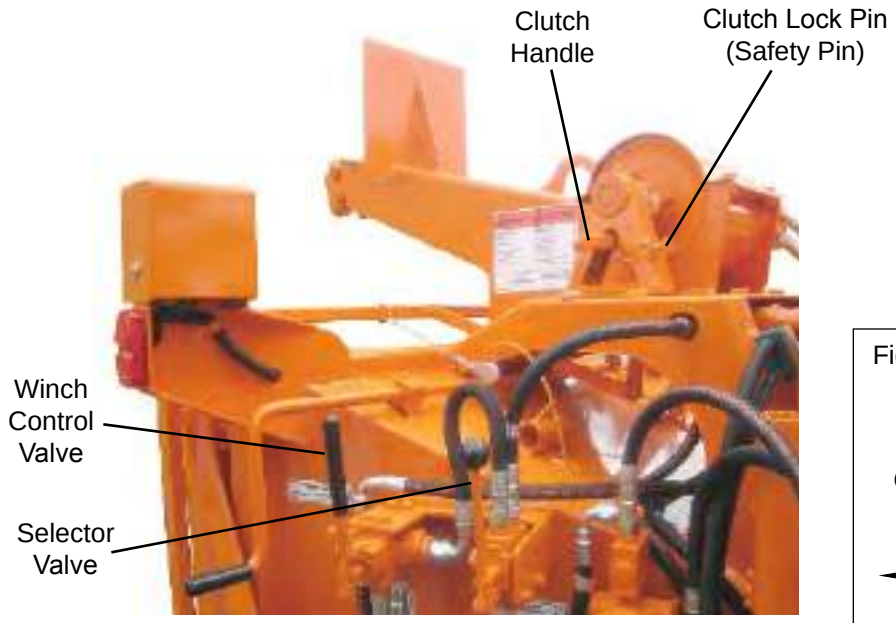
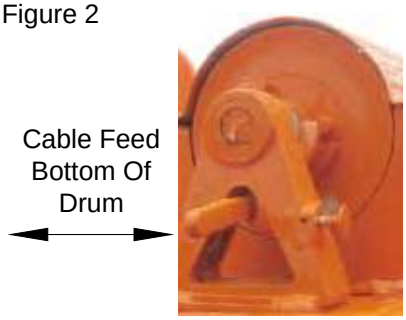


Figure 2



⚠ WARNING

HYDRAULIC WINCH OPERATION PER WINCH MANUFACTURER!

Install the cable to pull and feed from the bottom of the winch drum (See figure 2). Remove excess bolt length on cable bolts after cable is secured to the spool.

⚠ DANGER

Never reach into the winch or winch roller area.

OPERATING PROCEDURE

1. Winch operation is a one person job. This means the person who hooks the winch to the wood material is the same person who engages the winch.
2. Place the feedwheel control bar in the off position. Make sure chipper and towing vehicle are blocked or anchored in a solid location.
3. Locate the selector valve and engage it to the winch position. The feed system should not operate with selector in winch mode.
4. Make sure the winch clutch is disengaged and pull the cable to the material to be reeled in. Attach cable securely to wood material that you want pulled to chipper.
5. Make sure everyone is clear and then retract the clutch lock pin and then pull the clutch handle up to engage the winch clutch (See Figure 1). Make sure handle is locked in position.
6. Use the winch control valve or the radio remote control (if applicable) to now pull the wood material towards the machine.
7. Once the wood material is pulled to the machine, unhook it from the winch and make sure the cable is completely reeled back in and out of the way. Attach cable to keeper loop. Make sure the cable is clear of the feedwheel(s) or severe damage can occur if the cable should enter the chipper.
8. Reengage selector valve to feed position.
9. Engage the feedwheel(s) and begin feeding wood material.

CHIPPER HOOD ENGINE DISABLE PLUG OPERATION

This chipper hood engine disable plug is installed for safety purposes. It is designed to shut down the engine if the hood pin is not properly in place holding the chipper hood in the closed position. The system must be correctly maintained and operative at all times. If the plug connector is not correctly installed the engine will not start or run.

The chipper hood engine disable plug is located on top of the chipper hood (see figure 1). The chipper engine disable plug is made up of two parts: an electric socket and a plug connector (see figure 2). The electric socket is bolted to the chipper engine disable plug mount bracket (see figure 3) and the plug connector is attached by a cable to the hood pin (see figure 4).

If the chipper engine disable plug is not properly installed then the engine will not start or run. If the chipper engine disable plug becomes disconnected while the chipper engine is running the engine will be shut down or be disabled from running. This is for safety purposes, to ensure that the hood pin is not removed and the chipper hood is not opened while the engine is running.

The chipper engine disable plug is wired to shut down the chipper engine. When the plug connector is pulled out of the electric socket the electric circuit is broken, disabling the engine.

NOTICE

The engine disable plug has a circuit fuse. If the engine will not start or run, check the fuse first before consulting the engine manufacturer's manual. Circuit fuse locations: CAT / Perkins- located at the "BATT" wire near the ignition switch, Cummins- located by engine manufacturer near the starter (wires labeled "POW"), John Deere- located by engine manufacturer "Short Stop" circuit breaker by the ignition switch on the instrument panel or fuse by the ECM, and Deutz, Hatz, Honda, Kohler, and Robin- located at the battery post on the starter.

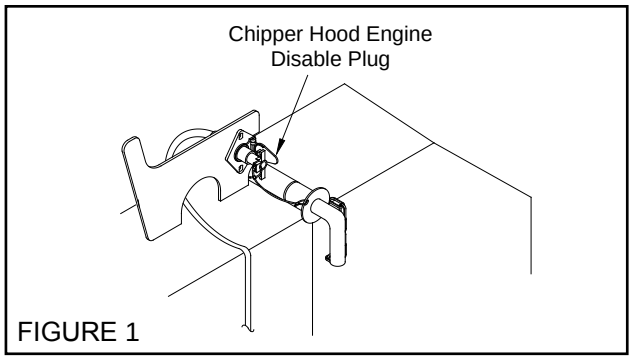


FIGURE 1

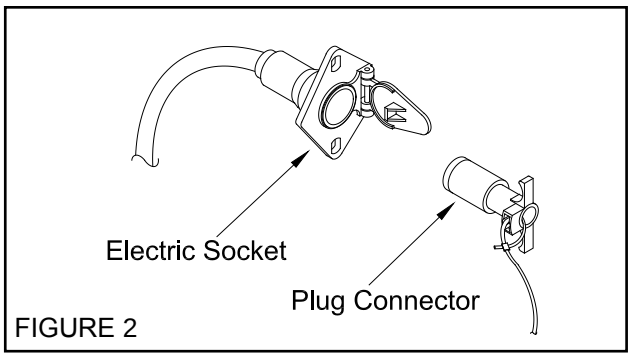


FIGURE 2

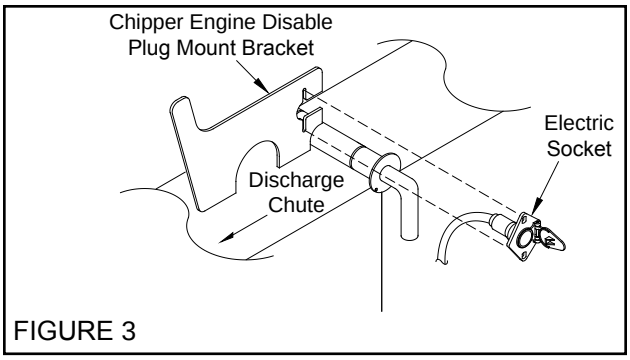


FIGURE 3

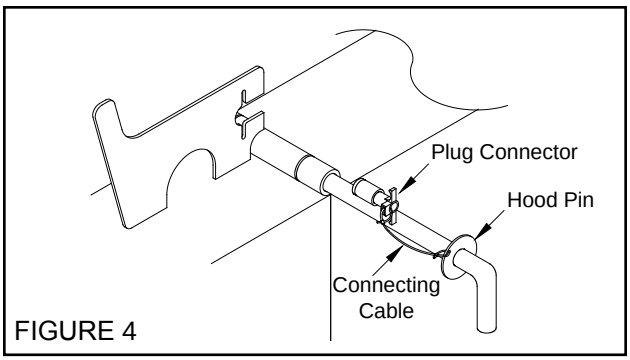


FIGURE 4

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SPRING LOCK FOR HOOD PIN OPERATION

The patented spring lock for hood pin, is installed for safety purposes. It is designed to help keep the hood pin from being removed if the chipper disc is turning. NEVER ATTEMPT TO PUSH THE SPRING LOCK FOR HOOD PIN DOWN OR REMOVE THE HOOD PIN, UNTIL AFTER THE ENGINE AND CHIPPER DISC HAVE BOTH COME TO A COMPLETE STOP.

The spring lock is located on the side of the chipper hood. The top of the spring lock should be directly behind the hood pin washer when the hood pin is properly installed in place holding the chipper hood in the closed position (see figure 1).

With the chipper hood shut and hood pin in place the spring lock helps keep the hood pin from sliding out or from being removed if the chipper disc is turning. There is a shaft cam block installed on the chipper shaft which will not allow the spring lock to be pulled down if the chipper disc is turning (see figure 2). When the chipper disc is turning, if the spring lock was to be pulled down or recessed it would simply hit the shaft cam block bouncing the spring lock back into position not allowing for the removal of the hood pin.

FIGURE 1

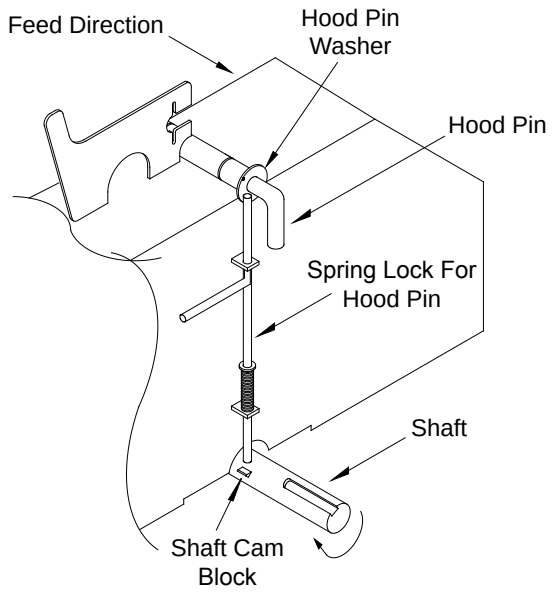
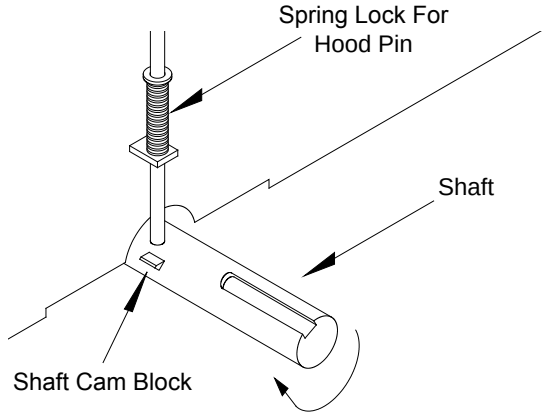


FIGURE 2



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CONSULT THE ENGINE MANUFACTURER'S MANUAL FOR SPECIFIC CONTROLS, OPERATION, & MAINTENANCE FOR TYPICAL ENGINES

1) **Ignition Switch:**
Turn the ignition switch key clockwise one stop (on position) to turn the electrical system on. The key should remain in the on position while the engine is running. Turn the key fully clockwise (start position) this will start the engine. To shut off the engine, return the key to the off position.

2) **On/Off Switch - Push Button Start:**
Some gasoline engines may have a Toggle Switch or an On/Off Switch combined with a push button to start the engine. First turn the On/Off Switch or Toggle Switch to the on position, then depress and hold the Push Button Start until the engine starts, then release the button. To shut off the engine, return the On/Off Switch or Toggle Switch to the off position.

3) **Ignition Switch With Preheat:**
The typical diesel engine may have a preheat system to assist in starting the engine during cold weather. To activate the preheat system, continue to hold the ignition key in the preheat position for 15 to 20 seconds, then attempt to start the engine. If the engine fails to start within 15 seconds, return the key to the preheat position, hold 10 seconds, and try starting again.

4) **Choke Adjustment (if equipped):**
Some gasoline engines may have a choke adjustment, pull the choke lever out to choke the engine. Push the choke lever in for normal engine operations.

5) **Throttle Adjustment (if equipped):**
Some engines may have a knob or a handle for the throttle adjustment. Typically you would pull the knob out, or turn the handle to increase the engine R.P.M.'s. To decrease you would push in the knob or turn the handle the opposite way.

6) **"Bandit" Lever Lock Cable Throttle System (if equipped):**
The Bandit throttle system has (2) positions, HIGH and LOW. Engine R.P.M. is controlled by moving the lever from one position to the other.

8) **Push Button Or Electric Throttle System (if equipped):**
Some engines may have a push button or electric throttle adjustment. Engine R.P.M. is controlled by pushing a button or switch to raise or lower the R.P.M.

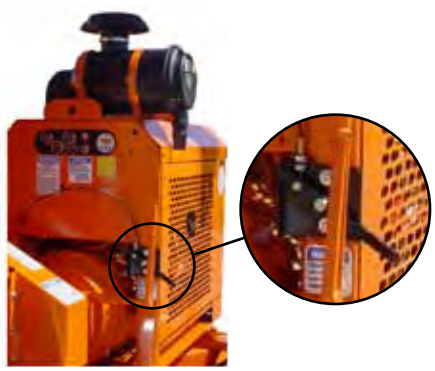
9) **Alternator Warning Light:**
This light will glow when the alternator is not charging, or when the ignition switch is turned on and the engine is not running.

10) **Oil Pressure Warning Light:**
This light will glow when the oil pressure is to low, or when the ignition switch is turned on and the engine is not running.

11) **Engine Temperature Warning Light:**
This light will glow when the engine, or engine coolant, is above normal operating temperature. If this occurs allow the engine temperature to cool down. If the engine is overheating because of a loss of coolant, or a broken fan belt, shut the engine off immediately.

TYPICAL DIESEL ENGINES

TYPICAL GASOLINE ENGINE



BANDIT THROTTLE SYSTEM



PUSH BUTTON OR ELECTRIC THROTTLE SYSTEM



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Transportation Procedures

⚠ WARNING

BEFORE TRANSPORTING THE MACHINE THE FOLLOWING MUST BE COMPLETED.

1) Idle engine, disengage clutch.
2) Make sure the feedwheel is in the lowered position.
3) Place all hydraulic controls in the “off” position.
4) Turn off engine, wait for the chipper disc/drum to come to a complete stop and you must have the ignition key in your possession.
5) Remove all excess debris. Remove any wood or debris which may have collected.
6) Return wooden push paddle to the mount and secure for transportation. Store all tools in the tool box and make sure all boxes and cabinets are closed and secured.
7) If equipped, close the folding infeed pan for the infeed hopper and make sure the spring latches are locked into place.
8) Raise the front of the machine or transport trailer with the tongue jack and remove the stabilization blocks used. If the machine is equipped with a hydraulic tongue jack, remove the lock pin before raising the front of the machine.
9) Couple machine or transport trailer to transport vehicle by lowering the machine onto the hitch. Make sure the hitch matches the coupling size. Then secure hitch and lock it.
10) Place the tongue jack in the transport position. If the machine is equipped with a hydraulic tongue jack, lift the foot pad to the transport position and install the lock pin.
11) Attach the safety chains by crossing them under hitch, make sure to allow the proper amount of slack in chains to avoid binding or dragging the ground when making turns.
12) Connect the brake breakaway cable (if equipped) and plug in the electrical connection for the lights on the machine or transport trailer.
13) Check running lights, turn signals, and brake lights. All must be operating properly before transporting the machine. Also check brakes (if equipped) to make sure they are operating correctly.
14) Do not transport unless discharge is clamped, pinned and bolted securely into place in the transport position pointed over the tongue.
15) If machine is equipped with a chip box, lock the turntable in the transport position.
16) Check tires for correct pressure, cuts or damaged rims.
17) Check lug nuts and retorque if necessary. Check new units before operation, check again after 20-25 miles (32-40 km) and regularly check at least weekly.
18) Inspect and replace any axle dust caps that are damaged or leaking.
19) Check wheel bearings and grease or oil axles per axle manufacturer’s manual.
20) Walk around the machine to confirm that everything is secure and that there is not anything loose that could fall off during transport. Look under machine to ensure nothing is dragging. Look down both sides of the machine for anything sticking out that may become damaged during transport.
21) If machine is equipped with a vise, make sure to secure in place and clamp jaws closed.
22) Close and secure any of the following, if equipped: engine cowl doors and side panels, radiator debris screens, inspection doors, housing covers, tanks caps and covers, etc.
23) If the machine is self propelled and on a transport trailer, make sure the trailer has the correct load capacity, the machine is positioned on the trailer for correct weight distribution, and the machine is securely bound down to the trailer bed per your States binding requirements. Make sure the loading ramps are securely stored for transport. (See Loading & Unloading Self-Propelled Machines.)
24) The machine is now ready for transport. Make sure to obey all local regulations and laws regarding the transporting of this type of machine.
25) Do not drive too fast for road conditions or exceed speed regulations for equipment towing. Machine must be hauled level and the towing vehicle must be sized to handle hitch weight, towing weight, and braking requirements.

Loading & Unloading Self-Propelled Machines

⚠ WARNING

BEFORE ATTEMPTING TO USE A TRAILER FOR TRANSPORT, MAKE SURE THE TRAILER TOWING VEHICLE IS APPROPRIATE FOR THE TASK.

1) The trailer has a cargo weight rating capacity for the weight of the machine. The combined weight of the trailer and the machine can not exceed the load capacity of the tires, axles, hitch coupler system or the GVWR (Gross Vehicle Weight Rating) of the trailer.
2) The trailer must have a lighting system and a braking system to match and perform correctly off the towing vehicle's system. You must meet the Federal and your States' Department of Transportation Code of Regulations concerning lights, brakes, and highway transit.
3) Make sure the towing vehicle has the hauling and hitch capacity ratings for the trailer and machine combination. The towing vehicle must be mechanically sound and capable of handling the towing job.
4) The trailer should be constructed with appropriate chain down positions for the specific sized machine. You must have binders that will withstand the strain of the machine trying to move while it is being transported.
5) When the machine is positioned on the trailer bed, there should be about 15% of the total trailer package weight on the tongue or hitch.
6) The loading ramps or loading gate of the trailer must be constructed to withstand the weight and forces involved in loading and unloading the machine.

⚠ WARNING

BEFORE LOADING OR UNLOADING THE MACHINE INSPECT AND CONFIRM THE FOLLOWING STEPS: When loading or unloading the self-propelled machine on the trailer, use care and caution. The maneuvering of the equipment must be slow, smooth, and intentional, not fast and jerky.

1) Make sure the trailer and towing vehicle are parked on a flat surface. They must be stable on the surface with the brakes locked and/or the wheels chocked to avoid unwanted movement.
2) Position the loading ramps or loading gate securely between the trailer and the ground level. Have them located so that they are in line with the tires or tracks of the machine when it moves.
3) Remove and store the chains and binders used for transporting.
4) Confirm that there are not any obstacles on the trailer bed, around the trailer that may cause restricted movement of the machine or the operator.
5) The only person in the area should be the one that is operating the machine controls, and he/she should be very experienced with the controls on this machine.
6) If you are on streets, roads or public areas, position the warning cones etc, per your company's safety policy.
7) Follow all pre-startup instructions for the machine.
8) Typically, the engine end of the machine should be positioned so that it is toward the tongue of the trailer, during transport.
9) Align the machine with the trailer bed, and the loading ramps. The only equipment movement should be slowly, straight on or straight off the trailer.
10) With the engine and the machine at as low a speed as possible, move the machine toward the ramp system. Make sure the alignment is correct throughout the travel.
11) Properly secure the equipment and the area to avoid any possible accidents or dangers.

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MAINTENANCE SECTION

The Bandit is a very simple machine to maintain. If you will follow a regular scheduled preventative maintenance program you should have years of trouble free operation.

⚠ DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession.

⚠ DANGER

Do not let anyone operate or maintain this machine until they have thoroughly read this manual, reviewed the equipment decals, watched the equipment video, and has been properly trained. You can purchase additional Bandit manuals, decals and videos for a nominal fee.

NOTICE

Consult your engine manual for proper break-in procedures. Various engines require somewhat different procedures, but basically the engines need to operate at lower R.P.M.'s and loads for a specific time.

NOTICE

Failure to properly break-in your engine may result in poor bearing and piston ring surfaces.

NOTICE

The Bandit has only been run for a short time to test proper hydraulic pressures, possible leaks, etc. The fuel tank will be empty. Fuel is provided through a small auxiliary tank for testing. This immensely helps maintain safety in our manufacturing facility and while shipping.

NOTICE

Expensive damage to the Bandit will occur if proper preparation is not taken before welding on the machine. Be sure to disconnect both battery cables and the engine ECM (engine control module) before welding. Follow the specific Engine MFG. instructions for proper welding and grounding procedures, before attempting to weld on the machine. If welding on the machine, do not ground the welder through the machine bearings, ground near work to be performed.

DAILY START UP & MAINTENANCE

1) Check the safety decals and engine gauges:
Replace any missing or damaged decals and/or engine gauges.

2) Check all safety equipment:
Check for proper operation. Repair or replace as needed. With everything shut down and stopped, insure last chance cables freely operate feed control valve.

3) Check entire machine for loose bolts, nuts, parts, or components:
Check entire machine for any loose parts or components. Check for loose nuts or bolts. Torque, tighten, or replace any of the loose components. See page 45 for specific bolt torques.

4) Check all guards:
Check to make sure all guards are in place and installed correctly. Make sure they are secure.

5) Check chipper hood hinge:
Make sure the hood hinge operates correctly, and is lubricated. Must replace hinge if damaged.

6) Checking for foreign objects:
Before opening the hood make sure the clutch is disengaged, the engine off, the disc/drum lock pin is installed, battery is disconnected, and also make sure the ignition key is in your possession. Remove the hood pin padlock, disconnect the chipper hood engine disable plug, suppress the spring lock for hood pin on disc chippers, and then remove the hood lock pin. Look for any foreign objects inside the chipper housing or in the knife pockets of the disc/drum. Remove any foreign objects found.

DAILY START UP & MAINTENANCE (cont.)

7) Check chipper disc assembly:
Check for elongated bolt holes, secure welds, torqued bolts, excessive wear and impact cracks. If a problem is found contact the chipper manufacturer or an authorized Bandit dealer. Also check the chipper housing at this time. Check the chipper base, belly band, and hoods for wear or damage. Also inspect the chipper bearings.

8) Check chipper disc/drum to turn:
Very carefully, manually with a pry bar or wood bar, turn the chipper disc/drum a full revolution. This is to ensure the anvil and knives have proper clearance. If the chipper disc/drum is jammed with debris or frozen in place, DO NOT attempt to start the engine and engage clutch until the chipper disc/drum rotates freely.

9) Check the condition of your fan blades, knives, anvil, and attaching hardware:
Grind, file, or replace your knives to keep them sharp. Check the fan blades, anvil, and attaching hardware for the knives and anvil. Replace if necessary.

10) Properly torque the knife mounting hardware:
All knife mounting hardware must be factory approved. Knife mounting hardware must be replaced after maximum of 4-5 knife rotations/changes to insure safe clamping ability.

Torque set, AT ALL TIMES to:

See TORQUE CHART on page 45.

11) Hood lock pin and padlock:
After closing chipper hood, reinsert the hood pin and padlock, make sure pin is tight and secure. If worn replace immediately. Don't use a worn or makeshift hood pin. Make sure the spring lock for the hood pin is in the correct position on disc chippers. Make sure the chipper hood engine disable plug is installed correctly and that it is also operating properly.

12) Grease all feedwheel and chipper bearings daily:
Use an EP-2 Lithium type grease only for all bearings. Purge chipper bearings with grease. You can not over grease these bearings. Grease feedwheel bearings with one shot of grease. Both types of bearings are designed with a relief system that will not allow over greasing. In other words, you can not hurt the bearing seals by pumping in too much grease. Most of the failures related to bearings are diagnosed as "Contamination". Contamination is caused by improper lubrication. Wipe off excess grease. **Excessive grease will attract dirt.**

13) Grease yoke pivot bearings:
Grease yoke pivot bearings with one shot of an EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

14) Check / adjust the chipper drive belt tension:
The belts will need to be tightened several times in the first few days of operation. A loose belt will slip and then glaze over. Once they slip you must replace them. Check hydraulic pump drive belts also if equipped. See pages 52 - 54 for procedures.

15) Check the hydraulic pump and motor shafts:
Check the hydraulic pump and hydraulic motor shafts for fit and tightness.

16) Check hydraulic oil level:
The hydraulic oil reservoir tank level should always remain at 7/8 full. Remember to check DAILY to avoid excessive heat build up.

17) Check for any fluid leaks:
Inspect for any oil, fuel, hydraulic oil, or engine coolant leaks. Check all hoses, fittings, lines, and tanks. DO NOT use fingers or skin to check for hydraulic leaks. Repair or replace any damaged or leaking components.

18) Check hydraulic control valves:
Inspect all hydraulic control valves and insure they operate smoothly and shift correctly.

19) Check the fuel level:
Check the fuel level, running out and repriming is time consuming. Do not over fill, and you must leave fuel expansion space in the top of the tank.

20) Check engine oil and coolant level:
Follow the engine manufacturer manual recommendations for fluid levels. You MUST follow specific ENGINE MFG. manual recommendations for radiator coolant, additives, lubrication, correct engine speed, ETC.

21) Check radiator, debris screen:
Thoroughly clean radiator fins at least once a day and twice in excessive conditions. Make sure debris is not packed between fins. Use pressurized water spray to clean. Do not rely on air pressure. The radiator will only appear to be clean. A partially plugged radiator will not allow the engine to cool properly. Clean cooling fan, shroud on air cooled engines, and the debris screen (if so equipped). Improper service, maintenance, or neglect will cause overheating problems and engine failure.

DAILY START UP & MAINTENANCE (cont.)

22) Check oil cooler (if equipped):
Thoroughly clean cooler fins at least once a day and twice in excessive conditions. Make sure debris is not packed between fins. Use pressurized water spray to clean. Do not rely on air pressure. The oil cooler will only appear to be clean.

23) Check air cleaner or precleaner:
Clean or replace element following engine manual recommendations. Also, check and clean the vacuator valve.

24) Check clutch:
Check for proper lubrication, and engagement tension adjustment, frequently adjust and lubricate per PTO clutch manufacturer's manual. Bandit Industries, Inc. does not warranty clutch failures.

25) Check tires:
Check tires for wear, weather checking and damage. Replace if damaged.

26) Inspect axle dust caps:
Inspect axle dust caps and replace if damaged or leaking.

27) Inspect, adjust, and lubricate tracks (if equipped):
Inspect, adjust, and lubricate tracks as needed per track MFG. manual.

28) Check the infeed hopper:
Check in the infeed hopper for any foreign objects and around the entire machine for tools, cans, saws, etc. All tools not in use should be stored in a tool box.

29) Block the tires and tongue:
Before operation block the tires and tongue for stability. Do not rely on tongue jack for operational stabilization.

30) Check the discharge direction:
Remove transport bolt and nut, then make sure the discharge is pointed in a safe direction and locked into place.

31) Review all safety procedures on decals, from manual, and from video.

32) Make sure all safety equipment is being worn:
Make sure you are wearing all of your safety equipment: hard hat, face shield, gloves, eye protection, ear protection, etc. per ANSI and OSHA standards.

33) Remember to check EVERYTHING on the checklist.

WEEKLY MAINTENANCE

1) Check anvil clearance, tightness, and wear:
Measure the anvil clearance. The clearance should be .045" (1.1mm) to .065" (1.7mm) from highest knife. Check the anvil hardware, make sure the bolts are at the proper torque. The anvil is a normal wear item, if it is worn you can rotate it to a new working edge. Refer to pages 56 - 57 for the exact checking of anvil clearance procedure.

2) Check alternator and fan belts on engine:
As applicable adjust and maintain per the engine manufacturer's manual.

3) Check spring tension on feed system:
Do not over tighten. Keep tight for small diameter material and progressively looser for larger diameter material.

4) Check wheel lug nuts:
Keep lug nuts tight, retorque, replace if needed.

5) Check and retighten tank mount bolts:
Check and retighten the fuel tank and hydraulic tank mount bolts.

6) Lubricate all steel friction areas:
Lubricate all steel friction areas including, but not limited to pivoting, hinged, sliding, rotating areas on the machine (i.e. control handle, folding pan, discharge flipper, winch rollers, height adjustable discharge, discharge T-handle, etc.)

7) Lube chain driven components:
Use a dry lube on any chain driven components: hydraulic swivel discharge and chain driven feedwheels.

8) Grease chip box turntable (if equipped):
Grease chip box turntable bearing's zerks with 1 to 2 shots of an EP-2 Lithium type grease. Wipe off excess grease. **Excessive grease will attract dirt.**

Copyright 1/10

MONTHLY MAINTENANCE

1) Check towing hitch:
Check for excessive damage or wear. Replace if needed. Keep pintle ring greased to reduce wear.

2) Check discharge and infeed hopper wear:
Check for wear on discharge, infeed hopper, and discharge direction adjustor; build up, repair or replace as needed.

3) Inspect feedwheel motor connections:
Check and maintain correct torque, on feedwheel motor connections. See page 55.

4) Check feedwheel teeth for sharpness:
Replace if needed.

5) Check chipper bearings and chipper sheave:
Check, retighten all bearing bolts, bearing lock collars, and also belt sheave bushings to correct torques.

6) Check hydraulic function pressures:
Check, reset and maintain all hydraulic function pressure settings to a maximum of the specified PSI (bar). This will give you the best performance from the hydraulic system.

7) Tire air pressure:
Fill each tire to rated capacity on tire.

8) Check wheel bearings:
Check and grease or oil wheel bearings per axle manufacturer's instructions.

9) Check and adjust brakes (if equipped):
Check and adjust brakes as needed per axle MFG. manual.

10) Check discharge chain tension (if equipped):
Check tension on hydraulic or hand crank swivel dicharge chain drive and tighten as necessary. Chain tension is 1/4" (6 mm) per foot (0.3 m) of center distance between the sprockets, NOT to exceed a 1/2" (13 mm) of deflection. Do not over tighten, which may result in hydraulic motor failure.

11) Lubricate "Bandit" lever throttle cable:
If the machine is equipped with a "Bandit" lever throttle system, lubricate inner throttle cable and cable ends with a cable lube or SAE 10W/30 oil. Replace throttle cable if it doesn't operate smoothly.

12) Check chip box turntable bearing (if equipped):
Check and retorque the chip box turntable bearing bolts.

3 MONTH MAINTENANCE

1) Hydraulic oil filter(s):
Must be replaced after FIRST 10 HOURS OF OPERATION, USE A 10 MICRON FILTER. After first change replace oil filter every 3 months or 400 hours.

2) Grease discharge swivel plates:
Grease swivel plates for discharge as needed.

3) High pressure oil filter(s) (if equipped):
Must be replaced after FIRST 10 HOURS OF OPERATION. After first change replace oil filter every 3 months or 400 hours.

YEARLY MAINTENANCE

1) Hydraulic oil:
Change hydraulic oil and flush the hydraulic reservoir tank.

2) Hydraulic suction screen(s):
Change hydraulic suction screen(s) yearly or every 2000 hours.



MAINTENANCE SECTION

BOLT TORQUE CHART

(THESE TORQUES ARE BASED ON DRY, CLEAN THREADS)

DESCRIPTION	BOLT SIZE	TORQUE (FT.-LBS.)	TORQUE(Nm)
Chipper Bearing Bolts (95 and 65 Belt Side)	5/8" - 11 NC	150	203
Chipper Bearing Bolts (65 Infeed Hopper Side)	1/2" - 13 NC	70	95
Chipper Shaft Bearing Retainer (95)	3/4" - 10 NC	170	230
Chipper Shaft Bearing Retainer (65)	5/8" - 11 NC	150	203
Chipper Draw Ring (95)	5/8" - 18 NF	150	203
Anvil (95)	5/8" - 11 NC	120	163
Anvil (65)	1/2" - 13 NC	65 - 75	88 - 102
Feedwheel Bearing Bolts	1/2" - 13 NC	75	102
Feedwheel Bearing Set Screws (95)	3/8" - 24 NF	20	27
Feedwheel Bearing Set Screws (65)	5/16" - 24 NF	14	19
Grip-Tight Feedwheel Bearing Set Screws		2	3
Engine Hold Downs	5/8" - 11 NC	125	169
Engine Hold Downs	1/2" -13 NC	60	81
Engine Hold Downs	3/8" - 16 NC	35	47
Knife Bolts (9/16" x 3 5/8" x 10 1/8" Knives - 95)	1/2" - 13 NC	70 - 80	95 - 108
Knife Bolts (1/2" x 4" x 7 1/4" Knives - 65)	1/2" - 13 NC	70 - 80	95 - 108
"RS" Hydraulic Feedwheel Motor Shaft Nut (65)	3/4" - 28 NEF	150 - 170	203 - 230
"RE" Hydraulic Feedwheel Motor Shaft Nut (95)	1" - 20 NEF	250 - 300	339 - 407
Engine Sheave Bushing "SD"	1/4" - 20 NC	9	12
Engine Sheave Bushing "SK"	5/16" - 18 NC	15	20
Engine Sheave Bushing "SF"	3/8" - 16 NC	30	41
Chipper Sheave Bushing "E"	1/2" - 13 NC	60	81
Chipper Sheave Bushing "F"	9/16" - 12 NC	75	102
Autofeed Cartridge Nut		4 - 6	5 - 8
Autofeed Plus Solenoid Retainer Nut		4 - 6	5 - 8
Hitch Mount Bolts	5/8" - 11 NC	220	298
Chip Box Turntable Bearing	1/2" - 13 NC	65 - 75	88 - 102

Before tightening bolts be sure you have the correct size bolt for the correct amount of torque.
Use only factory approved knives and hardware.

BASIC WHEEL TORQUE REQUIREMENTS (per mfg.)

KEEP LUG NUTS PROPERLY TIGHTENED, CHECK NEW UNIT BEFORE OPERATION, CHECK AGAIN AFTER 20-25 MILES (32-40 km) AND REGULARLY CHECK AT LEAST WEEKLY.

5 & 6 Lug Hubs (1/2" - 20 Studs) .....90 - 120 ft.-lbs. Torque (122 - 163 Nm)
8 Lug Hubs (1/2" - 20 Studs) .....90 - 120 ft.-lbs. Torque (122 - 163 Nm)
8 Lug Hubs (9/16" - 18 Studs) .....110 - 120 ft.-lbs. Torque (149 - 163 Nm)
8 Lug Hubs (5/8" - 18 Studs) .....190 - 210 ft.-lbs. Torque (258 - 285 Nm) (Cone Nut)
8 Lug Hubs (5/8" - 18 Studs) .....275 - 325 ft.-lbs. Torque (373 - 441 Nm) (Flange Nut)
10 Lug Hubs (3/4" - 16 Studs) .....450 - 500 ft.-lbs. Torque (610 - 678 Nm)

(Consult axle manufacturers manual shipped with each machine for specific axle-stud-wheel combination lug nut torques.)

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DAILY START UP & MAINTENANCE CHECK LIST

Each day before starting your machine these checks must be made:

		O.K.	Repaired
1)	Check the safety decals and engine gauges, replace if damaged.	☐	☐
2)	Check, maintain, and service all safety equipment for proper operation: "Last Chance Stop" system, engine disable plug, control bar, hood pin, spring lock for hood pin (disc chippers only), pusher tool, etc.	☐	☐
3)	Check entire machine for loose nuts, bolts, and components.	☐	☐
4)	Check all guards to make sure they are tight and securely in place.	☐	☐
5)	Make sure hood hinge operates correctly, is not damaged, and is lubricated.	☐	☐
6)	Open chipper hood and check for any foreign objects in chipper housing or knife pockets.	☐	☐
7)	Check the condition of chipper disc/drum assembly.	☐	☐
8)	Carefully rotate the chipper disc/drum with a pry bar or wood bar to insure proper anvil clearance. If chipper disc/drum is jammed with debris or frozen in place, do not attempt to start engine and engage clutch until chipper disc/drum rotates freely.	☐	☐
9)	Check the condition of your fan blades, knives, anvil, and attaching hardware.	☐	☐
10)	Properly torque knife mounting hardware.	☐	☐
11)	After closing chipper hood, reinsert the hood pin and padlock, make sure the hood pin is tight and secure. Make sure the hood lock pin is firmly in place, the spring lock for hood pin springs back into position on disc chippers, and the chipper hood engine disable plug is installed correctly.	☐	☐
12)	Grease chipper bearings (purge) and feedwheel bearings (1 shot) daily.	☐	☐
13)	Grease yoke pivot bearings with 1 shot.	☐	☐
14)	Check and/or adjust belt tension on chipper and hydraulic pump belt drives.	☐	☐
15)	Check hydraulic pump and motor shafts for fit and tightness.	☐	☐
16)	Check and always maintain hydraulic level at 7/8 full.	☐	☐
17)	Check all hoses, fittings, lines, and tanks for damage and fluid leaks.	☐	☐
18)	Check hydraulic control valves and insure they operate and shift correctly.	☐	☐
19)	Check fuel level. (Running out and repriming is time consuming).	☐	☐
20)	Check engine oil, coolant levels, and correct engine speed. Follow ENGINE MANUFACTURER'S manual specs.	☐	☐
21)	Check radiator and debris screen. Clean as necessary. Clean cooling fan and shroud on air cooled engines.	☐	☐
22)	Check oil cooler (if equipped). Clean as necessary.	☐	☐
23)	Check air cleaner, precleaner, and vacuator valve. Clean as necessary.	☐	☐
24)	Check clutch for proper engagement tension and lubrication, frequently adjust and grease per PTO manufacturer's manual recommendations.	☐	☐
25)	Check condition of the tires.	☐	☐
26)	Inspect and replace any axle dust caps that are damaged or leaking.	☐	☐
27)	Inspect, adjust, and lubricate tracks per manufacturer's manual recommendations (if equipped).	☐	☐
28)	Check infeed hopper and around the entire machine for any foreign objects, tools, cans, saws, etc.	☐	☐
29)	Block tires and tongue for stability before operation. Do not rely on tongue jack.	☐	☐
30)	Remove transport bolt and nut, then make sure discharge is pointed in safe direction and locked into direction.	☐	☐
31)	Review all safety procedures on decals, from manual, and from video.	☐	☐
32)	Wear all applicable safety equipment: hard hat, face shield, gloves, eye protection, ear protection, etc.	☐	☐
33)	Remember to check EVERYTHING on the checklist.	☐	☐

Bandit

WEEKLY CHECK LIST

		O.K.	Repaired
1)	Check anvil clearance, tightness, and wear.	☐	☐
2)	Check alternator and fan belts on engine.	☐	☐
3)	Check spring tension on feed system.	☐	☐
4)	Check and retighten wheel lug nuts.	☐	☐
5)	Check and retighten fuel tank and hydraulic tank mount bolts.	☐	☐
6)	Lubricate steel friction areas: pivoting, hinged, sliding, & rotating areas (i.e. control handle, folding pan, discharge flipper, winch rollers, etc).	☐	☐
7)	Use a dry lube on any chain driven component.	☐	☐
8)	Grease chip box turntable bearing with 1 to 2 shots (if equipped).	☐	☐

MONTHLY CHECK LIST

		O.K.	Repaired
1)	Check towing hitch for wear, keep pintle ring greased.	☐	☐
2)	Check discharge, and infeed hopper for wear.	☐	☐
3)	Inspect feedwheel motor connection.	☐	☐
4)	Check feedwheel teeth for sharpness.	☐	☐
5)	Check, retighten all bearing and chipper sheave bolts.	☐	☐
6)	Check hydraulic function pressures. Set to specified PSI (bar).	☐	☐
7)	Check and fill tires to rated pressure.	☐	☐
8)	Check and grease or oil wheel bearings, follow axle MFG. instructions.	☐	☐
9)	Check and adjust brakes, follow axle MFG. instructions (if equipped).	☐	☐
10)	Check and adjust discharge chain tension (if equipped).	☐	☐
11)	Lubricate “Bandit” lever throttle cable.	☐	☐
12)	Check and retorque chip box turntable bearing bolts (if equipped).	☐	☐

3 MONTH CHECK LIST

		O.K.	Repaired
1)	Replace hydraulic filter(s) after first 10 hours then quarterly or every 400 hours.	☐	☐
2)	Grease swivel plates for discharge as needed.	☐	☐
3)	Replace high pressure oil filter(s) (if equipped) after first 10 hours then quarterly or every 400 hours.	☐	☐

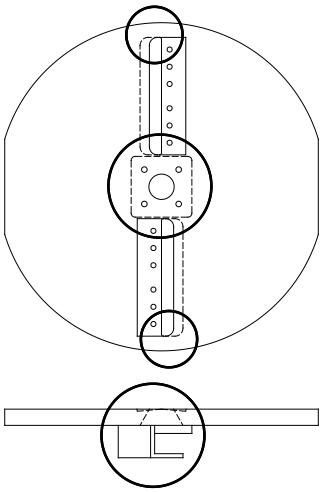
YEARLY CHECK LIST

		O.K.	Repaired
1)	Change hydraulic oil and flush the hydraulic tank.	☐	☐
2)	Replace hydraulic suction screen(s) annually or every 2000 hours.	☐	☐

⚠ WARNING

WHEN YOU CHANGE CHIPPER KNIVES

CHECK CHIPPER DISC ASSEMBLY FOR ELONGATED KNIFE BOLT HOLES, SECURE WELDS, TORQUED BOLTS, EXCESSIVE WEAR AND IMPACT CRACKS. IF A PROBLEM IS FOUND CONTACT CHIPPER MANUFACTURER, OR AN AUTHORIZED CHIPPER DEALER.
ALSO CHECK THE CHIPPER HOUSING AT THIS TIME. CHECK BELLY BAND, BASE AND HOODS FOR WEAR AND DAMAGE. ALSO INSPECT THE CHIPPER BEARINGS.



LUBRICATION CHART

		CHECK			
#	DESCRIPTION	DAY	WEEK	MONTH	PROCEDURE
1	Disc/Drum Bearings	X			Purge bearings daily - wipe off excess
2	Feedwheel Bearings	X			1 shot of grease - wipe off excess
3	Yoke Pivot Bearings	X			1 shot of grease - wipe off excess
4	Hood Hinge	X			1 to 2 shots of grease - wipe off excess
5	Steel Friction Areas: pivoting, hinged, sliding, rolling		X		Lubricate (i.e. control handle, discharge flipper, folding pan, winch rollers, etc)
6	Chain Driven Components		X		Dry lube (Swivel discharge, chain driven feedwheels, etc)
7	Pintle Eye Ring			X	Grease to reduce wear
8	Bandit Throttle Cable			X	Lubricate inner cable & ends SAE 10W/30
9	Discharge Swivel Plates			3 Months	Grease as needed
10	Clutch	→			Grease per MFG's instructions
11	Wheel Bearings - if equipped	→			Grease or oil per MFG's instructions
12	Tracks - if equipped	→			Grease per MFG's instructions

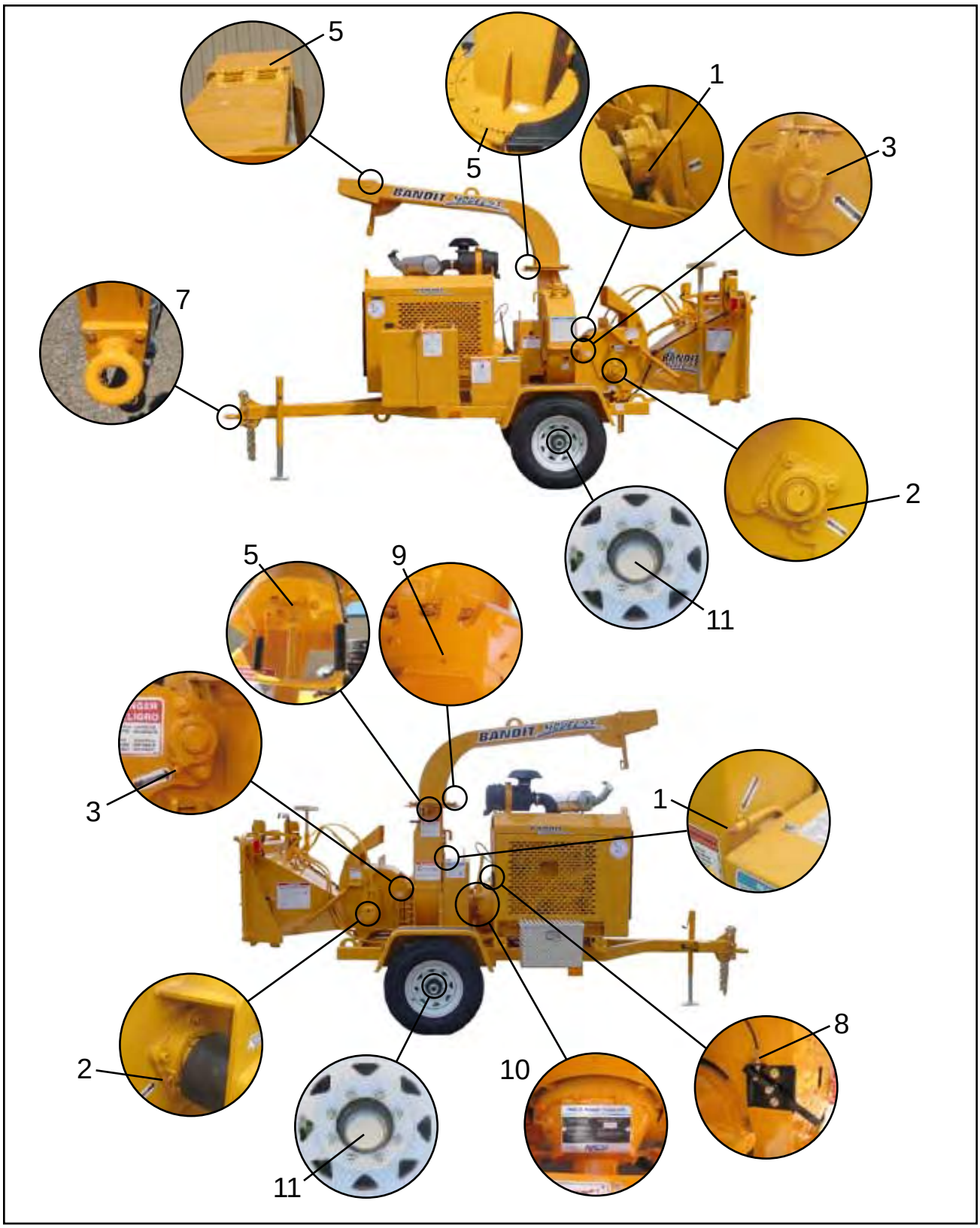


A right angle grease fitting may need to be used to grease some of the lubrication points. This type of grease fitting can be obtained from most local automotive parts stores.



NOTICE Use as a reference only, locations may vary depending on options or component manufacturer. Lubrication point instructions are described on the machine, in the Lubrication & Coolant Section and Maintenance Section of this manual, or component manufacturer's manual.

LUBRICATION CHART

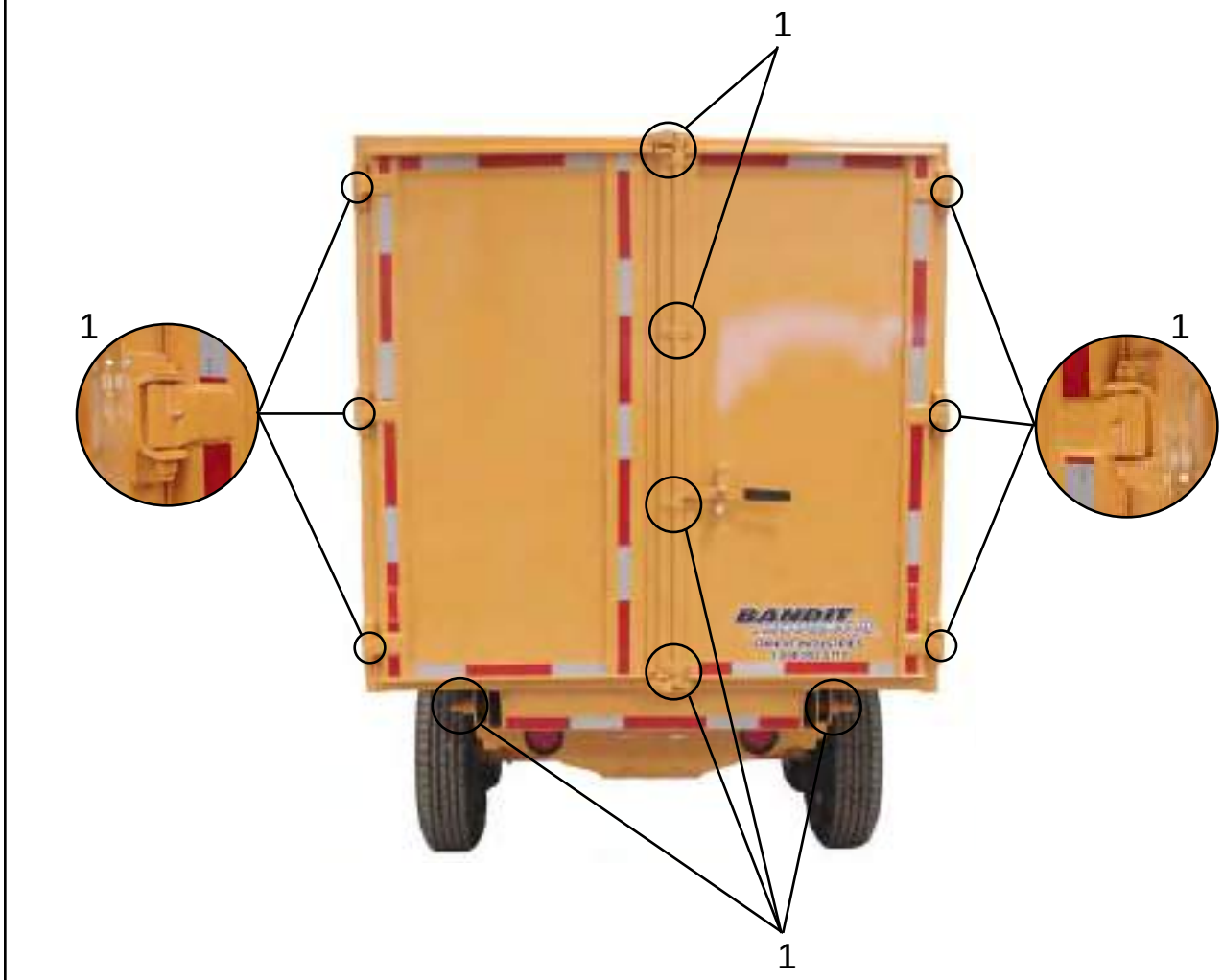


NOTICE Use as a reference only, locations may vary depending on options or component manufacturer. Lubrication point instructions are described on the machine, in the Lubrication & Coolant Section and Maintenance Section of this manual, or component manufacturer's manual.

Bandit

LUBRICATION CHART - CHIP BOX

		CHECK			
#	DESCRIPTION	DAY	WEEK	MONTH	PROCEDURE
1	Steel Friction Areas: pivoting, hinged, sliding, rolling		X		Lubricate (i.e. control handle, discharge flipper, folding pan, winch rollers, etc)
2	Chip Box Turntable Bearing		X		1 to 2 shots of grease - wipe off excess



NOTICE Use as a reference only, locations may vary depending on options or component manufacturer. Lubrication point instructions are described on the machine, in the Lubrication & Coolant Section and Maintenance Section of this manual, or component manufacturer's manual.

LUBRICATION CHART - CHIP BOX



NOTICE Use as a reference only, locations may vary depending on options or component manufacturer. Lubrication point instructions are described on the machine, in the Lubrication & Coolant Section and Maintenance Section of this manual, or component manufacturer's manual.

BELT TENSION

GENERAL RULES FOR TENSIONING

1. Check tensioning during the first 2 through 48 hours of run-in operation especially.
2. Over tensioning or under tensioning shortens belt and bearing life.
3. Keep belts free from foreign materials that may cause the belt to slip.
4. Make V-drive inspection on a periodic basis. Never use belt dressing as this will damage the belt and cause early failure.
5. Belts should never be forced over the sheave. Allow enough room for belts to slip on.
6. Always make sure sheaves are aligned properly.

TENSIONING PROCEDURE

Main Drive Belts

Follow all pre-maintenance shut down procedures. Locate the center of the belt span between the sheaves. Push or pull on the belt until the belt has deflected 1/4" (6.4 mm) for a Model 65 or 3/8" (9.5 mm) for a Model 95. Record the push or pull force. The force should be 12 to 13 lbs./belt (5.4 to 5.9 kg/belt) for a Model 65, 9 to 10 lbs./belt (4.1 to 4.5 kg/belt) for a Model 65 with a Honda engine, or 10 to 12 lbs./belt (4.5 to 5.4 kg/belt) for a Model 95. Adjust the belt tension if the force falls outside of this range. If belts are not properly adjusted belts will slip, glaze over, and be ruined. This is NOT covered by warranty.

1) Remove beltshield.
2) To adjust the belt tension, loosen the four engine mounting bolts and the jam nuts on the engine adjuster on the radiator end of the engine.
3) Adjust the belt tension with the engine adjuster on the clutch end of the engine. If you have to push the engine with the adjuster, the belts will tighten slightly after the engine is realigned.
4) Use the engine adjuster on the radiator end of the engine to realign the engine, so the engine sheave and chipper sheave are aligned. The sheaves can be checked with a string or straight edge.
5) Torque the two engine mounting bolts (see Torque Chart for the correct torque) on the opposite side of the engine from the engine adjusters.
6) Loosen the jam nuts on the engine adjuster on the radiator end of the engine.
7) Torque the engine mount bolt and then tighten the engine adjuster jam nuts on the radiator end.
8) Hand tighten the remaining engine mount bolt and loosen the engine adjuster jam nut on the clutch end half a rotation. Loosen the engine adjuster jam nuts all the way and torque the engine mount bolt.
9) Tighten the engine adjuster jam nuts on the clutch end.
10) Recheck the belt tension and alignment, if readjustment is needed go back to step 2.
11) Reinstall beltshield.

NOTICE lbs./belt (kg/belt) is per 1 belt. If equipped with 4 groove poly band belt, lbs./belt (kg/belt) must be multiplied by 4. If equipped with two 3 groove poly band belts, lbs./belt (kg/belt) must be multiplied by 3 for each poly band belt. If equipped with 2 groove poly band belts, lbs./belt (kg/belt) must be multiplied by 2 for each poly band belt.

NOTICE It is a good practice to rotate the belts during tensioning. Then recheck deflections. The belts may need to be tightened again.

Pump Drive Belts (If equipped)

1) Locate the center of the span between sheaves.
2) Push or pull down on the belt until the belt has deflected 1/4" (6.4 mm).
3) Record push or pull down force. The force should be 8 to 9 lbs (3.6 to 4.1 kg).
4) Adjust the belt tension if the force falls outside of this range.

Do not over tighten the hydraulic pump belt. For best results use a good belt tension tester. Most all pump failures result from too much side load on the pump shaft. Too much belt tension is very easy to detect inside a failed pump. Pumps with this condition will not be covered under warranty.

DO NOT IGNORE THIS MAINTENANCE RULE!

New belts stretch very soon and must be adjusted several times in the first few hours of operation. Adjust after one hour of operation, then every four hours until the belts quit stretching.

Failure to do this will cause the belts to burn and fly off. **THIS FAILURE IS NOT COVERED BY WARRANTY!**

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BELT TENSION

FIGURE 1

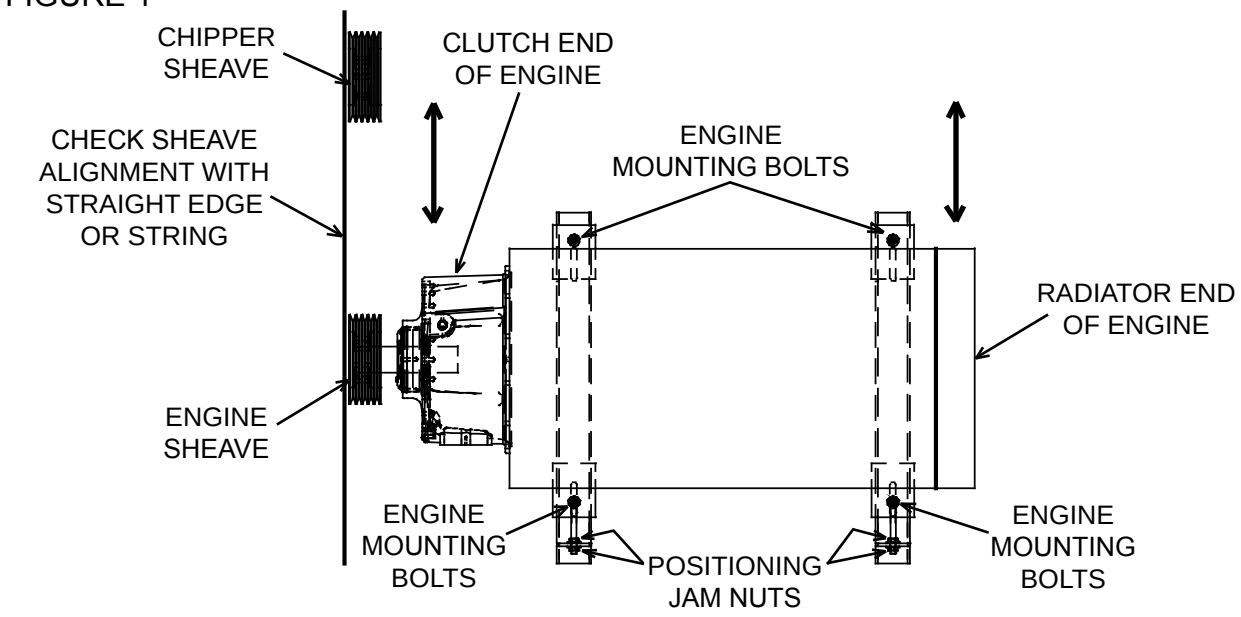
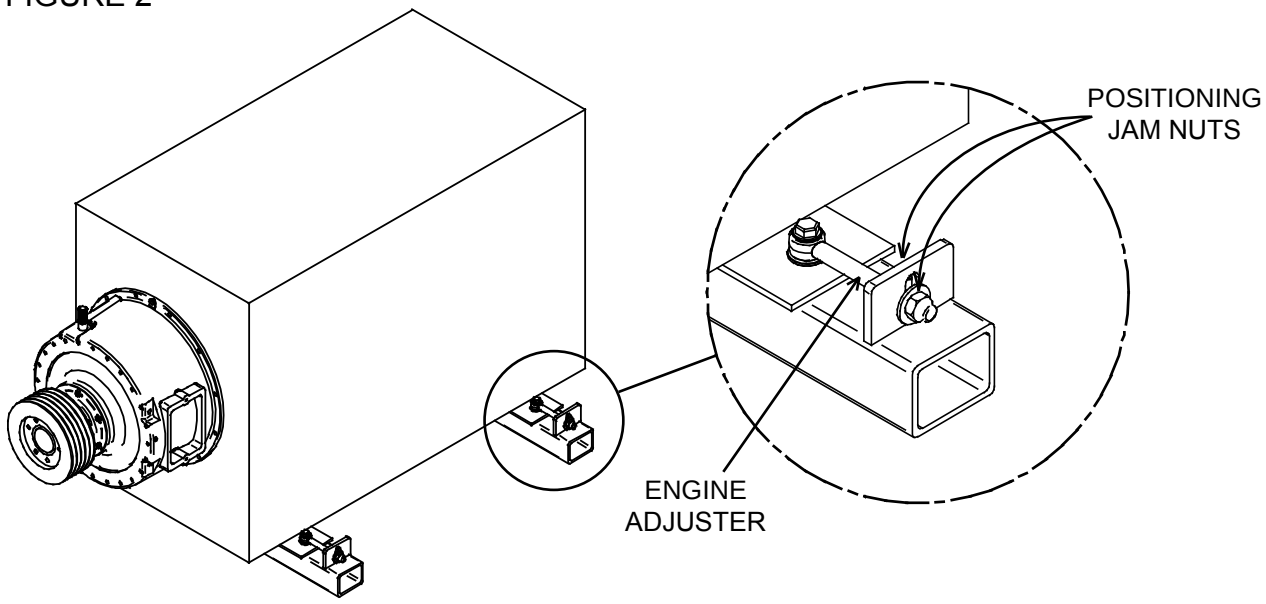
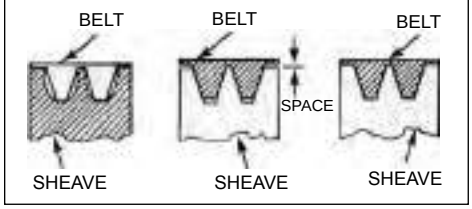


FIGURE 2

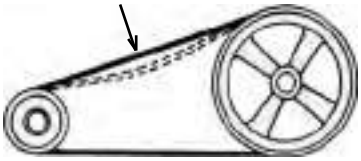


Worn or misaligned belts and sheaves in the power train causes belt slippage, thus power loss. Keep the power train working for you, not against you, by checking for needed adjustment or replacement.



Main Drive belts maximum of 1/4" deflection with 12 to 13 lbs. of force for a Model 65 (if equipped with a Honda engine: 9 to 10 lbs. of force).
Main Drive belts maximum of 3/8" deflection with 10 to 12 lbs. of force for a Model 95.

Pump Drive belts maximum of 1/4" deflection with 8 to 9 lbs. of force.

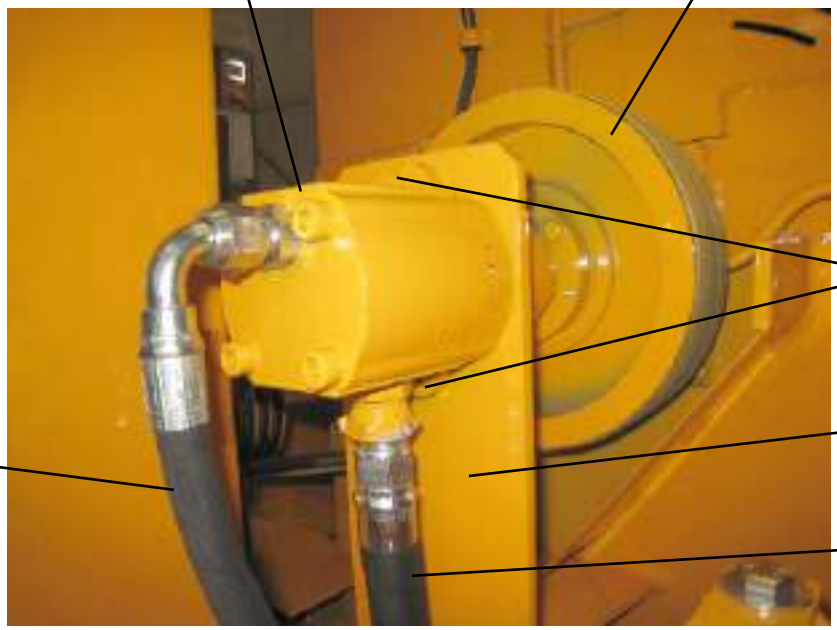


MODEL 65 DRIVE BELT REPLACEMENT

⚠ DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc to come to a complete stop, install the disc lock pin, disconnect battery, and make sure the ignition key is in your possession.

1) Follow all pre-maintenance shut down procedures.
2) If machine has been running, allow time for the hydraulic oil to cool down before continuing.
3) Remove beltshield.
4) Remove the hydraulic suction hose from the hydraulic pump, the hose can be capped with a 3/4" NPT pipe cap. If the hose is not capped, keep the end of the hose higher than the hydraulic tank.
5) Remove the hydraulic pressure hose from the hydraulic pump, the hose can be capped with a #10 male JIC cap.
6) Remove the bolts that hold the torque arm to the hydraulic pump.
7) Remove the old drive belts and place the new drive belts on. The engine may have to be adjusted in order to do this.
8) Adjust the belts to the correct tension, see pages 52 - 53..
9) Bolt the torque arm to the hydraulic pump.
10) Reassemble both hydraulic hoses to the hydraulic pump.
11) Reinstall beltshield.
12) Check the hydraulic fluid level and fill to 7/8 full, if needed.
13) After running the machine for a few minutes, the hydraulic oil level will need to be checked again and filled to 7/8 full, if needed.
14) Check the hydraulic hoses to make sure they are tight and not leaking.
15) Remember new belts stretch and will need to be checked often, tighten if needed, see pages 52 - 53.
16) Resume normal operation.



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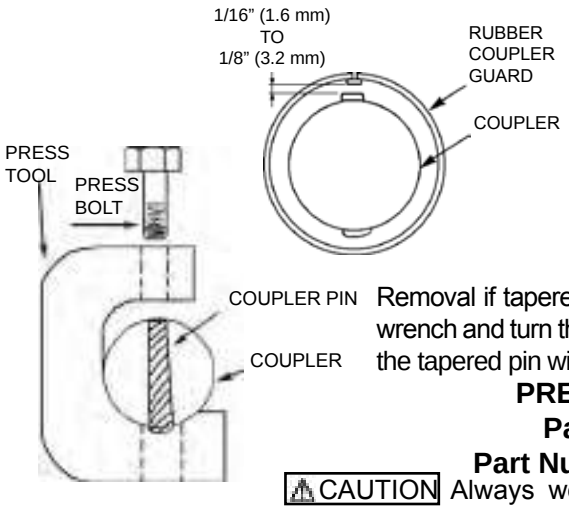
PROPER PROCEDURE FOR INSTALLATION AND REMOVAL OF J.B. COUPLERS AND TAPERED FEEDWHEEL MOTORS

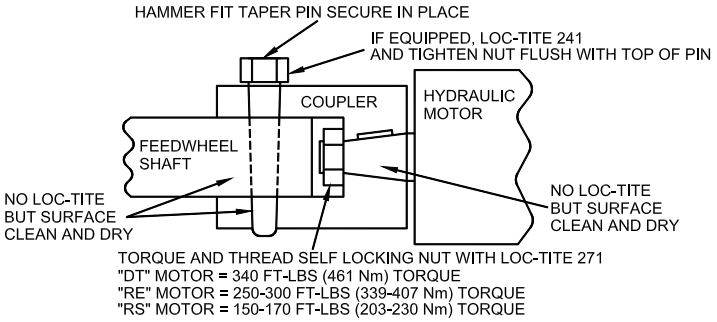
A. **Proper Equipment Needed:**

1. Feedwheel motor with tapered shaft.
2. 5/16" x 9/32" x 1 1/4" long key (900-3937-23) for "DT" motor.
   5/16" x 9/32" x 15/16" long key (900-3934-06) for "RE" motor.
   3/16" x 3/16" x 3/4" long key (900-3937-03) for "RS" motor.
3. Correct feedwheel shaft, coupler and taper pin ass'y
4. Loc-Tite 271 (red).
5. Loc-Tite 241 (blue).
6. Emery cloth and/or a file.
7. A degreaser agent.
8. Self locking nut.
9. Hammer.
10. Torque wrench and
    1 5/8" socket for "DT" motor.
    1 3/8" socket for "RE" motor.
    1 3/16" socket for "RS" motor.
11. 1 1/16" hand wrench for "RE" motor.
    7/8" hand wrench for "RS" motor.

B. **Installation Procedure**

1. Remove any sharp edges on the coupler bores or the motor shaft.
   Example: Emery cloth or file for burrs on keyways or shafts.
2. Clean the coupler bores and motor shaft with a degreasing solvent.
3. Install the correct key in the feedwheel motor shaft.
4. Slide the coupler onto the motor shaft, making sure that the two mate tightly.
   Example: The coupler does not rock or slop on the shaft.
5. Install the self locking nut with Loc-Tite 271 on the threads.
6. Tighten to the correct torque, 340 ft.-lbs. (461 Nm) for "DT" motor, 250-300 ft.-lbs. (339-407 Nm) for "RE" motor, & 150-170 ft.-lbs. (203-230 Nm) for "RS" motor.
7. Slightly tap with a hammer on the coupler face to insure proper seating.
8. Retorque self locking nut.
9. Deburr and degrease the feedwheel shaft.
10. Install the motor and coupler assembly onto the feedwheel shaft.
11. Install the correct tapered pin through the coupler and feedwheel shaft.
12. If coupler pin is threaded and is equipped with a nut, make sure the nut is flush with top of pin.
13. Hammer the pin into the coupler to secure the coupler and feedwheel shaft. If the pin is threaded and has a nut do not hammer the pin directly, use a piece of wood as a buffer.
14. If the tapered pin is equipped with a nut, put Loc-Tite 241 on the threads and then tighten nut flush with top of pin.



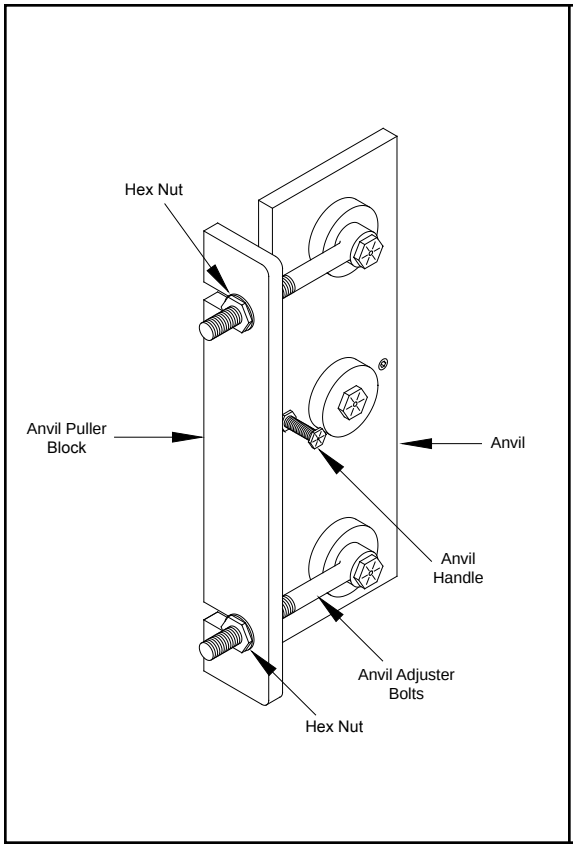


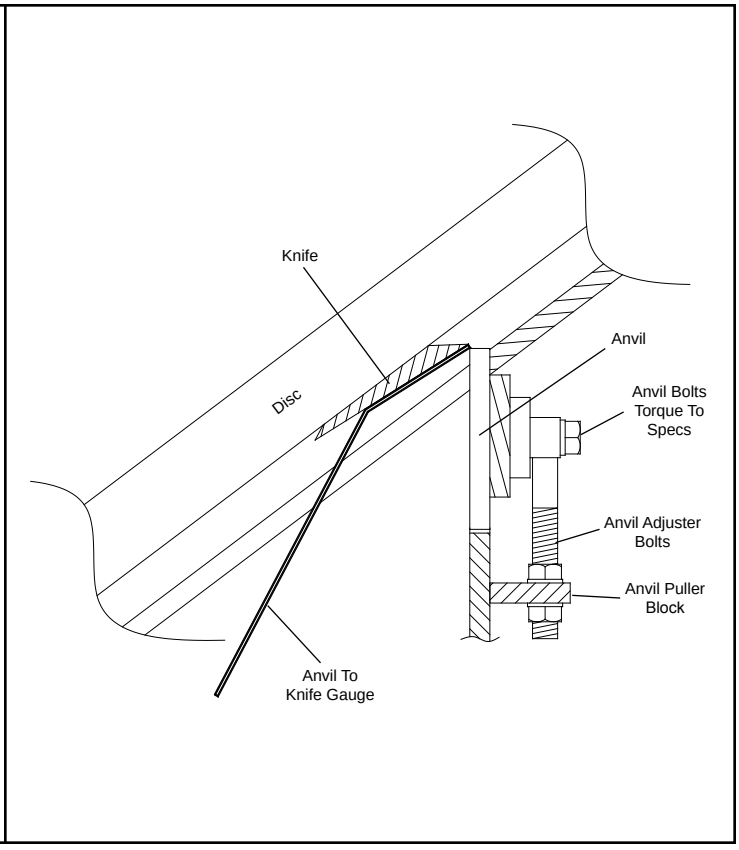
Removal if tapered pin is equipped with a nut to assist in pin removal: Use a hand wrench and turn the tapered pin nut clockwise, half a turn and then hit the small end of the tapered pin with a hammer and punch. Repeat this process until pin is removed.

PRESS TOOL FOR COUPLER PIN REMOVAL
Part Number 981-0501-66 for "DT" Motor
Part Number 981-0501-61 for "RE" and "RS" Motor

CAUTION Always wear proper safety equipment and take caution with tapered pin when attempting to remove. The use of this tool will assist in the removal of the tapered pin in the feedwheel coupler. Lubricate end of bolt and threads with grease. Position the press tool so that it cradles the coupler, with the large end of the tapered pin at the side opposite the press bolt. You may want to remove yoke springs to get easier access to coupler. Set the tool as described and hand tighten press bolt to snug tool against coupler. Make sure press bolt is set on small end of tapered pin, and that pin will go through hole in tool without interference. Use of a 1/2" impact wrench is recommended. Run impact on bolt to start pin removal, then usually a good hit with hammer on the end of bolt will knock out the pin. You may have to run impact on bolt and hit with hammer a few times to remove pin. Do not spend excessive time trying to remove the pin and coupler. If problems occur during pin and coupler removal, contact your nearest dealer or Bandit Industries.

ANVIL ADJUSTMENT

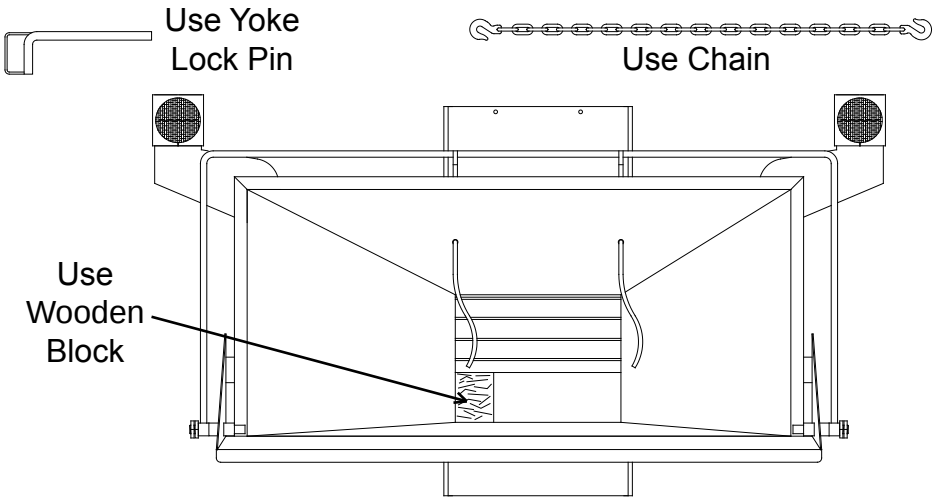




⚠ DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc to come to a complete stop, install the disc lock pin, disconnect battery, and make sure the ignition key is in your possession.

Before working inside the infeed hopper or under the top feedwheel remove the yoke springs from the top yoke, raise the yoke , install the yoke lock pin, safety chain the yoke in the raised position, and insert a wooden block to assist in holding the yoke in the raised position.



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ANVIL ADJUSTMENT cont.

⚠ DANGER

Do Not under any circumstance attempt to rotate the chipper disc while someone is inside the infeed hopper. They may become seriously injured, Do Not Do This!

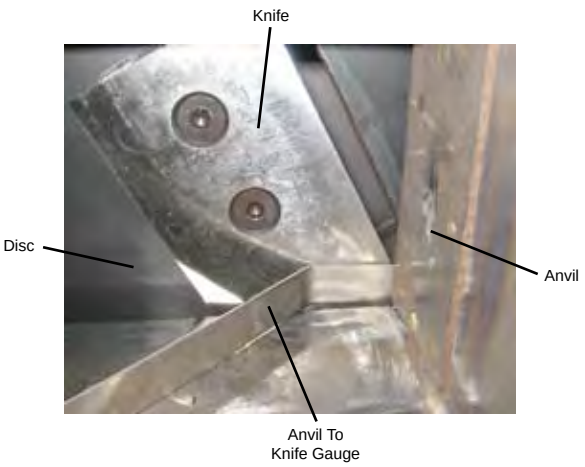
CHECK THE ANVIL TO KNIFE CLEARANCE

1. This clearance should be checked on a weekly basis or as knives are changed. To check the anvil clearance, follow all pre-maintenance shut down procedures. Once all safety procedures are completed the anvil to knife clearance can be checked.
2. In order to check the clearance one person will need to climb into the infeed hopper. Use a feeler gauge or the anvil to knife gauge supplied by Bandit to check the clearance of the first knife to the anvil. Check the clearance at the top and bottom of the anvil.
3. Once that knife has been checked climb back out of the infeed hopper, remove the disc lock pin, and very carefully rotate the chipper disc so the other knives can be checked.
4. Once all knives have been checked adjust the anvil according to the closest knife. The anvil to knife clearance should be .045 to .065 inches (1.1 to 1.7 mm).
5. Set the closet knife to this distance.

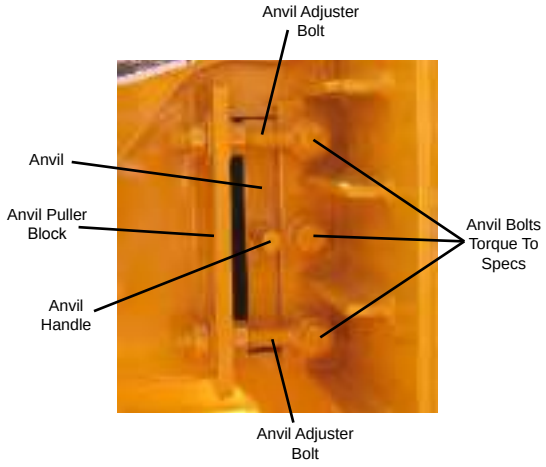
ANVIL ADJUSTMENT PROCEDURE

1. To adjust the anvil first loosen two of the hex nuts on either the inside or outside of the anvil puller block. If the anvil needs to be adjusted closer to the disc, loosen the outside anvil adjuster hex nuts. If the anvil needs to be adjusted away from the disc, loosen the inside anvil adjuster hex nuts.
2. Loosen the anvil mounting bolts.
3. Once the components have been loosened, move the anvil to the correct clearance using the anvil adjuster bolts and hex nuts.
4. Once the knife is set to the correct clearance, .045 to .065 inches (1.1 to 1.7 mm), retighten all components.
5. The anvil handle can be removed if it is stopping the anvil from reaching the correct knife clearance. If removed keep the anvil handle for later use.
6. If the anvil is rotated or flipped to a new working edge, apply Loc-Tite 241 (blue) on the anvil handle and set screw.
7. Make sure bolts are torqued to their specific bolt torques refer to bolt torques on page 45.
8. Carefully rotate the chipper disc to make sure all the knives clear the anvil.

View looking through the feedwheel(s) at the throat area



View looking from the curb side of the machine at the anvil area



SERVICING / CHANGING FEEDWHEEL BEARING
(WITH THE GRIP TIGHT BEARING BEHIND FEEDWHEEL MOTOR)

Your Bandit Chipper maybe equipped with a tapered lock style (Grip Tight) feedwheel bearing on the hydraulic motor side of the feedwheel and a conventional (set screw) style on the opposite side. With the Grip Tight bearing this gives a very positive locking system to the feedwheel shaft. The set screws on both bearings should still be checked as part of normal maintenance.

A few simple rules and installation instructions must be followed if the bearings ever need to be replaced or removed during service.

The machine is set up with one set screw bearing and one Grip Tight bearing because the one Grip Tight bearing is all that is needed to securely hold the feedwheel shaft (along with the set screws on the opposite bearing). This also makes for very easy assembly. **When installing the bearing it is very important to install and lock the Grip Tight bearing first with the set screw bearing done after.** This is to keep the bearings from being put into a side load which will lead to premature failure.

Installation procedure:

1) Clean the feedwheel shaft of all debris, use a degreaser.

2) Install both feedwheel bearings on the feedwheel shaft with the Grip Tight bearing on the hydraulic motor side and the set screw bearing on the opposite side. **Do not lock the bearings on the shaft at this time, allow the feedwheel to shift freely for installation.**

3) Position the feedwheel in the yoke mount and install all (8) feedwheel bearing bolts with a thread locking compound applied. These are completely tightened and torqued at this time (refer to bolt torque chart).

4) The feedwheel then needs to be centered in the yoke and then it must be off set 3/16” (4.8 mm) towards the set screw bearing side (away from the hydraulic motor). The weight of the feedwheel needs to be taken off the bearings also.

5) First the Grip Tight bearing lock nut must be tightened by hand as tight as possible (in a clock wise direction). This is the zero reference point. Scribe a line on the lock nut above the adapter slot.

6) Using a spanner wrench or drift pin and hammer, lock the bearing to the shaft by tightening the lock nut in a clock wise direction. Tighten 3/4 to 1 full turn (you may need to block the feedwheel from turning at this time). Now you can tighten the set screws on the Grip Tight bearing. Note: the set screw is only to be tightened to 25 in.-lbs. (2 ft.-lbs.) (2.7 Nm).

7) Apply a thread locking compound on the set screws of the set screw bearing and torque to 20 ft.-lbs (27 Nm).

Grip Tight Bearing	Set Screw Bearing
	

MAINTENANCE

PROCEDURE FOR UNPLUGGING YOUR CHIPPER

If your chipper is plugging, it is usually caused by allowing the engine to drop below required R.P.M.'s. This can be resolved by simply shutting the feedwheel(s) off when the engine begins to lug down. Operating the engine at speeds lower than full R.P.M.'s causes your chipper to plug. **Always run the chipper at full engine speed.** If your chipper is equipped with the optional autofeed feature, make sure it is set correctly. The setting for the low R.P.M. stop must be high enough not to allow the chipper discharge to plug. Dull chipper knives also contribute to chipper plugging. Dull knives can create slivers and chunks, causing the engine to lug excessively. Both of the aforementioned conditions cause a plugging situation.

STEPS TO FOLLOW WHEN UNPLUGGING YOUR CHIPPER

1. Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession.

2. Make sure the chipper disc/drum is **NOT** turning and then open the hinged portion of the chipper hood.

3. Using gloved hands and some type of raking tool, dig the chips out of the chipper housing.

4. If the discharge chute is plugged, use a raking tool to pull the majority of chips out of the open outlet end of the chute. Then, two people must remove the chute. Do not attempt this with one person, because the chute can fall causing injury. If used properly, a hoist can be used to assist in the removal of the chute.

5. Never allow one person to turn the chipper disc/drum when someone else is working inside the chipper housing. More than likely, the chipper disc/drum will turn hard then loosen causing it to turn faster. If another person is anywhere near the chipper disc/drum, they may be injured.

6. Never turn the chipper disc/drum by hand. Always use a pry bar or wood bar. This will prevent the person turning the disc/drum from being injured should the disc/drum break loose.

7. Reinstall the discharge chute, mount securely and point it in a safe direction away from anything.

8. Never leave the chipper hood open and try to start the engine in order to engage the chipper disc/drum to blow chips out of the housing, this is very hard on the P.T.O. of the chipper and may burn clutch plates. Also, the flying debris is very dangerous. An exposed chipper disc/drum turning very fast creates an unsafe condition. In other words, **DO NOT** start the chipper with the hood open because it is just too dangerous.

9. Once the disc/drum turns freely, close the chipper hood, insert the hood pin, install the padlock in the hood pin, reinstall the chipper hood engine disable plug, make sure the spring lock for hood pin springs back to the correct operating position on disc chippers, start engine, properly engage clutch and throttle to full speed. Insert a small branch into the feedwheel(s). If the chips discharge properly, the chipper is clear and normal operation may resume.

PAINT CARE

To help keep up the appearance of your Bandit Equipment and reduce the possibility of surface rust follow these steps:

1) The machine should be washed on a regular basis with a non-abrasive mild detergent and then rinsed thoroughly. Do not pressure wash sensitive areas like: decals, gauges, electronic devices, autofeed control, etc.
2) If a stone chip, paint scratch, or paint crack occurs - it should be repaired immediately. Simply sand the edges of the damaged paint area, mask off the surrounding area and apply primer and paint to the dry, clean, and warm surface. This will help keep the damaged area from spreading or getting worse.
3) If you are unable to sand and mask the area, there are containers of primer and paint available. A small brush can be used to touch up the area.
4) Also, primer and most colors of paint are available in aerosol spray cans to simply spray over the effected area after it is cleaned, dry, and warmed. This method is not as reliable as the process in step #2.

It is also reported that some equipment owners polish their machine at least yearly, and keep good mud flaps on their towing trucks.



TIRE WEAR DIAGNOSTIC CHART

Wear Pattern		Cause	Action
	Center Wear	Over Inflation	Adjust pressure to particular load per tire catalog
	Edge Wear	Under Inflation	Adjust pressure to particular load per tire catalog
	Side Wear	Not Hauling Trailer Level Bent Axles Wide Tires Wheel Bearings	Must be hauled parallel to ground Replace as needed Characteristic of wide flotation tires Adjust or replace
	Cupping	Out-Of-Balance Wheel Bearings	Check bearing adjustment and balance tires Adjust or replace
	Flat Spots	Wheel Lock Up & Tire Skidding	Avoid sudden stops when possible and adjust brakes.

The wear pattern and tread life of tires involves many variables that the user has control of, but DOES NOT fall under faulty manufacture or design.

The following is a list of some causes supplied by tire suppliers and axle manufacturers:

- Misalignment - from rough roads, pot holes, excessive speeds and hitting curbs.
- Tire Width - the wider the tire for flotation, the more uneven the tire wear.
- Tire Air Pressure - to much or too little, for the load.
- Vehicle Hitch Height - if trailer is not level with ground, axle camber is misaligned.
- Maintenance - wheel bearing lubrication and adjustment. Follow axle MFG. instructions.
- Brakes - uneven or misadjusted brakes cause irregular brake activation.

RECOMMENDED BRAKE ADJUSTMENT PROCEDURE PER AXLE MANUFACTURER.

The proper clearance between the shoe and drum surfaces will be set up initially from our factory to assure proper operation during the normal break in period. No further adjustment will be necessary until the vehicle completes the recommended break in period of 200 miles (322 km).

Since all brakes of this type must be burnished or ”run in” before their full effectiveness can be achieved, the MFG. maintenance manuals call for readjustment after the first 200 miles (322 km) of operation. This usually allows ample time for the burnishing to take place. Readjustments are not necessary for brakes fitted with self-adjustment features although periodic inspection is suggested.

The following shows the correct adjustment for the MFG. brakes of 7” diameter, 10” diameter, and 12 1/4” diameter.

NOTICE Clearances that are too small will result in excessive drag and overheating while too much clearance can render the brake nonfunctional.

AXLE SIZE	SIZE	TYPE	DIAMETRAL CLEARANCE	CLICKS TO BACK OFF
2200 LBS.	7” X 1 1/4”	Electric	.030” (.8 mm)	9 TO 18
2200 LBS.	7” X 1 3/4”	Hydraulic	.030” (.8 mm)	6 TO 13
3500 LBS.	10” X 2.25”	Elec. or Hyd.	.040” (1 mm)	10 TO 16
7000 LBS.	12 1/4” X 2.5”	Elec. or Hyd.	.040” (1 mm)	7 TO 13

For additional brake adjustment procedures consult the axle manufacturer manual.

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HYDRAULIC SECTION

⚠ WARNING

DO NOT GO NEAR HYDRAULIC LEAKS!

High pressure oil easily punctures skin causing serious injury, gangrene, or death. If injured, seek emergency medical help. Immediate surgery is required to remove oil. DO NOT use fingers or skin to check for leaks. Lower load or relieve hydraulic pressure before loosening fittings.

⚠ WARNING

DO NOT operate this machine unless all hydraulic control devices operate properly. They must function, shift and position smoothly and accurately at all times. Faulty controls can cause personal injury!

HYDRAULIC FLUID REQUIREMENTS

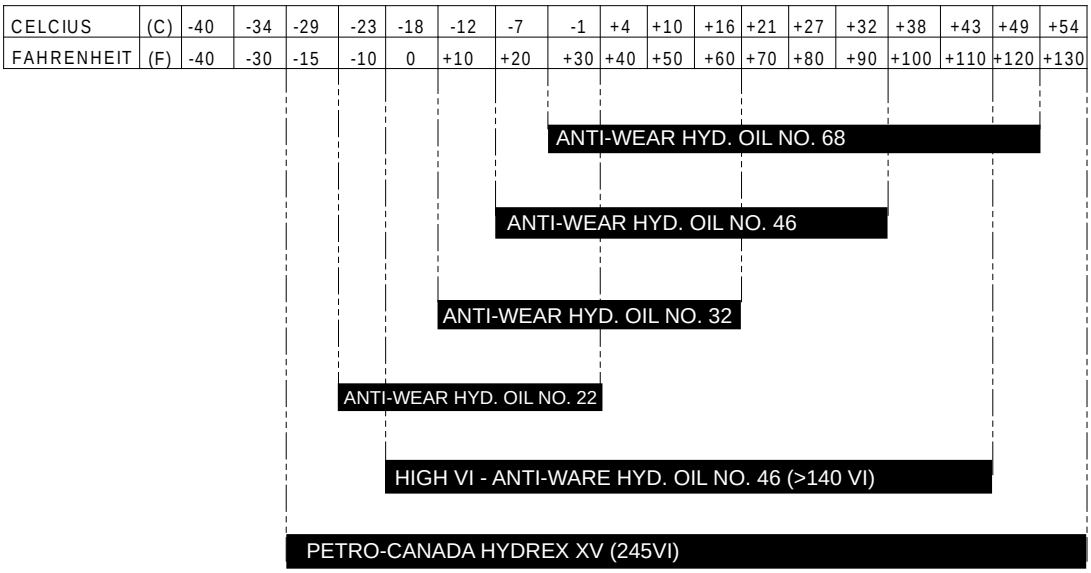
This machine is equipped with “Petro-Canada Hydrex XV” hydraulic fluid. It is recommended to replace with the same. “Petro-Canada Hydrex XV” is an all season hydraulic fluid. This is a premium performance, long life anti-wear, hydraulic fluid, designed for all season use in heavy duty hydraulic systems. “Petro-Canada Hydrex XV” allows year round use under wide extremes of temperature. It allows the hydraulic system to start at temperatures as low as -40°C/-40°F, under no load conditions and it improves lubrication of hydraulic components at high operating temperatures. It will also help protect against hydraulic failures during the wide temperature swings of spring and fall. To find the closest “Petro-Canada Hydrex XV” dealer call 1-888-284-4572.

Multi Viscosity motor oils are not recommended to mix with “Petro-Canada Hydrex XV” hydraulic oil. AW oils may mix with “Petro-Canada Hydrex XV” hydraulic oil. The following are specifications and authorizations of compatible oils. Only a high quality anti-wear (AW) hydraulic oil containing foam, corrosion, rust and oxidation inhibitors should be used. This viscosity grade depends on the oil temperature in service, based on the climate and operating conditions.

	Hydrex XV	ISO 22, AW	ISO 32, AW	ISO 46, AW	ISO 68, AW	ISO 100, AW
Viscosity Index	>235	>95	>95	>95	>95	>95
Flash Point	>240°C /464°F	>200°C /395°F	>210°C /410°F	>220°C /430°F	>220°C /430°F	>240°C /464°F
Oxidations Stability (ASTM D0943)	>9,000 Hours	>3,000 Hours	>3,000 Hours	>3,000 Hours	>3,000 Hours	>3,000 Hours
Cold Start-up, No Load, Max	-40°C/-40°F	-34°C/-29°F	-26°C/-14°F	-19°C/-3°F	-9°C/16°F	-4°C/24°F

HYDRAULIC SECTION

Alternate hydraulic oils are available, but they do not equal the performance or longevity of the “Hydrex XV” oil. Consult the following information supplied by the oil distributor.



Note: The above chart is a suggested guide for viscosity of hydraulic fluids at start up ambient temperature. The load, demand, and cleanliness of the equipment will affect actual oil temperatures which can increase dramatically above ambient air temperatures during operation. The actual viscosity needed is based on oil temperature during operation and not air temperature. Compare your fluid specifications with the specifications below to verify compliance.

When choosing a hydraulic fluid - these maximum and minimum specifications must be met:

Minimum Viscosity during operation = 12 cSt
Maximum No-Load Viscosity at start-up = 2000 cSt

Hydraulic fluids vary in their resistance to oxidation at elevated temperatures, their ability to protect against metal-to-metal contact under increasing temperature, and their ability to separate water from the fluid. Viscosity is temperature dependant. Fluids with high viscosity-index (VI) will thin out slower at higher temperature and thicken slower at colder temperatures allowing a wider operating range. Choose a fluid that has test results in these areas for best results.

Based on the varying temperatures of the area where Bandit equipment is used, and the high demand and loads placed on this equipment, Bandit has filled each hydraulic system with Petro-Canada’s Hydrex XV All Season Hydraulic Fluid for maximum protection and performance.

Contact Petro Canada at (888) 284-4572 to find a dealer near you.

NOTICE

Some equipment and components such as fluid engagement clutch’s (PTO’s) have their own lubrication requirements. Consult their manufactures manual for that information.

MODEL 65

TYPICAL HYDRAULIC RELIEF PRESSURE SETTINGS
TYPICAL HYDRAULIC FLOWS AND RPM SETTINGS
(Approximate, For Reference Only, Engine At Full RPM)

Equipment Model	65 2-Knife	65 3-Knife	65 PTO 2-Knife 540 RPM	65 PTO 3-Knife 540 RPM	65 2-Knife Dual Feedwheels	65 3-Knife Dual Feedwheels
Pump GPM (LPM)	3.25 (12.3)	4.75 (18.0)	3.0 (11.4)	4.3 (16.3)	5.5 (20.8)	8.2 (31.0)
Top Feedwheel GPM (LPM)	3.25 (12.3)	4.75 (18.0)	3.0 (11.4)	4.3 (16.3)	2.75 (10.4)	4.1 (15.5)
Bottom Feedwheel GPM (LPM)	N/A	N/A	N/A	N/A	2.75 (10.4)	4.1 (15.5)
Feedwheel RPM	30-31	44-45	27-28	40-41	30-31	38-39
If Equipped Main Relief PSI (bar)	1800 (124)	1800 (124)	1800 (124)	1800 (124)	1800 (124)	1800 (124)
Feed Relief PSI (bar)	1800 (124)	1800 (124)	1800 (124)	1800 (124)	1800 (124)	1800 (124)
Chip Box Cylinder PSI (bar)	2500 (172)	2500 (172)	N/A	N/A	N/A	N/A

NOTICE

DO NOT UNDER ANY CIRCUMSTANCES OVER-SET THESE RELIEF PRESSURES, BECAUSE IT WILL CAUSE DAMAGE TO COMPONENT PARTS AS WELL AS HYDRAULIC PARTS.

NOTICE

These Typical Hydraulic Flows And Relief Pressure Settings Are With The Engine At Full RPM. All Settings Are Subject To Change!

⚠ CAUTION

After the initial start-up of the machine and after any replacement of hydraulic components, that fittings and hoses should be re-checked for leaks and clearances.

MODEL 95

TYPICAL HYDRAULIC RELIEF PRESSURE SETTINGS
TYPICAL HYDRAULIC FLOWS AND RPM SETTINGS
(Approximate, For Reference Only, Engine At Full RPM)

Equipment Model	95 2-Knife	95 3-Knife	95 PTO 2-Knife 540 RPM	95 PTO 2-Knife 1000 RPM	95 PTO 3-Knife 540 RPM	95 PTO 3-Knife 1000 RPM
Pump GPM (LPM)	4.5 (17.0)	7.5 (28.4)	3.5 (13.2)	3.5 (13.2)	4.7 (17.8)	4.7 (17.8)
Feedwheel GPM (LPM)	4.5 (17.0)	7.5 (28.4)	3.5 (13.2)	3.5 (13.2)	4.7 (17.8)	4.7 (17.8)
Feedwheel RPM	34-35	52-53	23-24	23-24	31-32	31-32
(If Equipped) Main Relief PSI (bar)	2000 (138)	2000 (138)	2000 (138)	2000 (138)	2000 (138)	2000 (138)
Feed Relief PSI (bar)	2000 (138)	2000 (138)	2000 (138)	2000 (138)	2000 (138)	2000 (138)
Yoke Relief PSI (bar)	800 (55)	800 (55)	800 (55)	800 (55)	800 (55)	800 (55)
Chip Box Cylinder PSI (bar)	2500 (172)	2500 (172)	N/A	N/A	N/A	N/A
Winch Relief PSI (bar)	2200 (152)	2200 (152)	2200 (152)	2200 (152)	2200 (152)	2200 (152)
Disch. Rotate PSI (bar)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)
Disch. Flipper PSI (bar)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)	500-800 (34-55)
Tongue Jack PSI (bar)	2200 (152)	2200 (152)	N/A	N/A	N/A	N/A

NOTICE

DO NOT UNDER ANY CIRCUMSTANCES OVER-SET THESE RELIEF PRESSURES, BECAUSE IT WILL CAUSE DAMAGE TO COMPONENT PARTS AS WELL AS HYDRAULIC PARTS.

NOTICE

These Typical Hydraulic Flows And Relief Pressure Settings Are With The Engine At Full RPM. All Settings Are Subject To Change!

⚠ CAUTION

After the initial start-up of the machine and after any replacement of hydraulic components, that fittings and hoses should be re-checked for leaks and clearances.

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HYDRAULIC SECTION
THE BANDIT HYDRAULIC SYSTEM

The Bandit is equipped with a very efficient, simple hydraulic system. Each component is capable of withstanding a specified PSI (bar) and still operate for a very long time.

If the simple rules mentioned below are followed, the hydraulic components will last for years:

•After you have operated a new machine for approximately an hour shut down the machine and recheck all hydraulic fittings for tightness and leaks.

• Avoid hydraulic pump cavitation. Low oil levels or cold start-ups will cause the hydraulic pump to cavitate. Cavitation will ruin the pump and possibly the entire hydraulic system. Cavitation only has to happen once. This will start the pump on its way to ruin. Allow hydraulic system to turn slowly for several minutes in cold weather in order for hydraulic system to warm up. Cavitation is not covered under warranty.

• Do not increase the feedwheel relief valve settings beyond specified PSI (bar). This will cause damage to hydraulic components. Do not set any other hydraulic component past it's specified pressure or this will cause damage to the hydraulic components.

• Keep hydraulic oil clean. Dirty oil will cause excessive wear and loss of hydraulic power.

• Replace the hydraulic oil filter(s) after first 10 hours and with each 400 hours of operation or 3 months.

• Replace hydraulic oil & suction screen(s) at least once yearly. This is also a very good time to flush and clean the tank. Replace hydraulic oil immediately if it is contaminated or looks "milky". See pages 62 - 63 for hydraulic oil requirements.

• If the Bandit's hydraulic system is kept clean and the hydraulic pressures are not increased beyond the specified PSI (bar), the maximum use and life should be received from the Bandit chipper hydraulic system.

• If a problem is encountered, it will more than likely be located in the relief valve or something as simple as belts or clutch slipping, check these first.

• Only use the optional adjustable flow control when chipping large diameter trees. Do not leave the speed adjustment partially open for long periods of time. This will cause excessive heat to the hydraulic system! Excessive heat will cause low feedwheel power and premature failure of all hydraulic components. Always operate system at full oil flow unless chipping large diameter trees.

• Do not close the optional hydraulic shut-off valve for more than 3 to 4 seconds. Hydraulic shut-off valve handle must be completely turned on (in line with hose) at all times unless checking hydraulic pressure. Pressure gauge should be safely stored and installed only when checking pressure. Follow above instructions or this will cause unwarranted damage to the hydraulic components.

• Never close the ball valves on the hydraulic tank suction ports (if equipped) while the machine is running, this will ruin the hydraulic pump and components.

• Some component manufacturers require different specific hydraulic lubrication, such as gear boxes, undercarriage drives, etc. Refer to their manuals and maintenance section of this manual.

HYDRAULIC COMPONENTS

Feedwheel hydraulic motor(s):
These hydraulic motor(s) are attached to the feedwheel(s) by a tapered feedwheel motor connection or by a clamp style connection.

Hydraulic pump:
The hydraulic pump could be bolted directly to the engine, or may be driven by a sheave/belt combination off of the chipper shaft.

Suction strainer(s):
This strainer(s) stops contaminants from reaching the hydraulic pump. The suction strainer(s) should be replaced at least once yearly or every 2000 hours.

Hydraulic tank:
This tank must be kept clean and filled minimum 7/8 full. Clean tank yearly.

Filter:
This spin-on cartridge filter must be replaced per maintenance schedule.

Filter mount:
The filter is tightened on the Filter Mount.

Feedwheel valve:
This valve is actuated by the control bar. The valve actuates the feedwheel for forward, off or reverse. It may also contain an adjustable relief valve.

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HYDRAULIC SECTION

⚠ WARNING

It is very important after you have operated a new machine for approximately an hour to shut down the machine and recheck all hydraulic fittings. Retighten as needed.

DO NOT GO NEAR HYDRAULIC LEAKS! High pressure oil easily punctures skin causing serious injury, gangrene, or death. Avoid burns from fluid. Hot fluid under pressure can cause severe burns. DO NOT use fingers or skin to check for leaks. Lower load or relieve hydraulic pressure before loosening fittings. Relieve all pressure in the system before disconnecting the lines, hoses, or performing other work. Use a piece of cardboard to find leaks. Never use your bare hands. Allow system to cool down to ambient temperature before opening any coolant or hydraulic oil system.

In cold weather situations let your hydraulic system idle for approximately 15 minutes to allow the system to warm up to operating temperature.

⚠ WARNING

DO NOT operate this machine unless all hydraulic control devices operate properly. They must function, shift and position smoothly and accurately at all times. Faulty controls can cause personal injury!

NOTICE

Some equipment and components such as fluid engagement clutch's (PTO's) have their own lubrication requirements. Consult their manufactures manual for that information.

⚠ DANGER

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc/drum to come to a complete stop, switch the battery disconnect to the off position, and make sure the ignition key is in your possession.

NOTICE

DO NOT UNDER ANY CIRCUMSTANCES OVER-SET THESE RELIEF PRESSURES, BECAUSE IT WILL CAUSE DAMAGE TO COMPONENT PARTS AS WELL AS HYDRAULIC PARTS.

NOTICE

These Typical Hydraulic Flows And Relief Pressure Settings Are With The Engine At Full RPM. All Settings Are Subject To Change!

⚠ CAUTION

After the initial start-up of the machine and after any replacement of hydraulic components, that fittings and hoses should be re-checked for leaks and clearances.

NOTICE

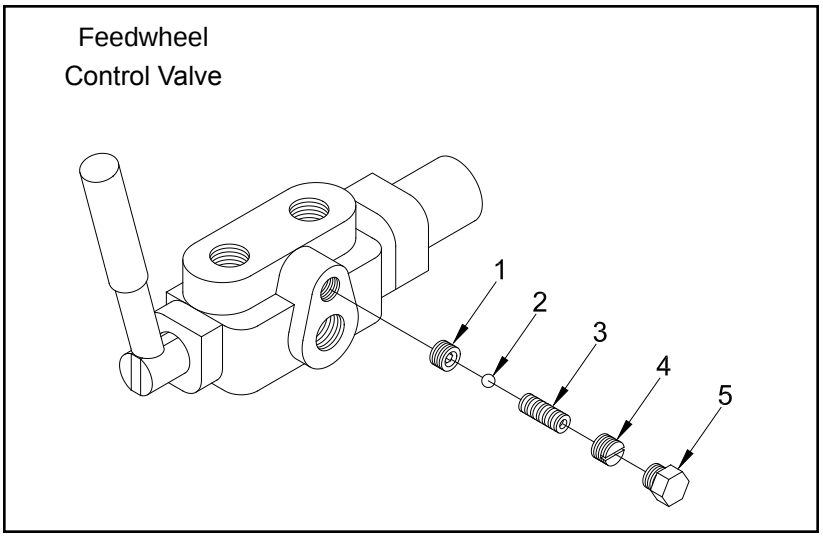
When returning hydraulic components for warranty make sure to box up all warranted parts to avoid additional damage while shipping. **Do not disassemble any hydraulic components which are to be warranted.** Anything which has been disassembled or tampered with will not be warranted. Items being returned must be clean. All hydraulic components must have all hosing ports plugged. Failure to plug ports will allow debris to enter components which will void warranty.

HYDRAULIC SECTION

THE BANDIT CHIPPER IS EQUIPPED WITH ONE OF THREE POSSIBLE MAIN RELIEF HYDRAULIC PRESSURE ADJUSTMENT PROCEDURES

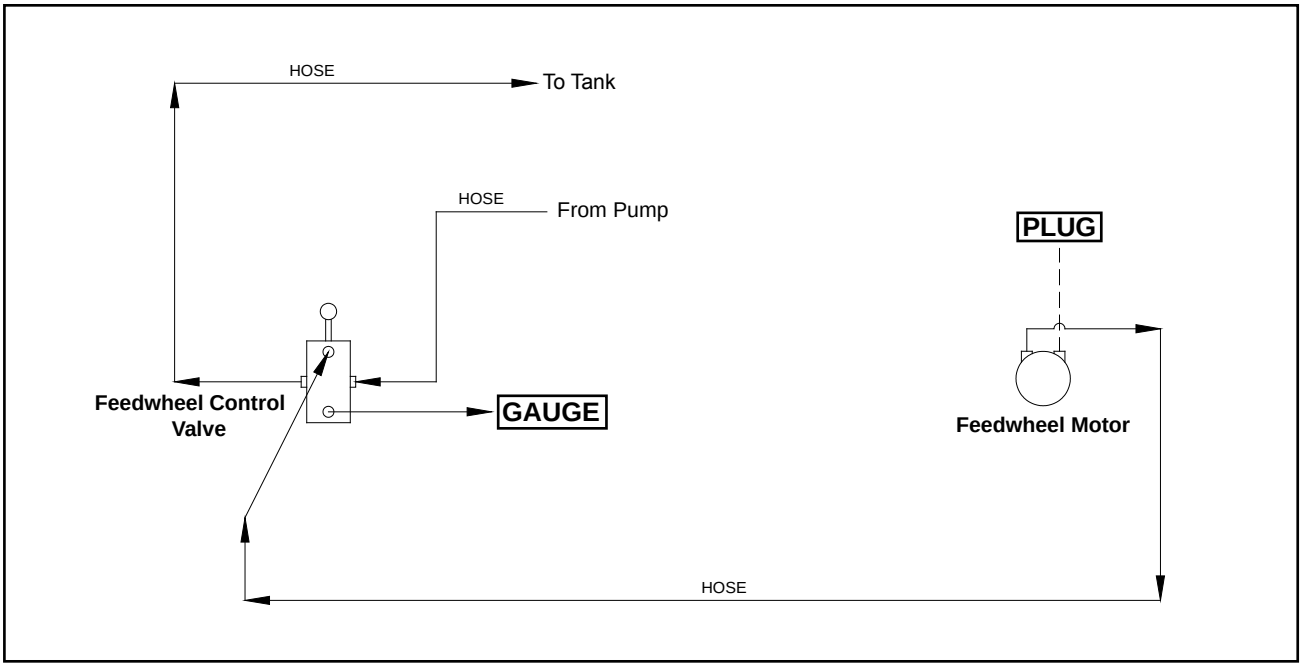
PROCEDURE 1 FOR MODELS 65/95 WITH NO OPTIONS

The relief valve is typically located internally in the control valve. Do not adjust this relief valve above 2500 PSI (172 bar). The relief valve system is a simple spring tension design but small pieces of debris can stick the valve partially open which weakens the feedwheel power. The relief as well as hydraulic oil, and screen must be kept clean.



1. **VALVE SEAT:**
   The springs pushes the relief valve ball against it, until pressure builds.
2. **POPPIT VALVE:**
   This ball opens and closes to relieve excess pressure on hydraulic system.
3. **RELIEF SPRING:**
   This spring tensions the amount of pressure required to open the relief valve ball. This spring weakens and must be checked and/or readjusted every month for best performance.
4. **SLOTTED SET SCREW:**
   Turn clockwise to increase pressure, but do not surpass maximum of the specified PSI (bar).
5. **HEX HEAD PLUG:**
   Remove to access the relief valve.

YOUR BANDIT CHIPPER IS EQUIPPED WITH ONE OF THREE HYDRAULIC PRESSURE ADJUSTMENT PROCEDURE OPTIONS.



⚠ WARNING

PROCEDURE 1 FOR MODELS 65/95 WITH NO OPTIONS cont.

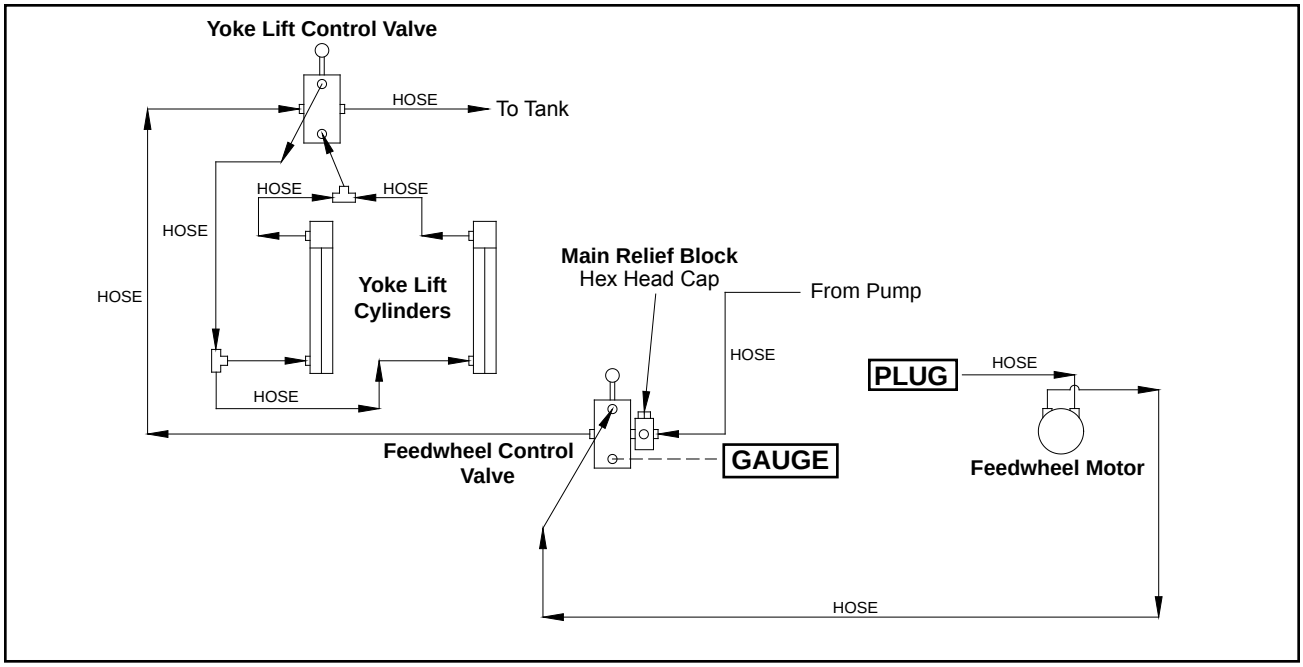
CHECKING AND ADJUSTING RELIEF VALVE PRESSURE

Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed correctly.

1. First put the control handle in the off position.
2. Disconnect the hydraulic hose going from the control valve to the feedwheel motor at the feedwheel control valve end.
3. Leave all other hydraulic hoses connected.
4. Install pressure gauge in port on the control valve from which the hose was disconnected and plug the end of the hose.
5. Start engine with the control handle in the off position.
6. Adjust engine to full throttle.
7. Engage control handle to the normal operating position to activate a reading on the pressure gauge.
8. Pressure gauge should read maximum specified PSI (bar).
   ONLY ENGAGE CONTROL HANDLE FOR 4-5 SECONDS TO SET PRESSURE OR YOU MAY DAMAGE HYDRAULICS.
9. Readjust relief pressure setting if needed, if not needed, shut off engine and remove plug and gauge. Reassemble the hose to the control valve.
10. Check for hydraulic leaks.
11. Relief valve pressure should be checked and/or readjusted every month for best performance.

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

YOUR BANDIT CHIPPER IS EQUIPPED WITH ONE OF THREE HYDRAULIC PRESSURE ADJUSTMENT PROCEDURE OPTIONS.



⚠ WARNING

PROCEDURE 2 FOR MODELS 65/95 WITH OPTIONS

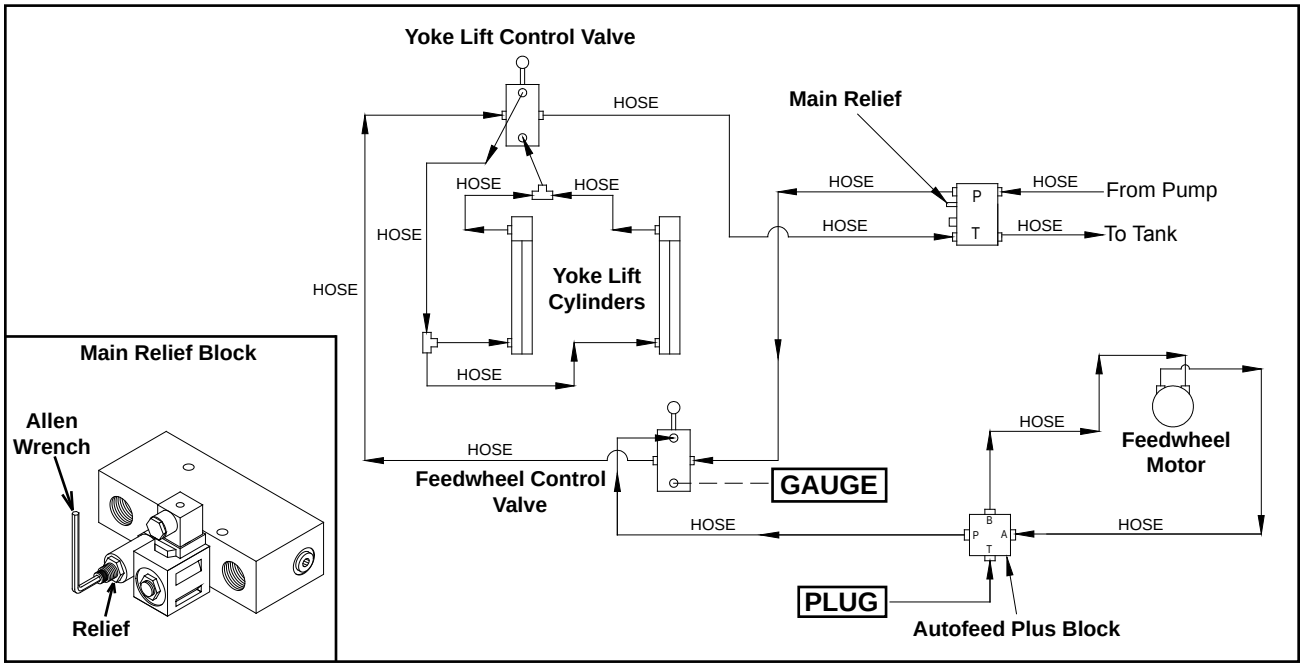
(SHOWN WITH LIFT CYLINDER OPTION)

Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed correctly.

1. First put the control handle in the off position.
2. Disconnect the hydraulic hose going from the control valve to the feedwheel motor at the feedwheel control valve end.
3. Leave all other hydraulic hoses connected.
4. Install pressure gauge in port on feedwheel control valve where you disconnected the hose and plug the end of the hose.
5. Start engine with the control handle in the off position.
6. Adjust engine to full throttle.
7. Engage control handle to the normal operating position to activate a reading on the pressure gauge.
8. Pressure gauge should read maximum specified PSI (bar).
   ONLY ENGAGE CONTROL HANDLE FOR 4-5 SECONDS TO SET PRESSURE OR YOU MAY DAMAGE HYDRAULICS.
9. Readjust relief pressure setting by first removing hex head cap, then loosen the jam nut, finally use an allen wrench to adjust pressure setting, if needed. If not needed, shut off engine and remove plug and gauge.
10. Reassemble hose from feedwheel motor to feedwheel control valve.
11. Check for hydraulic leaks.
12. Relief valve pressure should be checked and/or readjusted every month for best performance.

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

YOUR BANDIT CHIPPER IS EQUIPPED WITH ONE OF THREE HYDRAULIC PRESSURE ADJUSTMENT PROCEDURE OPTIONS.



⚠ WARNING

PROCEDURE 3 FOR MODELS 65/95 WITH OPTIONS

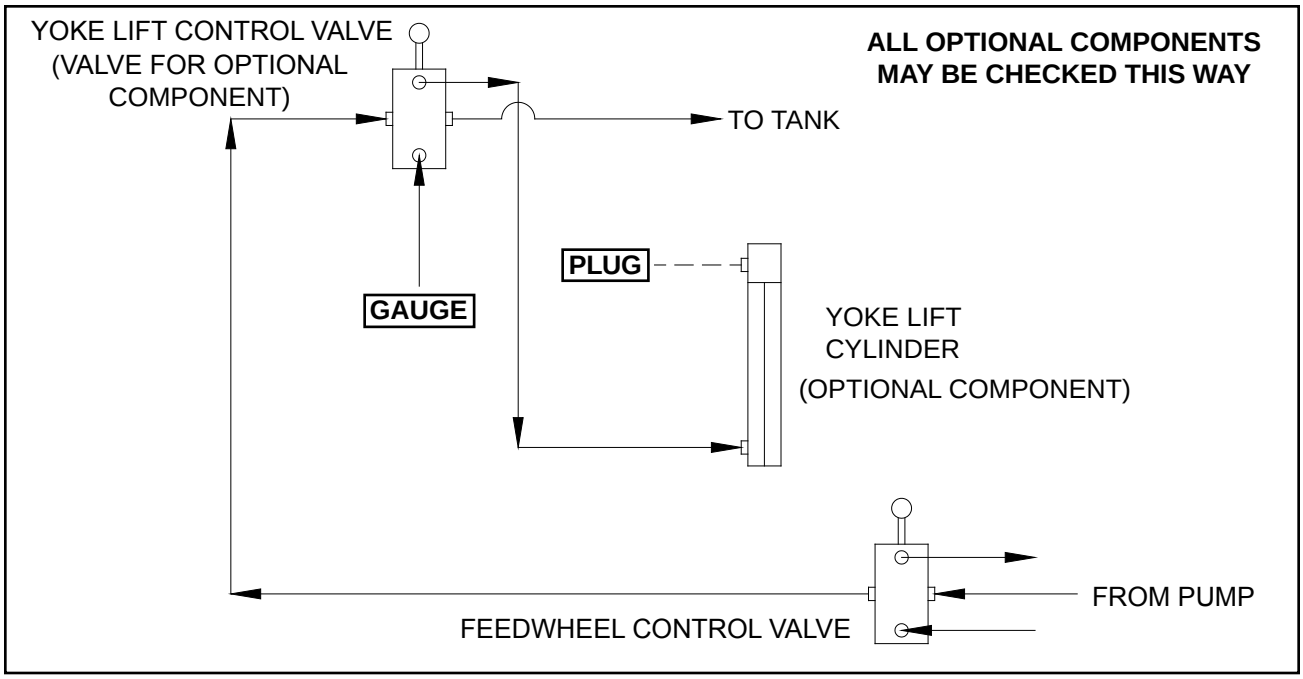
(SHOWN AUTOFEED PLUS AND LIFT CYLINDER OPTIONS COMBINED)

Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed correctly.

1. First put the control handle in the off position.
2. Disconnect hydraulic hose going from autofeed plus block to feedwheel control valve at the feedwheel control valve end.
3. Leave all other hydraulic hoses connected.
4. Install pressure gauge in port on feedwheel control valve where you disconnected the hose and plug the end of the hose.
5. Start engine with the control handle in the off position.
6. Adjust engine to full throttle.
7. Engage control handle to the normal operating position to activate a reading on the pressure gauge.
8. Pressure gauge should read maximum specified PSI (bar).
   ONLY ENGAGE CONTROL HANDLE FOR 4-5 SECONDS TO SET PRESSURE OR YOU MAY DAMAGE HYDRAULICS.
9. Locate relief next to autofeed solenoid, loosen jam nut, use an allen wrench to readjust relief pressure setting if needed, and then retighten jam nut.
10. Reassemble hose from autofeed plus block to feedwheel control valve.
11. Check for hydraulic leaks.
12. Relief valve pressure should be checked and/or readjusted every month for best performance.

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

PROCEDURE FOR CHECKING OPTIONAL HYDRAULIC COMPONENTS



⚠ WARNING

MODELS 65/95 PROCEDURE

Before attempting any hydraulic pressure settings, make sure engine is shut off, engine key removed and in your possession, hydraulic oil is clean, hydraulic tank is 7/8 full, and the machine has been pre-run to warm the hydraulic oil. To correctly check relief valve pressure, gauge MUST be installed correctly.

1. First put control handle in off position.
2. Disconnect hose coming out of the port farthest from the handle of the control valve from the optional motor or cylinder, and plug the hose.
3. Leave all other hydraulic hoses connected.
4. Install pressure gauge in the valve port which had the hose of the optional motor or cylinder disconnected.
5. Start engine with the control handle in the off position.
6. Adjust engine to full throttle.
7. Only operate the valve for that component to activate pressure gauge. Pressure gauge should read the maximum specified PSI (bar) for that component, see pages 64 - 65.
   ONLY OPERATE VALVE FOR 4-5 SECONDS TO SET PRESSURE OR YOU MAY DAMAGE HYDRAULICS.
8. Readjust relief pressure setting if needed, if not needed, shut off engine and remove plug and pressure gauge. Reassemble control valve to optional motor or cylinder.
9. Check for hydraulic leaks.
10. Relief valve pressure should be checked and/or readjusted every month for best performance.

MAINTAIN HYDRAULIC PRESSURE AT THE SPECIFIED PSI (bar).

HYDRAULIC SYSTEM TROUBLE SHOOTING

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession!

PROBLEM	POSSIBLE CAUSE	SOLUTION
Feedwheel(s) turn at normal speed but does not chip wood properly	1. Dull Knives 2. Worn feed teeth 3. Low feedwheel relief valve setting 4. Pump is worn 5. Motor is weak 6. Feedwheel springs too loose 7. Clutch / belts out of adjustment 8. Engine not running at full rpms	1. Replace knives 2. Replace 3. Readjust to specified PSI (bar) 4. Replace 5. Replace 6. Adjust 7. Adjust 8. Adjust
Feedwheel(s) slow or stop when feeding	1. Dull knives 2. Relief valve is worn or dirty 3. Pump is worn 4. Motor is worn 5. Feedwheel springs too tight 6. Feedwheel slide box sticking or hanging up	1. Replace knives 2. Clean, reset or replace 3. Replace 4. Replace 5. Adjust 6. Lubricate
Feedwheel(s) turn slowly or not at all	1. Relief valve stuck open 2. Worn hydraulic motor 3. Pump is worn 4. Feedwheel relief pressure off 5. Pinched or damaged hydraulic hose 6. Feedwheel valve (control valve) worn & leaking internally 7. Low hydraulic oil level 8. Plugged oil screen 9. Binding such as worn bearings, etc. 10. Control lever improperly shifting valve	1. Clean or replace 2. Replace 3. Replace 4. Reset to specified PSI (bar) 5. Replace 6. Replace 7. Fill 7/8 full minimum 8. Replace 9. Repair 10. Readjust, valve must open completely
Hydraulic oil very hot, causing system to operate slowly	1. Dull knives 2. Low oil level 3. Pump is worn 4. Relief valve stuck open or opens easily 5. Damaged hose 6. Oil suction screen or filter plugged 7. Oil cooler plugged, if equipped 8. Motor is worn 9. Binding 10. Operator running oil over relief too much 11. Flow control is on for too long	1. Replace knives 2. Fill 7/8 full minimum 3. Replace 4. Clean, reset or replace 5. Replace 6. Clean or replace 7. Clean 8. Replace 9. Repair 10. Don't 11. Open flow control

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

Follow typical hydraulic flow and relief settings on pages 64 - 72.
Follow proper hydraulic oil requirements on pages 62 - 63.

CORRECTING HYDRAULIC PROBLEMS

Before attempting any type of maintenance disengage clutch, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession!

COMPONENT	PROCEDURE
Checking relief valve setting	Refer to the hydraulic pressure adjustment procedure section of the manual to find the correct procedure for checking relief valve setting. (pgs. 68 - 72)
Adjusting relief valve setting	Refer to the hydraulic pressure adjustment procedure section of the manual to find the correct procedure for adjusting relief valve pressure settings. (pgs. 68 - 72)
Cleaning relief valve (with engine shut off)	1. Remove plug from feedwheel valve (control valve), see illustration of relief valve components. (pg. 68) 2. Unscrew slotted set screw completely out of the valve. 3. Remove poppit spring. 4. Remove poppit ball. 5. Clean all parts, inspect for damage and blow out relief hole with air. 6. Reassemble, set and maintain feedwheel hydraulic pressure at specified PSI (bar).
Checking for defective pump	1. See pages 76 - 77 on how to check a hydraulic pump.
Checking for defective motor	1. If everything checks out as correct, it may be time to check the hydraulic motor. 2. If your machine has Live Hydraulics, see page 75 on how to check a hydraulic motor. 3. If your machine does not have Live Hydraulics, contact your local dealer or Bandit Industries for instructions.

NOTICE

When returning hydraulic components for warranty make sure to box up all warranted parts to avoid additional damage while shipping. **Do not disassemble any hydraulic components which are to be warranted.** Anything which has been disassembled or tampered with will not be warranted. Items being returned must be clean. All hydraulic components must have all hosing ports plugged. Failure to plug ports will allow debris to enter components which will void warranty.

MAINTAIN FEEDWHEEL HYDRAULIC PRESSURE AT SPECIFIED PSI (bar).

Follow typical hydraulic flow and relief settings on pages 64 - 72.
Follow proper hydraulic oil requirements on pages 62 - 63.

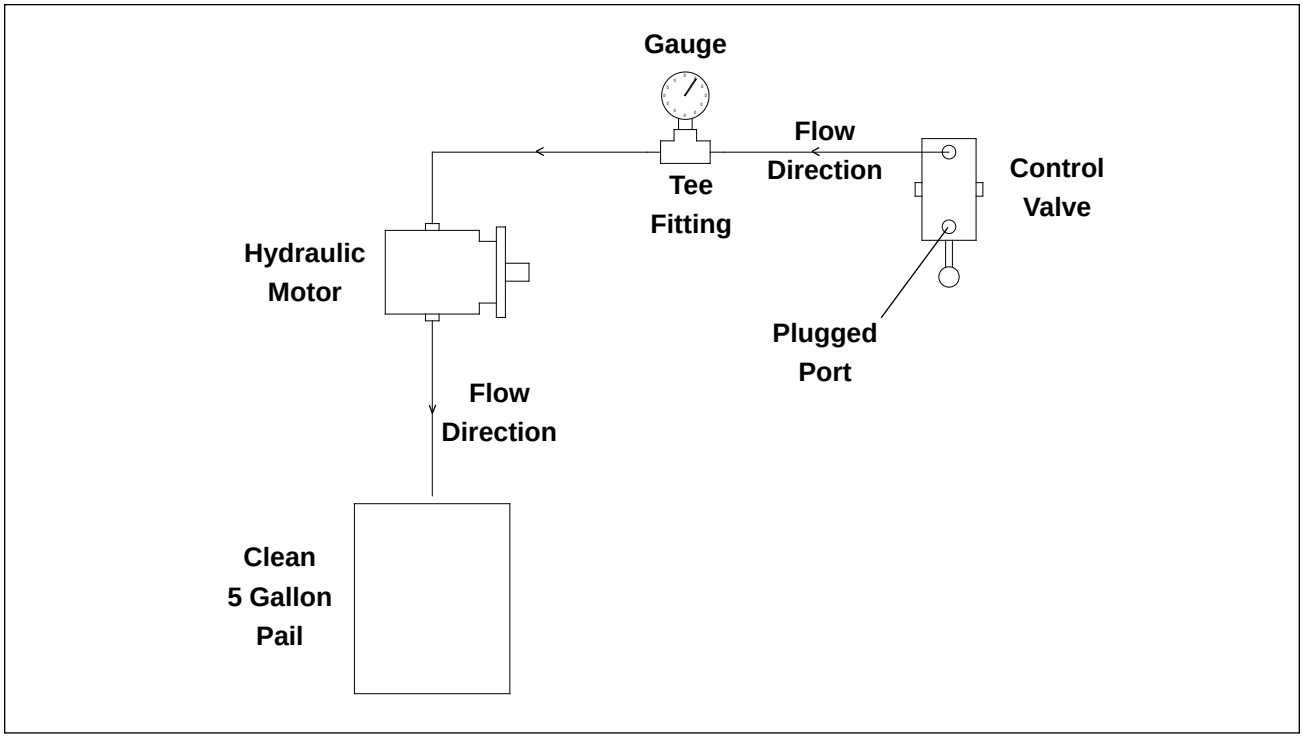
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HYDRAULIC MOTOR CHECK OUT

HYDRAULIC MOTOR CHECK OUT FOR MACHINES WITH LIVE HYDRAULICS

To check out a hydraulic motor the mechanic will need a pressure gauge capable of reading 3000 p.s.i. (207 bar), a Tee fitting to install in the control valve, a plug fitting to install in the control or relief valve and a clean 5 gallon (19L) pail.

1) The following instructions are for machines with Live Hydraulics, for machines without Live Hydraulics contact your local dealer or Bandit Industries.
2) In order to check out a hydraulic motor, it is necessary to mechanically stop the motor from turning while under load. The hydraulic pump needs to be driven without turning the chipper disc/drum (Live Hydraulics). Feed a reasonably large size log into the machine until it contacts the stationary disc/drum. This should stall the hydraulic motor(s). It may also be necessary to apply down pressure by operating the yoke control valve (if equipped).
3) With the feedwheel(s) mechanically locked as described, turn the engine off and keep the key in your possession. If the hydraulic motor does not have a case drain, unhook the hose going from the hydraulic motor back to the control valve at the valve, some machines will be equipped with a flow divider between the hydraulic motor and the control valve. If the hydraulic motor has a case drain, unhook the case drain hose that goes to the relief valve at the valve.
4) Place the end of the hose in a clean 5 gallon (19L) pail.
5) Plug the open port of the control valve or main relief valve.
6) Unhook the other hose in the control valve and install a Tee fitting into the control valve and attach the hose to the Tee fitting.
7) Install a pressure gauge in the other port in the Tee fitting to monitor hydraulic pressure.
8) Put the infeed control valve in the center position and start the engine.
9) Increase the engine speed slowly to full rpm.
10) Operate the infeed control valve to feed the log into the stationary disc/drum. If the feedwheel(s) try to turn, apply down pressure by using the yoke control valve (if equipped).
11) Providing the pump and the relief are functioning properly, the pressure gauge should read the specified main relief setting.
12) Observe the amount of hydraulic fluid coming from the hose into the pail. The amount of leakage should not be more than about 1 g.p.m. (3.8 L.p.m.) into the pail.



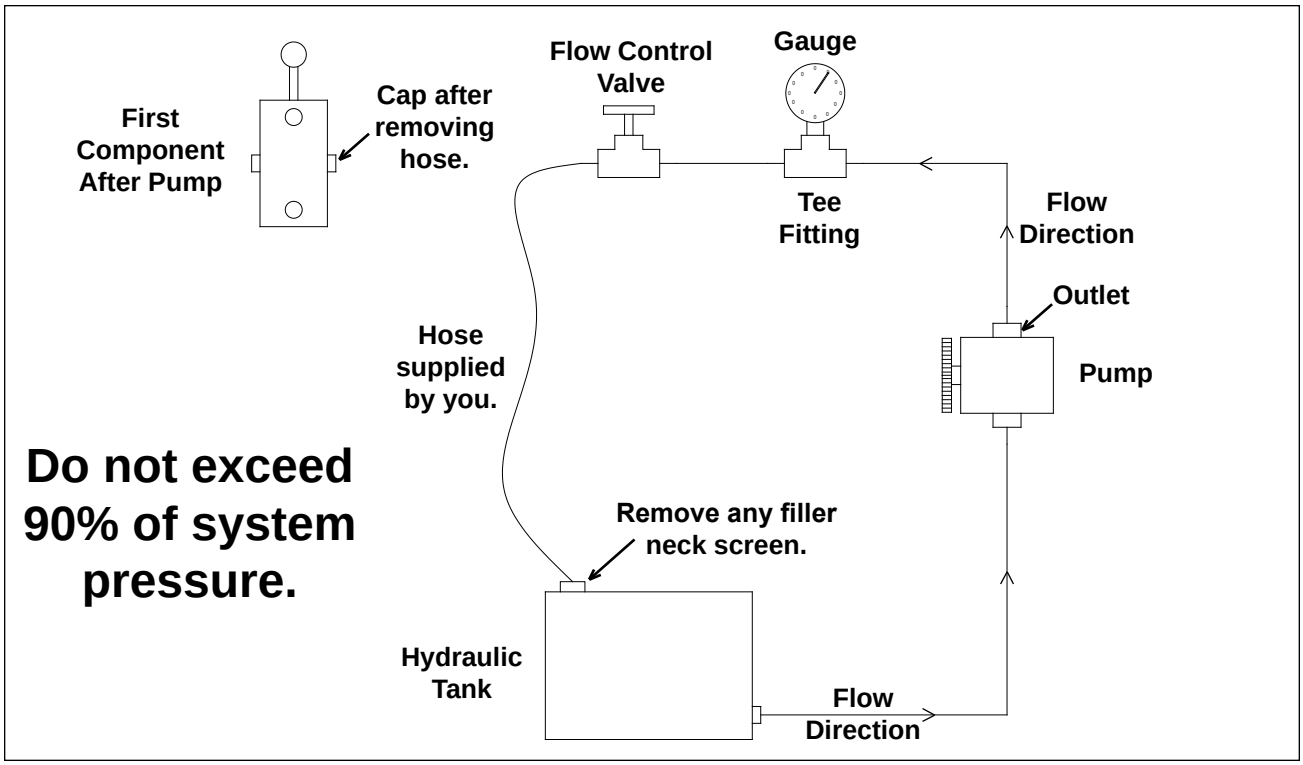
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HYDRAULIC PUMP CHECK OUT

HYDRAULIC PUMP CHECK OUT WITHOUT USING A FLOW METER

To check out the hydraulic pump the mechanic will need a needle type flow control valve, a pressure gauge capable of reading 3000 psi (207 bar) and a long enough hose that will span between the pump and the hydraulic tank.

1) Disconnect the pressure line going from the pump at the first component and cap the fitting at the component.
2) Attach a Tee fitting to the end of the pressure hose (which was removed from the component) and install the Tee fitting and gauge.
3) Attach the hydraulic flow control valve to the Tee fitting and the hose (you supply) to the outlet port of the flow control valve.
4) **Make sure the pressure gauge is installed up stream from the flow control valve. Failure to do this will cause serious damage to the hydraulic pump when testing.**
5) If the hydraulic oil tank is equipped with a mesh strainer in the fill neck, remove it and place the open end of the hose (you supply) into the tank fill neck.
6) **MAKE SURE THAT THE FLOW CONTROL VALVE IS FULLY OPEN SO AS TO ALLOW UNRESTRICTED FLOW TO PASS THROUGH IT.**
7) Start the engine to engage the pump, the clutch may have to be engaged if the pump is belt driven.
8) Have a second person lift the hydraulic hose far enough out of the tank inlet to observe the flow of oil going into the tank. Observe the pressure gauge reading to make sure a high pressure does not exist.
9) Increase the engine speed slowly to full rpm and at the same time observe the pressure. This should still remain low.
10) **SLOWLY** turn the needle valve on the flow control in and observe the pressure increase on the pressure gauge.
11) Continue closing the flow control valve until the pressure gauge reading reaches 90% of the normal relief valve setting (example: if system operates at 2500 psi (172 bar), do not exceed 2250 psi (155 bar). **Never allow the pressure to go more than 90% of the main relief pressure.**
12) If the pump is good there should be no noticeable decrease in the flow rate coming out of the hose and into the hydraulic tank.
13) If 90% of the main relief pressure can not be obtained and/or the flow rate of the hose is considerably less, then the pump is worn or damaged.

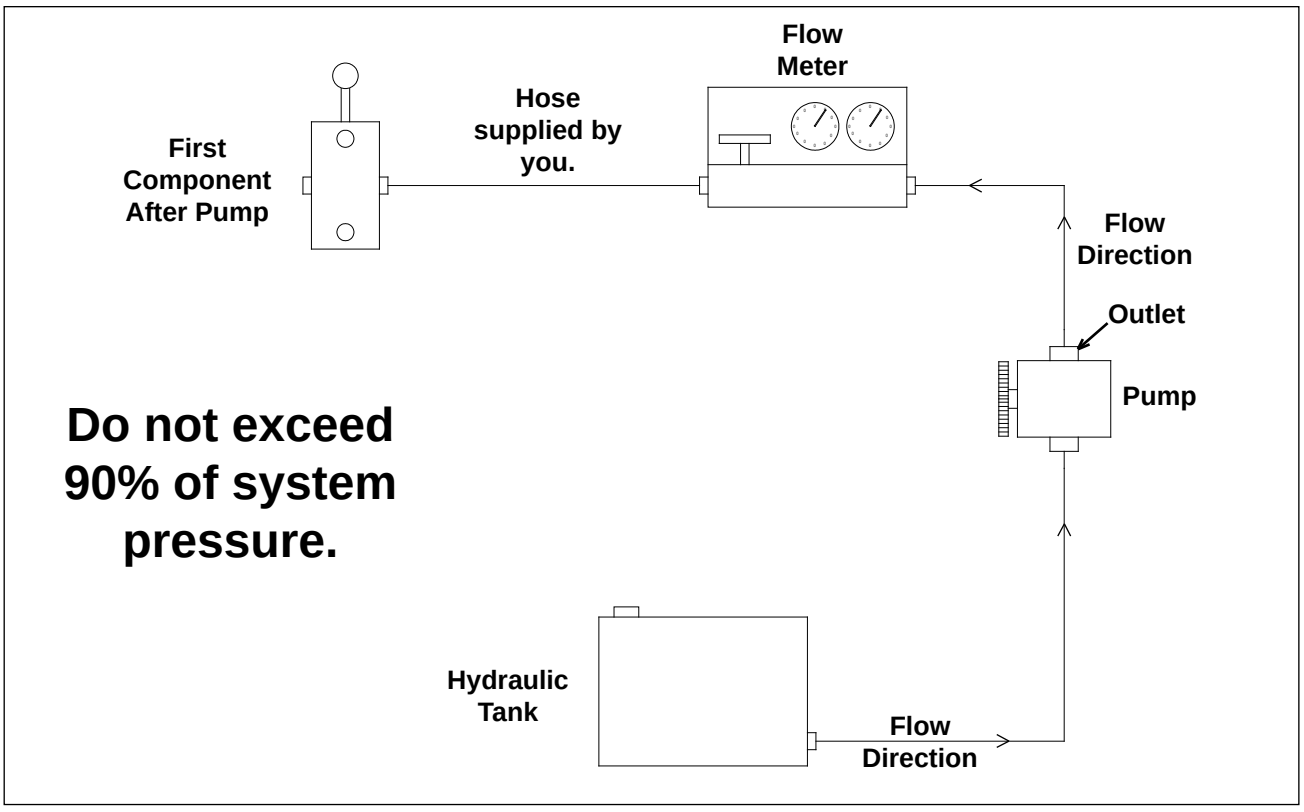


HYDRAULIC PUMP CHECK OUT

HYDRAULIC PUMP CHECK OUT USING A FLOW METER

To check out the hydraulic pump the mechanic will need a needle type flow meter capable of reading 3000 psi (207 bar) and a long enough hose that will go from the flow meter back to the first component.

1) Disconnect the pressure line going from the pump at the first component.
2) Attach the flow meter to the end of the pressure hose (which was removed from the component).
3) Attach the hose you supplied to the outlet of the flow meter and run the hose back to the first component. **MAKE SURE THE HOSES ARE ON THE CORRECT SIDES OF THE FLOW METER.**
4) **Make sure the pressure gauge is installed up stream from the flow control valve. Failure to do this will cause serious damage to the hydraulic pump when testing.**
5) **MAKE SURE THAT THE FLOW CONTROL VALVE IS FULLY OPEN SO AS TO ALLOW UNRESTRICTED FLOW TO PASS THROUGH IT.**
6) Start the engine to engage the pump, the clutch may have to be engaged if the pump is belt driven.
7) Observe the flow rate through the meter and pressure gauge reading to make sure a high pressure does not exist.
8) Increase the engine speed slowly to full rpm and at the same time observe the pressure and flow rate. The pressure should still remain low. Make a note of the flow rate (gpm or Lpm) at full engine rpm.
9) **SLOWLY** turn the needle valve on the flow control in and observe the pressure increase on the pressure gauge.
10) Continue closing the flow control valve until the pressure gauge reading reaches 90% of the normal relief valve setting (example: if system runs at 2500 psi (172 bar), do not exceed 2250 psi (155 bar). **Never allow the pressure to go more than 90% of the main relief pressure.**
11) If the pump is good, you should have at least 80% of the flow rate (gpm or Lpm) passing through the flow meter as noted at low pressure and full rpm (example: 10 gpm (38 Lpm) and low pressure = 8 gpm (30 Lpm) at 90% pressure).
12) If 90% of the main relief pressure can not be obtained and/or the flow rate passing through the meter is considerably less, then the pump is worn or damaged.



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CONTROL VALVE DETENT ASSEMBLY AND O-RING REPLACEMENT

Tools Required:

- Small amount of clean hydraulic oil
- Clean working area, free of debris and shop rags
- 3/16” Tee handle hex driver
- 1/2” drag link drive socket
- Jawed vice

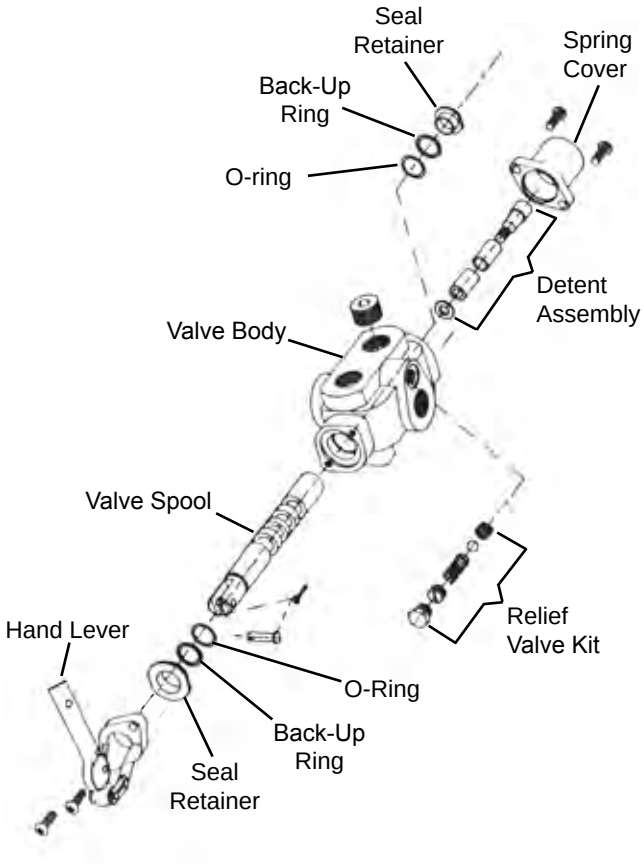


1/2” Drag Link Drive Socket

General Procedure:

<u>Disassembly:</u>

1) Secure valve in vice or suitable method to firmly hold valve.
2) Note the orientation and placement of all components during disassembly.
3) Using the 3/16” Tee handle hex driver, remove (2) two socket head cap screws which hold the spring cover to the valve body. Set aside for re-use.
4) The detent assembly is now visible. Insert the 1/2” drag link drive socket blade into slot of retaining screw. Loosen and remove the retaining screw along with the entire detent assembly.
5) With the 3/16” Tee handle hex driver, remove (2) two socket head cap screws that hold the control lever assembly to the valve body.
6) Detach hand lever from spool. Carefully remove valve spool from valve body. Take care not to scratch, dent, or nick the spool. Note the orientation of handle attachment point on spool. Set aside for re-use.
7) Remove (2) seal retainers, o-rings, and back-up rings from both ends of the valve.
8) Inspect and replace o-ring and back-up ring if cut, or if leak is suspected.



<u>Assembly:</u>

1) Lubricate spool, o-rings, and back-up rings with clean oil. Insert spool and center it in the valve body.
2) Place the new o-rings and back-up rings over spool ends and seat them into the valve body. Seat the seal retainer onto back-up ring making sure not to pinch the o-ring or back-up ring against the valve body.
3) Re-attach the hand lever to the spool. Mount control lever assembly onto the valve body using the (2) two socket head cap screws.
4) Thread a new detent assembly onto the spool end and hand tighten with the 1/2” drag link drive socket blade. No additional lubricant is required.
5) Mount the spring cover and the (2) socket head cap screws.
6) Hand tighten all (4) four socket head cap screws with the 3/16” Tee handle hex driver.
7) Shift valve with hand lever to assure operation. With some effort, the hand lever should move between three positions. The detent will hold the hand lever in the three positions.

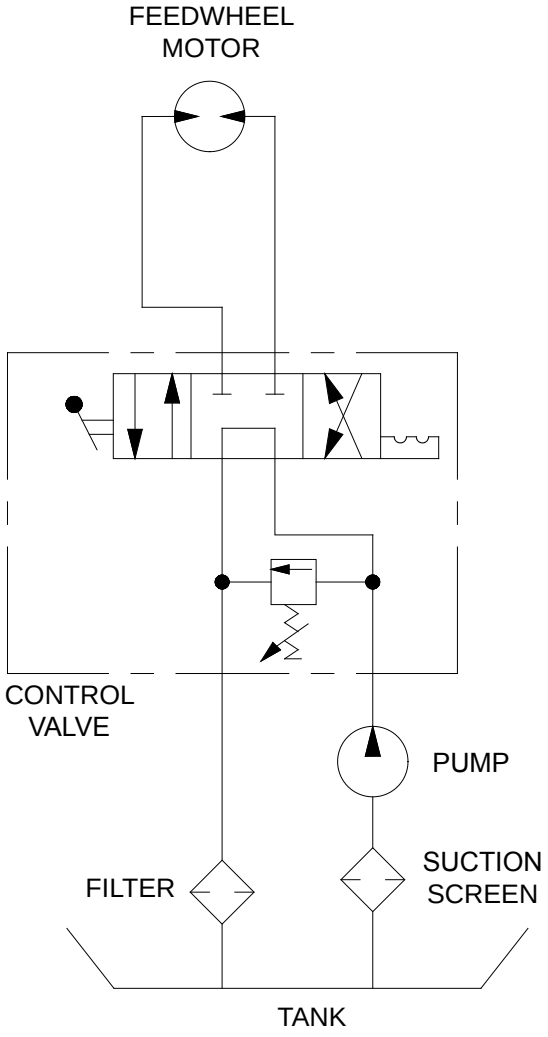
Instructions and illustrations provided by component manufacturer.

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MODELS 65/95

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.

WITH NO OPTIONS

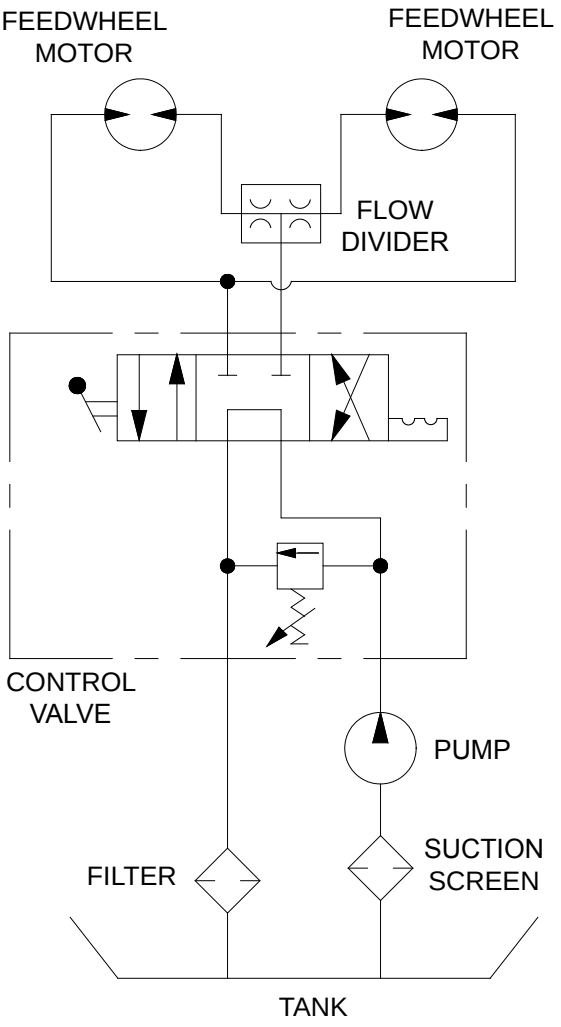


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MODEL 65 WITH DUAL FEEDWHEELS

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.

WITH NO OPTIONS

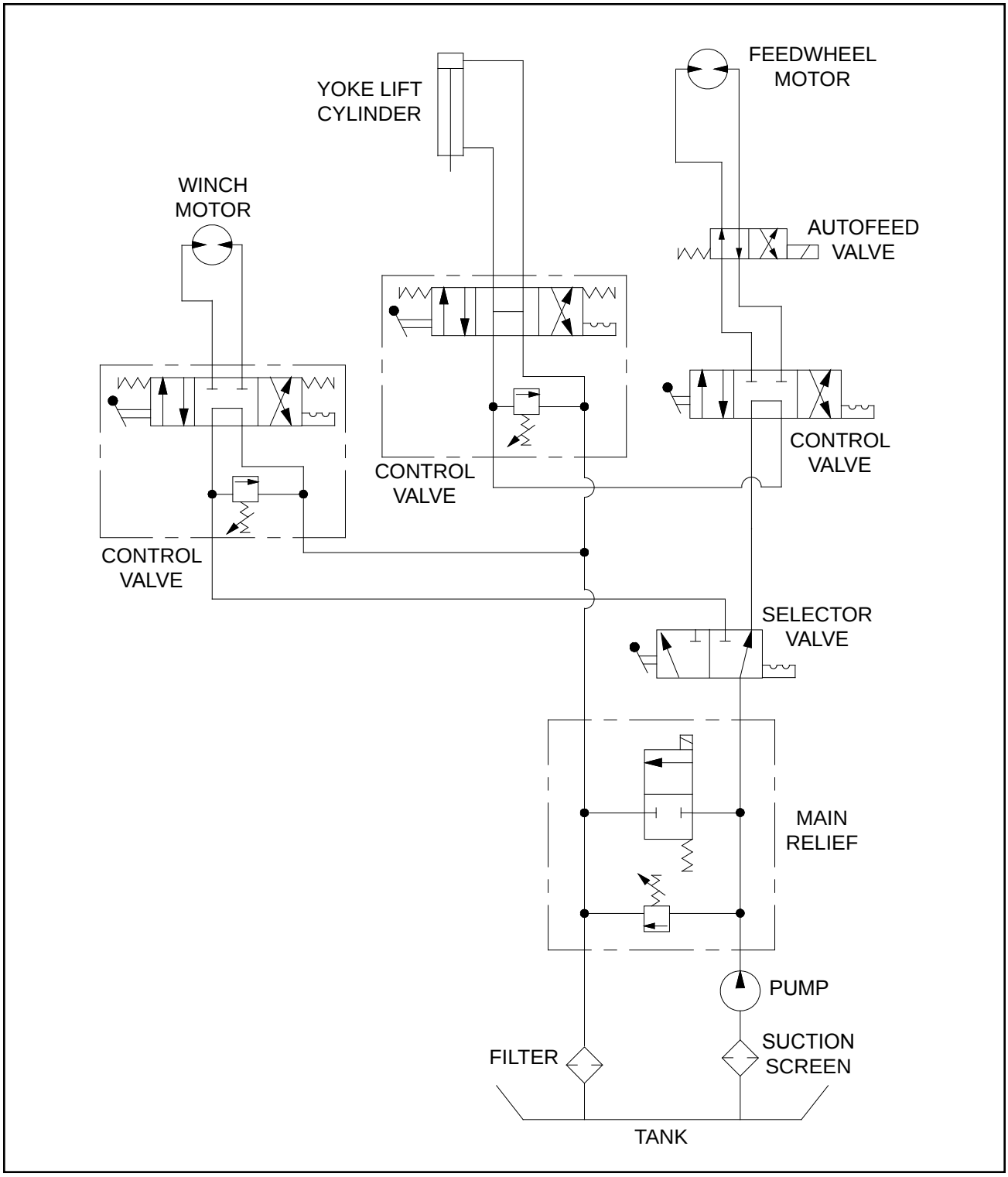


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MODEL 95

SPECIFIC SCHEMATIC FUNCTION MAY VARY DEPENDING
ON OPTIONS OR COMPONENT MANUFACTURE.

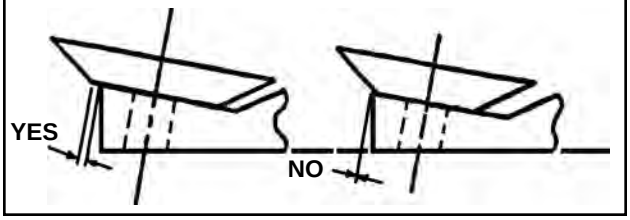
WITH AUTOFEED PLUS, YOKE LIFT CYLINDER, WINCH



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CHIPPER SECTION

UNDER **NO** SITUATION IS HEAL OF KNIFE TO BE **INSIDE** EDGE OF MILLED POCKET!



Knives should be replaced in sets. These sets are determined by the amount of resharpening done to the knives. It should be reinstalled with another knife of comparable usage. It helps to keep the disc/drum balanced, and it helps maintain chip quality.

NEVER allow these knives to wear beyond absolute specified minimum distance from the center line of bolt (see below).

TROUBLE SHOOTING CHIPPER PROBLEMS

1) Chipper Makes Poor Quality Chips or Does Not Feed Properly.

A. Knives have lost their edge. File, grind or replace knives. **DO NOT** operate the Bandit with dull knives.
B. Knife anvil worn or needs adjustment. Rotate, repair or replace (see Figure 1).
C. Feedwheel(s) are not operating correctly. (SEE HYDRAULIC TROUBLE SHOOTING).
D. The throat/base opening is a high-wear area. The feed plate anvil takes much of this wear but other areas wear as well. Attention must be paid to any areas where outer, noncutting edges of chipper knife are exposed. These areas must be built up with weld to maintain the original integrity.
E. Knives are at the wrong angle. Model 65 knives must be ground at a 30° to 31° angle. Model 95 (starting 2/96) knives must be ground at a 35° angle.
F. Feedwheel teeth worn (REPLACE).
G. Material being chipped is very small, dry or rotting. This type of material does not produce good chip quality.

2) Chipper Knife Hits Anvil.

A. Check the anvil clearance at both sides of the knife by using a feeler gauge, the clearance should be the specified distance from the highest knife (SEE ANVIL ADJUSTMENT).
B. Check the chipper front bearing retainer cap for tightness (SEE TORQUE CHART).

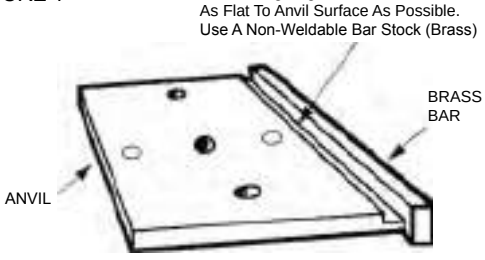
3) Discharge Plugs or Does Not Throw Chips Properly.

A. Lugging engine on large material - keep engine RPM up.
B. Knives are dull or worn to minimum size.
C. Obstruction in discharge chute. Patches welded into the chute can cause obstruction of chip flow. Anything causing an obstruction will cause the chute to plug.
D. Chipping rotting material that has little substance can also plug the discharge chute.
E. Worn fan blades.

4) Chipper Bearings Running Too Hot.

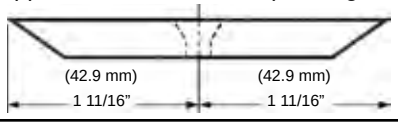
A. Improper lubrication - purge bearings once a day with EP-2 Lithium type grease.
B. Chipper disc operating at too high RPM's. DO NOT exceed recommended RPM's.
C. Front bearing retainer cap loose (SEE TORQUE CHART).
D. Bearings worn out (REPLACE).
E. Set screws on sheave side bearing not tight.

FIGURE 1

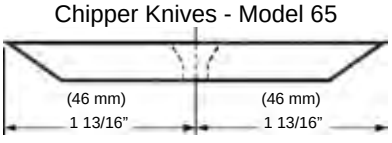


REMOVE BRASS BAR AFTER BUILDING UP AREA WITH HARD SURFACE WELD AND SQUARE WORKING CORNER WITH GRINDER

9/16" x 3 5/8" x 10 1/8" (14.3 mm x 92.1 mm x 257.2 mm)
Chipper Knives - Model 95 (Starting 2/96)



1/2" x 4" x 7 1/4" (12.7 mm x 101.6 mm x 184.2 mm)
Chipper Knives - Model 65



KNIFE GRINDING AND FILING

Only Bandit knives and hardware are recommended for use in your Bandit chippers. Only then can you be assured of a quality product that fits and performs the best to the standards of excellence that is expected from the Bandit chipper.

Chipper knives MUST be kept sharp at all times for the ultimate chipper and knife performance. The main cause of poor cutting performance is dull knives.

Dull Knives Cause:

- Excessive waste of engine horsepower
- Bad quality chips; chunks, slivers, etc.
- Excessive strain on knives and mounting hardware
- Excessive strain on chipper disc/drum bearings and total machine
- Excessive chipping vibration damaging the machine
- Excessive strain on drives, PTO's, engines, etc.
- Increase the probability of the discharge plugging and decreases the throwing distance
- Loss of time and money

The Dulling Of Chipper Knives Is Caused By:

- Poor quality knives
- Improper anvil to knife clearance
- Force feeding wood faster than chipper will accept
- Dirt, grit, or foreign material on the wood
- Chipper knives ground at wrong angle
- Improper care of knives and knife hardware

These are just a few factors, there are other situations that can lead to the dulling of chipper knives.

NOTICE

Many times a chipper knives cutting edge/point can be brought back to a good edge with a #10 Flat Bastard Mill File. This can reduce the amount of regrinding.

Typical Knife Grinding Angles:
Model 65 "Bolt-In" Knives = 30° to 31° Angle
Model 95 "Bolt-In" Knives (Starting 2/96) = 35° Angle

Knives should be replaced in sets. These sets are determined by the amount of resharpening done to the knives (knife width). Regrinding knives reduces the width of the knife. Knife replacement should be done in sets of the same width knives. That will reduce chipping vibration and increase chipping performance.

NOTICE

- Keep knives sharp.
- Keep knife angle correct when grinding.
- Do not over grind so knife is narrower than allowed width, or you will pack wood and break knives.
- Use correct knife size, knife quality, knife mounting hardware, and torque knife mounting hardware to the specified torque.
- Replace knife mounting hardware after (5) times of tightening.

⚠ CAUTION

Do not grind the knives in a direction which produces a radius, or hollow grind, on the surface of the knife. Strength and life of the cutting edge is reduced.

- For maximum chipper efficiency, the original cutting angle must be maintained when the knives are sharpened. The knives should be machine ground to produce a flat, straight edge.
- Do not sharpen the knives with a hand held power grinder. The knife angle can't be held and heat will distort the metal.
- Sharpening techniques should be the same as those employed for any high carbon steel cutting edge. Use a coolant and exercise care not to draw temper or crack the cutting edges by excessive heating.
- Knives may be sharpened repeatedly as long as their original width is not reduced to less than the specified minimum width. If a knife measures less than the specified minimum width after sharpening, it must be discarded.
- Inspect the knives after grinding to ensure the knives are free of cracks.
- Maintain spare sharpened knives to avoid downtime for knife sharpening.

NOTICE

USE CORRECT KNIFE AND HARDWARE

DO NOT use a size or style chipper knife, bolt or nut other than factory approved for this chipper - see manual.

DO NOT over torque or under torque knife bolts and nuts - see manual.

DO NOT resharpen knife more than minimum width - see manual.

DO NOT use a knife bolt or nut which has been tightened over (5) times - replace.



DO NOT improperly install the knife nuts. Flat surface of nut goes toward the chipper disc.

KNIFE CHANGING PROCEDURE

Only Bandit knives and hardware are recommended for use in your Bandit chippers. Only then can you be assured of a quality product that fits and performs the best to the standards of excellence that is expected from the Bandit chipper.

⚠ DANGER

Chipper knives are sharp and can be dangerous. It is always necessary for your protection to be extra careful and wear proper hand protection when handling knives. Before changing knives make sure all shut down procedures are followed.

1. Before attempting any type of maintenance disengage clutch, install clutch lock if equipped, turn off engine, wait for the disc/drum to come to a complete stop, install the disc/drum lock pin, disconnect battery, and make sure the ignition key is in your possession.
2. Disconnect the chipper hood engine disable plug.
3. Remove the padlock from the hood pin.
4. On disc chippers, recess the spring lock for the hood pin and retract the hood pin. On drum chippers, retract the hood pin.
5. Carefully open the hinged part of the chipper hood. Do not slam the chipper hood to the open position. This will cause damage to the hinge. If the hinge becomes damaged by slamming the hood open, replace the hinge immediately! If the hinge has become damaged, it will cause misalignment of the hood, the chipper disc/drum may hit the hood and cause a serious accident!
6. Changing the chipper knives is a two person job. One person, using a wooden block, holds the chipper knife in place while the other person removes the chipper knife hardware. Remove all of the knives in each pocket. If the machine is a disc chipper with 5/8” knife bolts, typically a 3/8” allen key and a 1 1/16” socket is required to change or torque the knife hardware. If the machine is a disc chipper with 1/2” knife bolts, typically a 5/16” allen key and a 7/8” socket is required to change or torque the knife hardware. If the machine is a drum chipper, typically a 15/16” socket is required to change or torque the knife hardware.
7. Once the knives have been removed, inspect the knife pocket. Check for secure welds, excessive wear, impact cracks, and elongated bolt holes on disc chippers or the condition of the knife bolt threads on drum chippers. If a problem is found, contact your local dealer or Bandit Industries.
8. Clean out the knife pocket at this time. Remove all debris from the pocket and knife bolt holes.
9. Sharpen, rotate, or replace the chipper knife. Knives should be professionally ground, maintaining angle and dimensional specifications. Knives should be replaced in sets. These sets are determined by the amount of resharpening done to the knives. It should be reinstalled with another knife of comparable usage. It helps to keep the disc/drum balanced, and it helps maintain chip quality. Do not allow the knives to wear beyond the absolute minimum specified distance from the center line of the bolt hole. Reinstall the chipper knives. Make sure to properly torque the knife hardware, see Bolt Torque Chart. Knife mounting hardware must be replaced after maximum of 4 - 5 knife rotations/changes to in sure safe clamping ability. All knives and knife mounting hardware must be factory approved.
10. Remove the disc/drum lock pin. Very carefully, manually with a bar, turn the chipper disc/drum to the next knife pocket. Reinstall the disc/drum lock pin.
11. Repeat steps 6 though 10, for each knife pocket.
12. Once the knives have been changed or rotated, check the anvil clearance. Make sure the clearance is maintained to the specified distance from the highest knife. Do Not under any circumstance attempt to rotate the chipper disc/drum while someone is inside the infeed hopper. They may become seriously injured, Do Not Do This!
13. Close the hinged part of the chipper hood and reinstall the hood pin, hood pin padlock, chipper hood disable plug, and on disc chippers make sure the spring lock for the hood pin springs back into position.

LUBRICATION & COOLANT

1) Engine: Follow original equipment manufacturer's requirements for both changing oils and filters, refer to engine manual specifications.

2) Engine Coolant: Refer to engine manufacturer's manual specifications.

3) Clutch: Follow original equipment manufacturer's requirements for both greasing and adjusting. Frequently, adjust and lubricate per PTO manufacturer's manual.

4) Wheel Bearings: Follow axle manufacturer's instructions for greasing or oiling wheel bearings.

5) Tracks (if equipped): Follow track manufacturer's instructions for specific track lubricating procedures.

6) Hydraulic Reservoir Tank: Completely change hydraulic oil, suction screen(s), and flush the tank annually. Change hydraulic oil filter(s) AFTER FIRST 10 HOURS OF OPERATION. Then change hydraulic oil filter(s) every 3 months or 400 hours thereafter. Maintain hydraulic oil level 7/8 full. See hydraulic oil requirements below. Check hydraulic oil level in tank daily.

7) High Pressure Filter(s) (if equipped): If machine is equipped, change high pressure oil filter(s) AFTER FIRST 10 HOURS OF OPERATION. Then change high pressure oil filter(s) every 3 months or 400 hours thereafter.

8) Hydraulic Fluid Requirements: See pages 62 - 63 for hydraulic fluid requirements.

9) Discharge Swivel: Grease swivel plates for discharge every 3 months or as needed.

10) Hood Hinge: Make sure the hood hinge operates correctly, and is lubricated daily. Must replace hinge if damaged.

11) Steel Friction Areas: Lubricate all steel friction areas including, but not limited to pivoting, hinged, sliding, and rotating areas weekly. (i.e. control handle, folding pan, discharge flipper, winch rollers, height adjustable discharge, discharge T-handle, etc.)

12) Pintle Eye Ring: Keep greased monthly to reduce wear and extend the normal life of your pintle eye ring.

13) Chain Operated Components: Use a dry lubricant on any chain driven components weekly. (i.e. hydraulic swivel discharge, or chain driven feedwheels)

14) Chipper & Feedwheel Bearings: Use an EP-2 Lithium type grease only for all bearings. Purge chipper bearings daily with grease you can not over grease these bearings. Grease feedwheel bearings daily with one shot of grease. Both types of bearings are designed with a relief system that will not allow over greasing. In other words, you can not hurt the bearing seals by pumping in too much grease. Wipe off excess grease. **Excessive grease will attract dirt.**

Most of the failures related to bearings are diagnosed as "Contamination". Contamination is caused by improper lubrication.

Especially important is proper lubrication when the chipper is setting idle. The bearings must be fully purged when shut down. Then the bearings must be again fully purged each thirty (30) days and the machine allowed to run for approximately 10 minutes. Then fully purged again before the machine is put back into operation. Failure to do this will ruin the bearings. Bearings corrode when the machine is setting idle.

The second largest cause of bearing failure is operating them at high speeds when the grease is cold. This causes the bearing race to turn on the shaft. Naturally this ruins the bearing as well as the shaft. Allow the bearings to turn at slower speeds for at least five minutes. Also check the bearing lock collar set screws or bearing locknut for tightness each 30 days. Loose set screws or locknut allows the race to turn on the shaft. Failed bearings diagnosed as contamination or cold starts at high speed are not covered by warranty of the bearing manufacturer.

15) Yoke Pivot Bearings: Use an EP-2 Lithium type grease only for all bearings. Grease yoke pivot bearings daily with one shot of grease. These bearings are designed with a relief system that will not allow over greasing. In other words, you can not hurt the bearing seals by pumping in too much grease. If the machine is setting idle, the bearings must be fully purged when shut down, every 30 days after, and again before the machine is put back into operation just like the chipper and feedwheel bearings. Wipe off excess grease. **Excessive grease will attract dirt.**

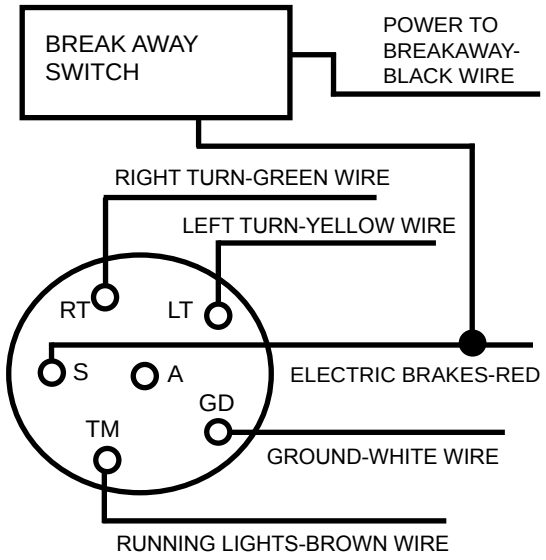
16) Chip Box Turntable Bearing (if equipped): Use an EP-2 Lithium type grease only for all bearings. If the machine is equipped chip box, grease turntable bearing zerks with 1 to 2 shots of grease weekly. Wipe off excess grease. **Excessive grease will attract dirt.**

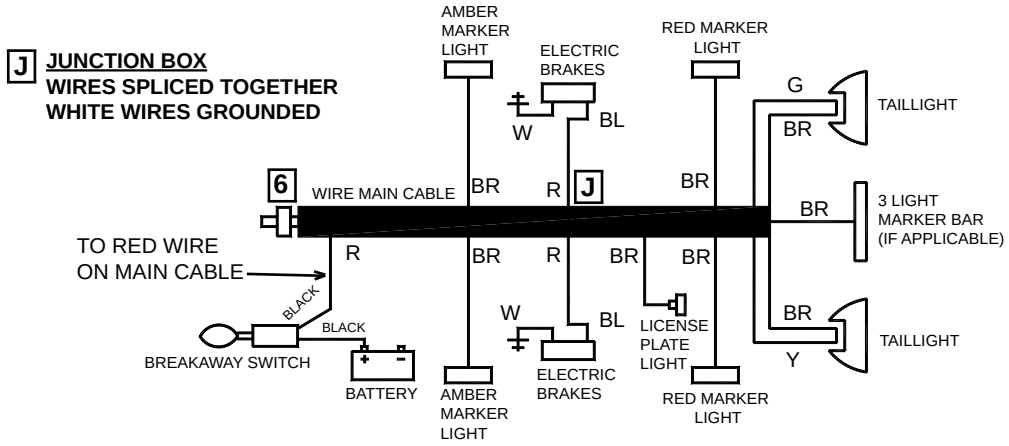
17) "Bandit Lever Throttle Cable (if equipped): If the machine is equipped with a "Bandit" lever throttle system, lubricate inner throttle cable and cable ends with a cable lube or SAE 10W/30 oil every month. Replace throttle cable if it doesn't operate smoothly.

TYPICAL ELECTRICAL WIRING DIAGRAMS

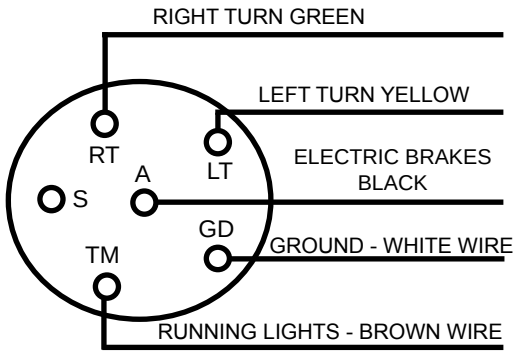
WIRING FOR STANDARD 6 PRONG PLUG AND 6 WIRE MAIN CABLE EFFECTIVE ON MACHINES BUILT AFTER 11/01/04

6 Wire Main Cable Color Code
Red R (Brakes & Breakaway Switch)
White W (Ground)
Green G (Right Turn)
Yellow Y (Left Turn)
Brown BR (Running Lights)
Black BL (Power to Breakaway Switch)





6 WIRE MAIN CABLE COLOR CODE (OLD STYLE)



OLD STYLE

6 Wire Main Cable Color Code
Black BL (Brakes)
White W (Ground)
Green G (Right Turn)
Yellow Y (Left Turn)
Brown BR (Running Lights)
Red R (Breakaway Switch)

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REPLACEMENT PARTS SECTION

Depending on what replacement parts you are ordering
the following information will be needed:

CHIPPER COMPONENTS	ENGINE COMPONENTS	CLUTCH COMPONENTS
Serial Number	Brand	Brand
Model Number of Chipper	Engine Serial Number	Serial Number
	Engine Spec. Number	Assembly Number of Clutch

NOTICE

When ordering any replacement parts you should have the serial number (S/N) and model of the machine to ensure that you receive the correct replacement part. See page 6 for typical serial number & work order number locations.

NOTICE

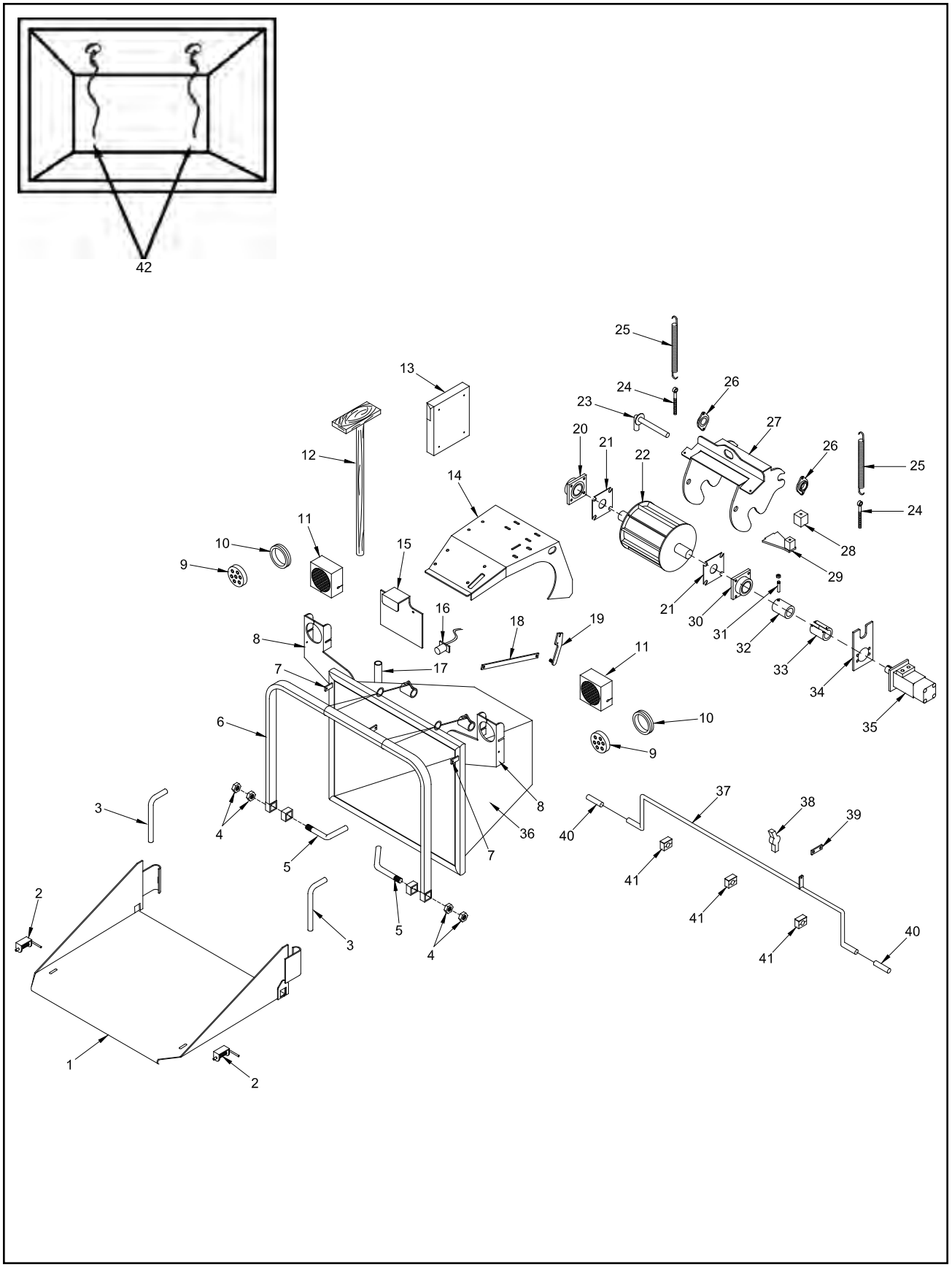
All nuts, bolts, washers, and many other components can be ordered by physical description.

NOTICE

Some of the components shown in this section are for optional equipment and may not apply to every machine.

NOTICE

Bandit Industries Inc. reserves the right to make changes in models, size, design, installations and applications on any part without notification.

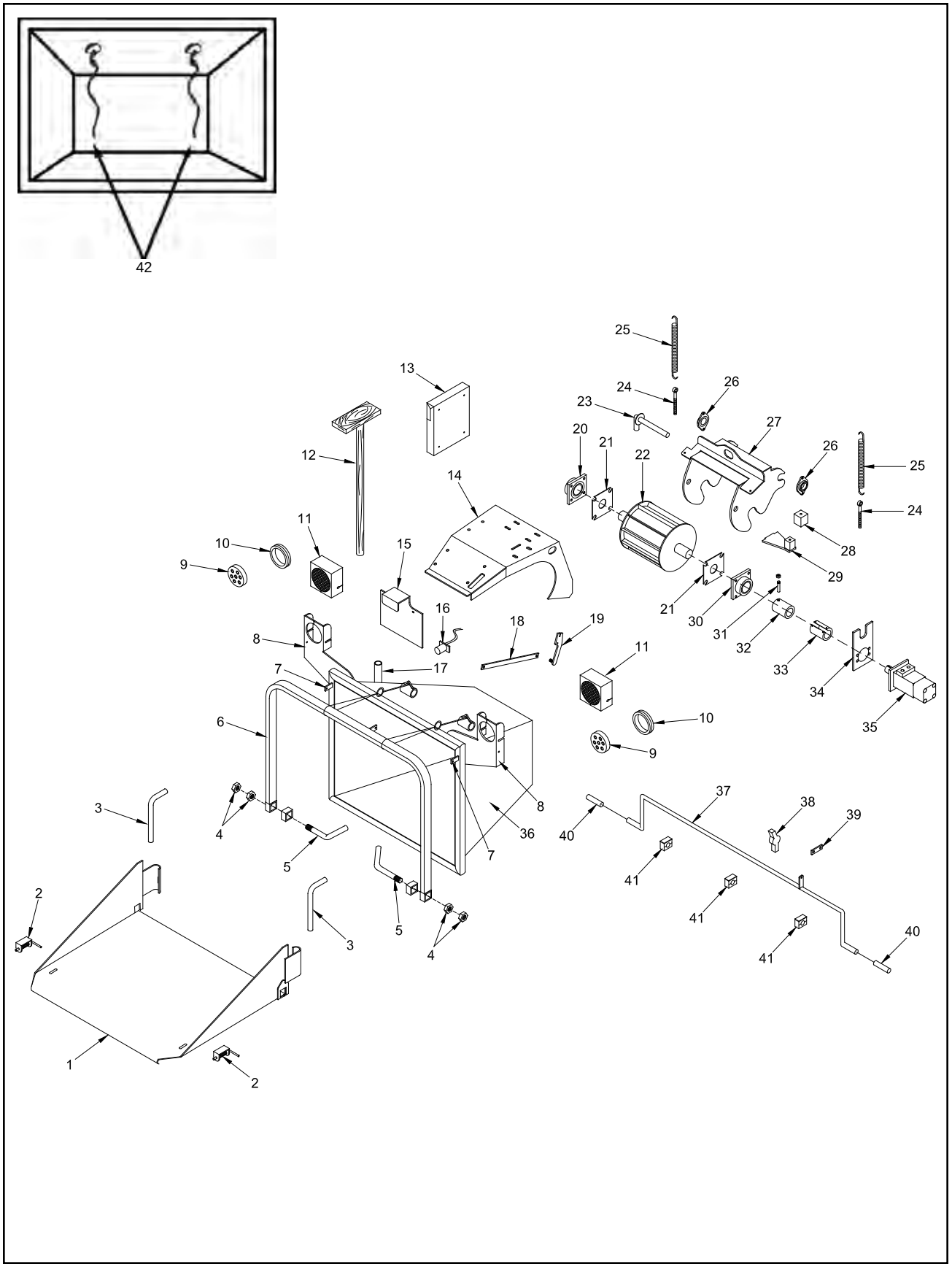


NOTICE Parts may not be exactly as shown.

Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-200019	995-100000	Folding Pan for Infeed Hopper
2 a.	900-4901-83	900-4901-83	Folding Pan Spring Lock & Trap Door Lock
b.	900-7900-93	900-7900-93	Rubber Cap (Not Shown)
3 a.	955-1003-94	955-1003-94	Folding Pan Lock Pin
b.	900-7900-96	900-7900-96	Rubber Cap (Not Shown)
4.	900-4900-44	900-4900-44	Pivot Pin Jam Nuts
5.	626-300001	980-300576	Pivot Pin
6.	626-200020	980-100019	Control Handle
7.	980-0137-06	980-0137-06	Lock Tab for Folding Pan
8 a.	See Pages 122-123	980-200176	Tail Light Mount - Road Side
b.	See Pages 122-123	980-200177	Tail Light Mount - Curb Side
9 a.	See Pages 122-123	900-2908-76	LED Tail Light
b.	See Pages 122-123	900-2908-74	Adapter Wire for LED Tail Light (Not Shown)
10.	See Pages 122-123	900-2908-75	Rubber Grommet for LED Tail Light
11 a.	N/A	980-2002-82	Heavy Duty Tail Light Cover (Start 11/08)
b.	N/A	980-0508-72	Heavy Duty Tail Light Cover (Pre 11/08)
12.	626-0000-52	980-0507-42	Wooden Push Paddle
13.	900-9902-72	900-9902-07	Manual Holder
14.	N/A	995-200000	Winch and Valve Mount (Start 9/04 Approx.)
15.	See Pages 122-123	980-300181	License Plate and Light Mount
16.	900-2900-07	900-2900-07	License Plate Light
17 a.	980-0122-55	980-0122-55	Wooden Push Paddle Mount
b.	900-4914-18	900-4914-18	Plastic Knob (Not Shown)
18.	626-0001-80	980-300139	Hydraulic Control Arm
19.	980-100141	980-100141	Feedwheel Control Valve Linkage
20 a.	900-1909-79	900-1909-79	Feedwheel Bearing (Set Screw Style) (Start 8/04)
b.	900-1909-81	900-1909-81	Feedwheel Bearing - Debris (Set Screw) (Start 8/04)
c.	900-4912-37	900-4912-37	Feedwheel Bearing Bolt (1/2-13NC x 1” SHCS)
d.	900-1900-66	900-1900-66	Feedwheel Bearing (Pre 8/04)
e.	900-4900-13	900-4900-13	Feedwheel Bearing Bolt (3/8-16NC x 1”)(Pre 8/04)
21.	980-300083	980-300083	Feedwheel Bearing Backer Plate (Start 8/04)
22 a.	626-200014	995-0500-31	Feedwheel Assembly
b.	626-300132	980-0120-39	Feedwheel Tooth - Knife Edge
c.	626-300134	N/A	Feedwheel Tooth - Serrated
d.	626-300062	981-0501-34	Feedwheel Shaft & Coupler Assembly
23.	626-300068	955-1015-32	Yoke Lock Pin
24.	900-4905-43	900-4902-29	Yoke Spring Adjuster
25.	900-4900-04	900-4900-04	Yoke Spring
26.	900-1901-08	900-1901-08	Yoke Pivot Bearing
27.	626-200010	995-0500-29	Top Yoke Assembly
28.	937-900009	937-900009	Torque Arm Cushion
29 a.	980-300515	981-300199	Top Torque Arm Stop
b.	937-300316	937-300316	Torque Arm Cushion Mount
30 a.	900-1909-80	900-1909-80	Feedwheel Bearing (Grip-Tight Style) (Start 8/04)
b.	900-4912-37	900-4912-37	Feedwheel Bearing Bolt (1/2-13NC x 1” SHCS)
c.	900-1900-66	900-1900-66	Feedwheel Bearing (Pre 8/04)
d.	900-4900-13	900-4900-13	Feedwheel Bearing Bolt (3/8-16NC x 1”)(Pre 8/04)

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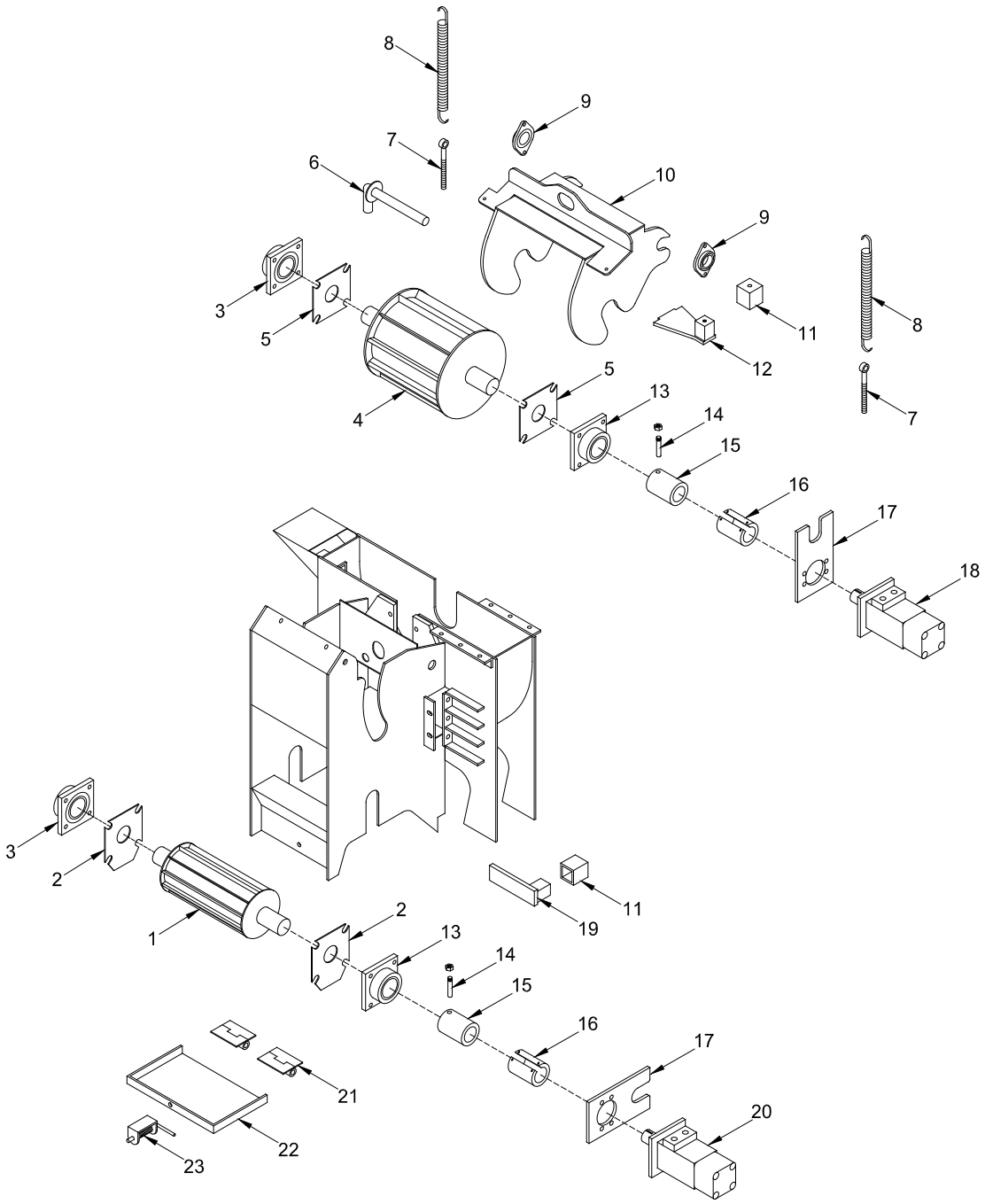
NOTICE Parts may not be exactly as shown.

Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
31 a.	900-4909-53	900-4909-54	Taper Pin With Nut (Start 6/05)
b.	900-4905-54	900-4905-55	Taper Pin Only (Pre 6/05)
32 a.	626-300268	981-300140	Coupler With Motor Nut and Taper Pin With Nut
b.	626-0001-69	981-1006-45	Coupler With Motor Nut and Taper Pin
33 a.	900-7901-23	900-7901-23	Rubber Coupler Guard - 17 3/4” (Start 6/05)
b.	900-7900-38	900-7900-38	Rubber Coupler Guard - 15 3/4” (Pre 6/05)
c.	980-0508-57	980-0508-57	Coupler Guard Mount (Not Shown)
34.	980-0124-98	981-1006-44	Feedwheel Torque Arm
35 a.	900-3927-67	900-3908-68	Feedwheel Hydraulic Motor (Tapered Shaft)
b.	N/A	900-3908-19	Feedwheel Hydraulic Motor (RE-32 Straight Shaft)
c.	N/A	900-3906-30	Feedwheel Hydraulic Motor (RE-45 Straight Shaft)
36.	626-200009	995-0500-32	Infeed Hopper Assembly
37 a.	N/A	904-0006-91	Dual Yoke Lift Control Bar Kit
b.	N/A	980-300064	Dual Yoke Lift Control Bar
38.	N/A	955-1018-52	Short Valve Handle - Lift Cylinder Control Linkage
39.	N/A	626-0001-80	Control Arm - Dual Yoke Lift - 11 1/2”
40.	N/A	900-7900-96	Rubber Cap - Dual Yoke Lift Control Bar
41.	N/A	900-3914-02	Clamp - Lift Control Bar
42 a.	980-0508-64	980-0508-64	Last Chance Cable Assembly
b.	900-4904-29	900-4904-29	Last Chance Orange Cable & Clamp

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MODEL 65 DUAL FEEDWHEEL



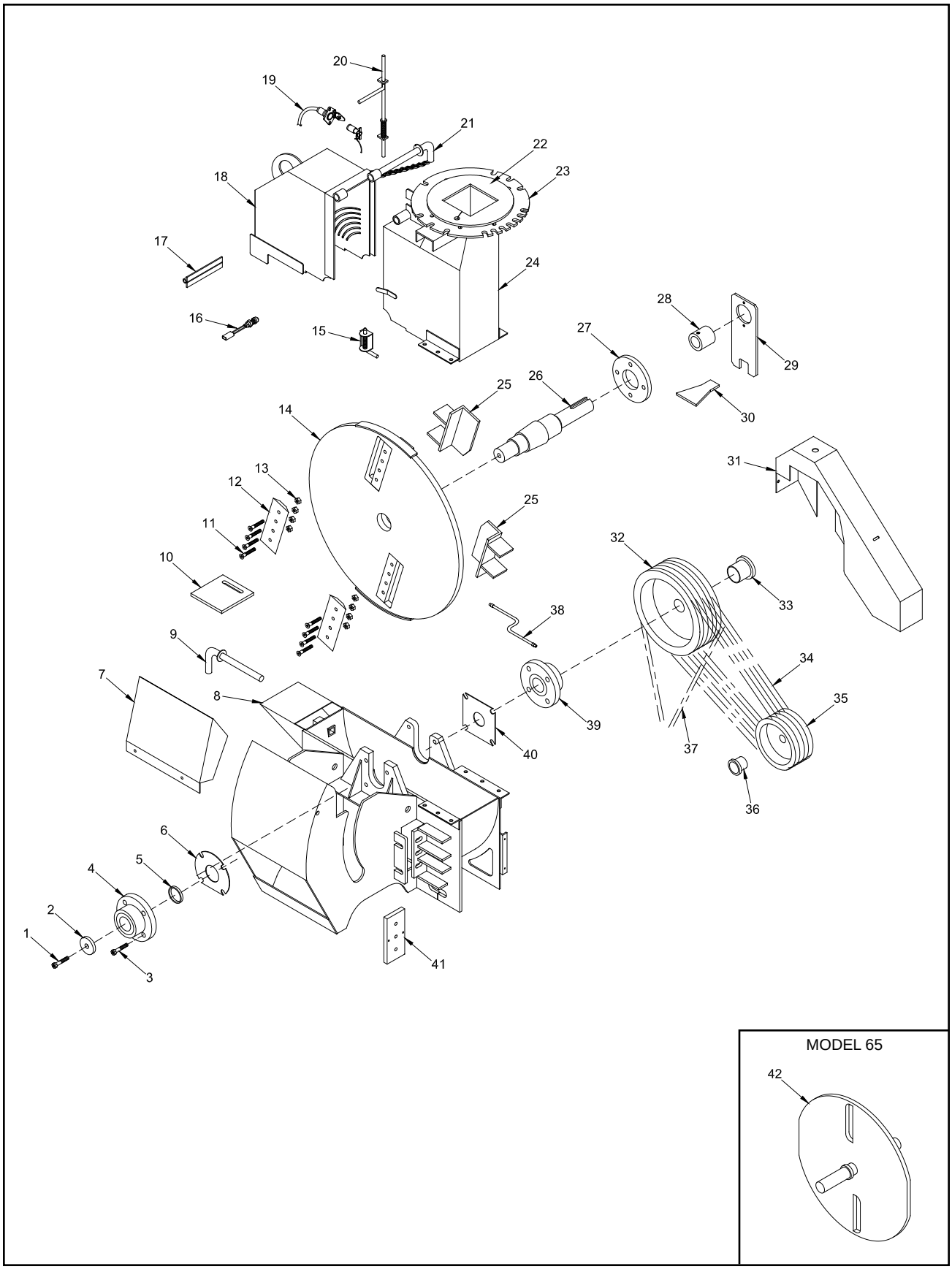
NOTICE Parts may not be exactly as shown.

Bandit

MODEL 65 DUAL FEEDWHEEL

LOCATION	MODEL 65 PART NUMBER	DESCRIPTION
1 a.	626-200036	Bottom Feedwheel Assembly
b.	626-300132	Bottom Feedwheel Tooth - Knife Edge
c.	626-300134	Bottom Feedwheel Tooth - Serrated
d.	626-300062	Bottom Feedwheel Shaft and Coupler Assembly
2.	980-300082	Bottom Feedwheel Bearing Backer Plate
3 a.	900-1909-79	Feedwheel Bearing (Set Screw Style)
b.	900-1909-81	Feedwheel Bearing - Debris (Set Screw Style)
c.	900-4909-23	Top Feedwheel Bearing Bolt (1/2”-13NC x 1 1/4” SHCS)
d.	900-4909-23	Bot. Feedwheel Bearing Bolt (1/2”-13NC x 1 1/4” SHCS)
4 a.	626-200014	Top Feedwheel Assembly
b.	626-300132	Top Feedwheel Tooth - Knife Edge
c.	626-300134	Top Feedwheel Tooth - Serrated
d.	626-300062	Top Feedwheel Shaft and Coupler Assembly
5.	980-300083	Top Feedwheel Bearing Backer Plate
6.	626-300068	Yoke Lock Pin
7.	900-4905-43	Yoke Spring Adjuster
8.	900-4900-04	Yoke Spring
9.	900-1901-08	Yoke Pivot Bearing
10.	626-200010	Top Yoke Assembly
11.	937-900009	Torque Arm Cushion
12 a.	980-300515	Top Torque Arm Stop
b.	937-300316	Torque Arm Cushion Mount
13 a.	900-1909-80	Feedwheel Bearing (Grip-Tight Style)
b.	900-4909-23	Top Feedwheel Bearing Bolt (1/2”-13NC x 1 1/4” SHCS)
c.	900-4909-23	Bot. Feedwheel Bearing Bolt (1/2”-13NC x 1 1/4” SHCS)
14 a.	900-4909-53	Taper Pin With Nut (Start 6/05)
b.	900-4905-54	Taper Pin Only (Pre 6/05)
15 a.	626-300268	Coupler With Motor Nut and Taper Pin With Nut
b.	626-0001-69	Coupler With Motor Nut and Taper Pin
16 a.	900-7901-23	Rubber Coupler Guard - 17 3/4” (Start 6/05)
b.	900-7900-38	Rubber Coupler Guard - 15 3/4” (Pre 6/05)
c.	980-0508-57	Coupler Guard Mount (Not Shown)
17.	980-0124-98	Feedwheel Torque Arm
18.	900-3927-67	Top Feedwheel Hydraulic Motor
19 a.	980-300198	Bottom Torque Arm Stop
b.	937-300316	Torque Arm Cushion Mount
20.	900-3944-21	Bottom Feedwheel Hydraulic Motor
21.	981-1000-60	Trap Door Hinge
22.	626-200035	Trap Door Assembly
23 a.	900-4901-83	Trap Door Spring Lock
b.	900-7900-93	Rubber Cap (Not Shown)

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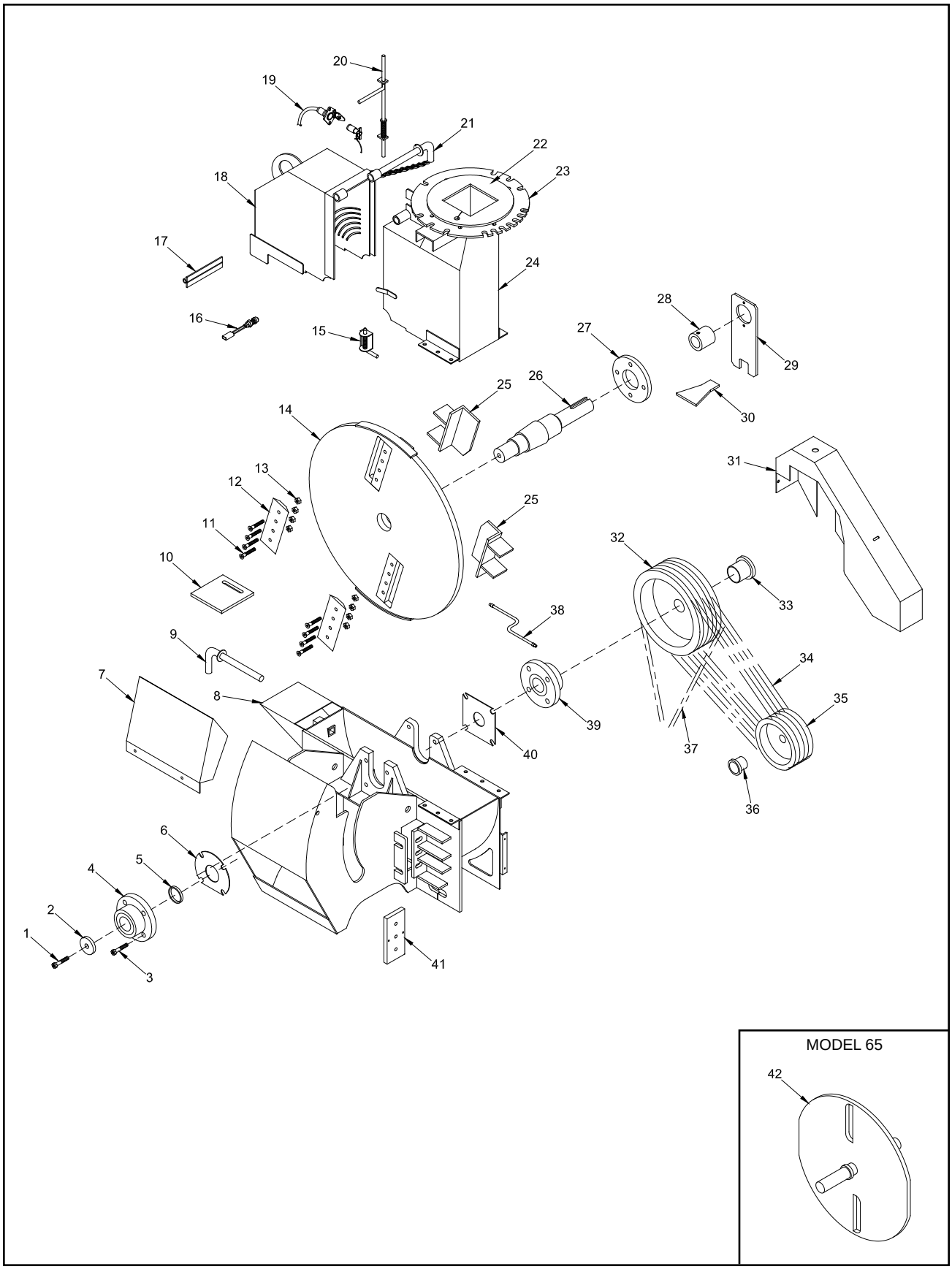
NOTICE Parts may not be exactly as shown.

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LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	900-4903-30	900-4902-78	Bearing Retainer Bolt
b.	900-4901-38	900-4900-33	Lock Washer (Not Shown)
2.	626-300082	980-0125-10	Bearing Retainer
3 a.	900-4906-72	900-4903-32	Front Chipper Bearing Bolt
b.	900-4906-86	900-4906-87	Lock Washer (Not shown)
4.	900-1904-13	900-1900-33	Front Chipper Bearing
5 a.	626-0001-93	980-0101-72	1/16” Disc Spacer
b.	626-0001-94	980-0101-73	1/8” Disc Spacer
c.	626-0001-95	980-0101-74	3/16” Disc Spacer
d.	626-0001-96	980-0101-75	1/4” Disc Spacer
e.	N/A	995-0001-04	5/16” Disc Spacer
f.	N/A	995-0001-05	3/8” Disc Spacer
6.	626-0000-66	980-0119-38	Front Chipper Bearing Backer Plate
7.	626-300079	995-0001-19	Feedwheel Guard
8.	626-300048	626-0001-78	Hood Stop
9.	626-300068	955-1015-32	Chipper Disc Lock Pin
10.	N/A	980-0118-10	Pump Mount
11.	See Page 98	See Page 98	Chipper Knife Bolt
12.	See Page 98	See Page 98	Chipper Knife
13.	See Page 98	See Page 98	Chipper Knife Nut
14 a.	See Page 97	995-0500-27	2-Knife Disc Assembly (Includes 11-14 & 25-27)
b.	See Page 97	995-0500-20	3-Knife Disc Assembly (Includes 11-14 & 25-27)
c.	See Page 97	980-0123-82	Chipper Disc Lock Tube On Disc
15 a.	900-4901-83	900-4908-27	Discharge Spring Lock
b.	900-7900-93	900-7900-96	Rubber Cap (Not Shown)
16.	626-100030	N/A	Engine Disable Plug Kit - Honda/Robin/Kohler Only
17.	626-300099	980-0101-59	Chipper Hood Hinge
18.	626-200006	995-0500-07	Chipper Hood Hinged Half
19 a.	626-100064	980-0509-04	Engine Disable Plug Kit (Includes Hood Pin & Mounts)
b.	900-2904-13	900-2904-13	6-Prong Female Plug Only
c.	980-100083	980-100083	6-Prong Male Plug Only With Wire Loop & Crimp Sleeves
20 a.	626-0501-16	980-0508-54	Spring Lock For Hood Pin
b.	900-7900-92	900-7900-93	Black Vinyl Cap (Not Shown)
21 a.	626-100068	981-1006-48	Hood Pin With Attaching Chain
b.	900-4902-20	900-4902-20	Padlock for Hood Pin (Not Shown)
c.	P812	P812	Key for Padlock (Not Shown)
22.	626-300106	980-300349	Hood Flange
23 a.	626-300401	980-300424	Bottom Swivel Ring for Manual Swivel Discharge
b.	626-300401	980-0128-23	Bottom Swivel Ring for Hand Crank Swivel Discharge
c.	N/A	980-0122-18	Bottom Swivel Ring for Hydraulic Swivel Discharge
24.	626-200007	995-0500-08	Chipper Hood Stationary Half

-- Contact your nearest dealer or Bandit Industries for Fan Blade Assemblies
** Components vary, order according to S/N of chipper or physical description.
For Chipper Disc only contact your nearest dealer or Bandit Industries.
Model 65 Disc Shaft is part of Chipper Disc Assembly.

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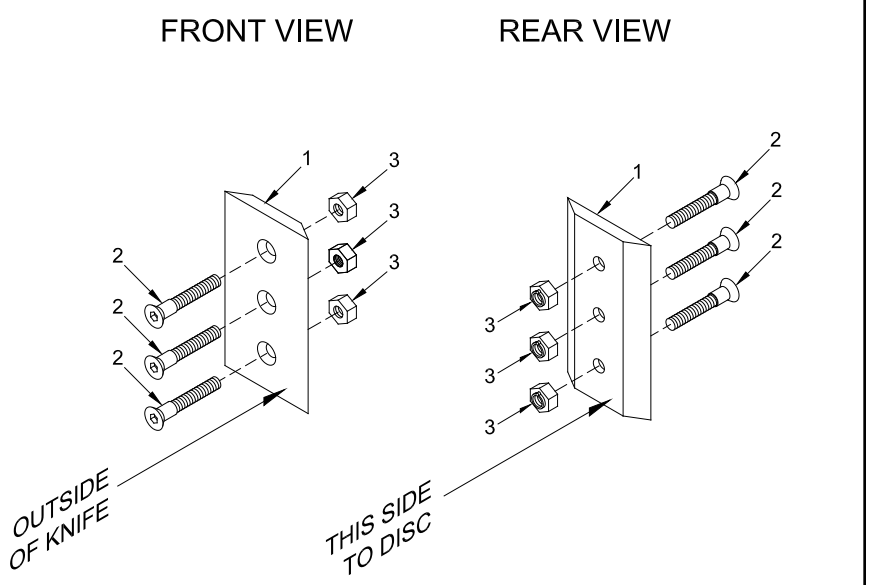
NOTICE Parts may not be exactly as shown.

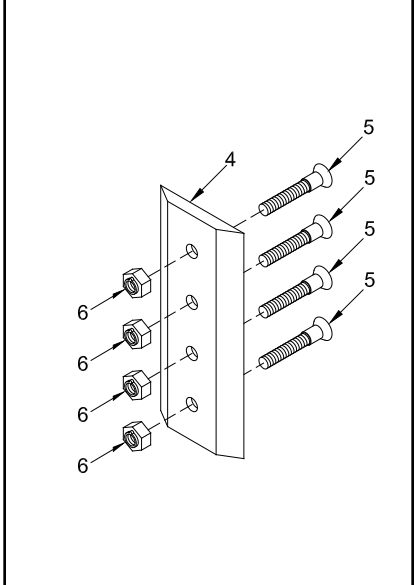
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LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
25.	*--*	*--*	Fan Blade Assembly
26.	See #42	980-0110-87	Chipper Disc Shaft
27 a.	N/A	980-0126-63	Chipper Draw Ring
b.	N/A	900-4902-06	Chipper Draw Ring Bolt (Not Shown)
c.	N/A	900-4902-97	Chipper Draw Ring Nut (Not Shown)
28.	926-1000-58	N/A	Hydraulic Pump Coupler
29.	626-0004-09	N/A	Hydraulic Pump Torque Arm
30.	626-0002-47	N/A	Hydraulic Pump Torque Arm Stop
31.	**	**	Belt Shield
32.	**	**	Chipper Sheave
33.	**	**	Chipper Sheave Bushing
34.	**	**	Chipper Belt
35.	**	**	Engine Sheave Bushing
36.	**	**	Engine Sheave
37.	**	**	Hydraulic Pump Belt
38.	900-3900-69	900-3900-24	Grease Line for Rear Chipper Bearing
39 a.	900-1903-30	900-1900-34	Rear Chipper Bearing
b.	900-4901-21	900-4903-32	Rear Chipper Bearing Bolt (Not Shown)
c.	900-4906-87	900-4906-87	Lock Washer (Not shown)
40.	926-1002-61	980-0121-65	Rear Chipper Bearing Backer Plate
41.	See Page 97	See Page 97	4 Sided Anvil Assembly
42 a.	626-200060	See Page 95	2-Knife Disc With Shaft, Fan Blades, Knives, & Hardware
b.	626-200061	See Page 95	3-Knife Disc With Shaft, Fan Blades, Knives, & Hardware
c.	626-300084	See Page 95	Chipper Disc Lock Tube On Disc

-- Contact your nearest dealer or Bandit Industries for Fan Blade Assemblies
** Components vary, order according to S/N of chipper or physical description.
For Chipper Disc only contact your nearest dealer or Bandit Industries.
Model 65 Disc Shaft is part of Chipper Disc Assembly.

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KNIFE BOLTS MUST BE INSTALLED THROUGH KNIFE AND ESPECIALLY KNIFE NUT AS SHOWN

Part Numbers For Model 65 Knives

LOCATION	PART NUMBER	DESCRIPTION
1.	900-9902-00	1/2” x 4” x 7 1/4” Chipper Knife
2.	900-4901-04	1/2”-13NC x 2” Chipper Knife Bolt (70-80 ft-lbs or 95-108 Nm of Torque)
3.	900-4900-27	1/2”-13NC Chipper Knife Nut

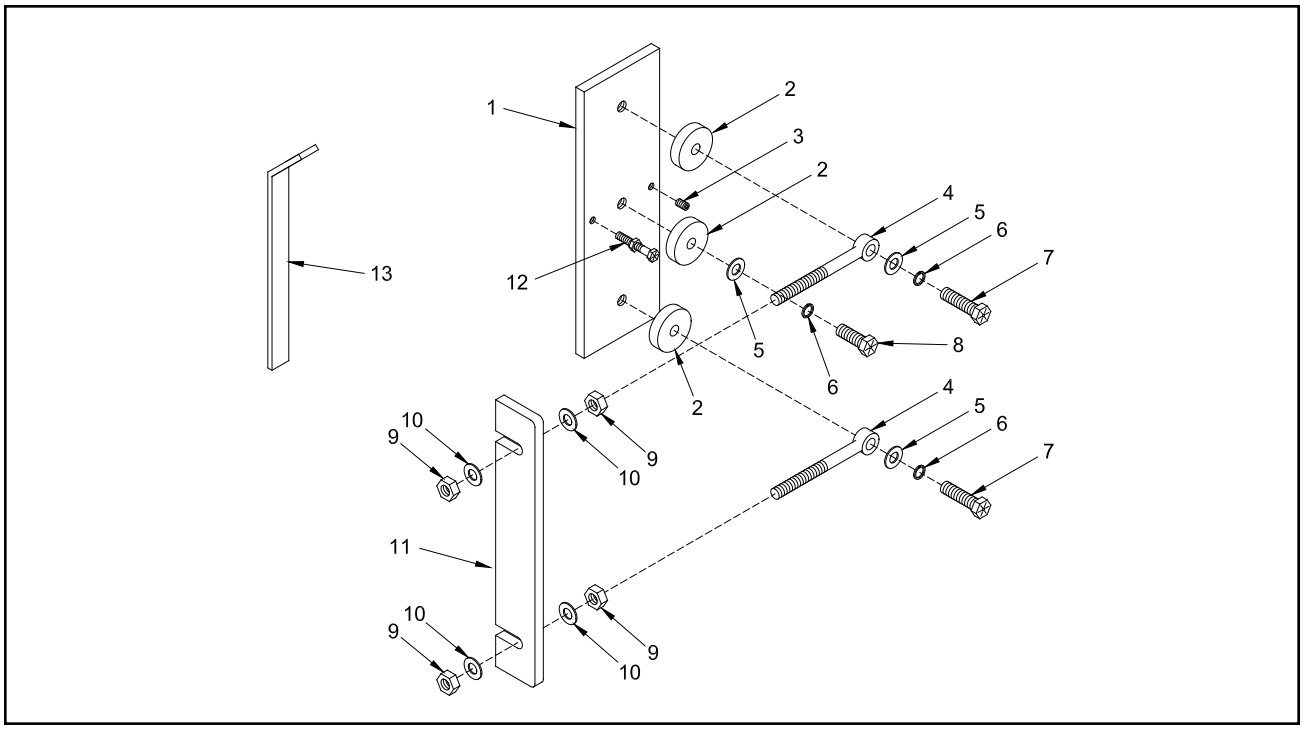
Part Numbers For Model 95 Knives

LOCATION	PART NUMBER	DESCRIPTION
4 a.	900-9901-17	9/16” x 3 5/8” x 10 1/8” Chipper Knife (Start 2/8/96)
b.	900-9900-94	9/16” x 2 3/4” x 10 1/8” Double Bevel Chipper Knife (Pre 2/8/96) (Not Shown)
5 a.	900-4900-53	1/2”-13NC x 2 1/2” Chipper Knife Bolt (Start 2/8/96) (70-80 ft-lbs or 95-108 Nm of Torque)
b.	900-4901-04	1/2”-13NC x 2” Chipper Knife Bolt (Pre 2/8/96) (70-80 ft-lbs or 95-108 Nm of Torque)
6.	900-4900-27	1/2”-13NC Chipper Knife Nut

Part Numbers For Miscellaneous Knife Parts

LOCATION	PART NUMBER	DESCRIPTION
7.	900-9901-68	Knife Saver Kit (Not Shown)
8.	900-9901-65	File For Knife Saver Kit Only (Not Shown)
9.	900-9901-63	Replacement Blades For Knife Saver (Not Shown)

NOTICE Parts may not be exactly as shown.



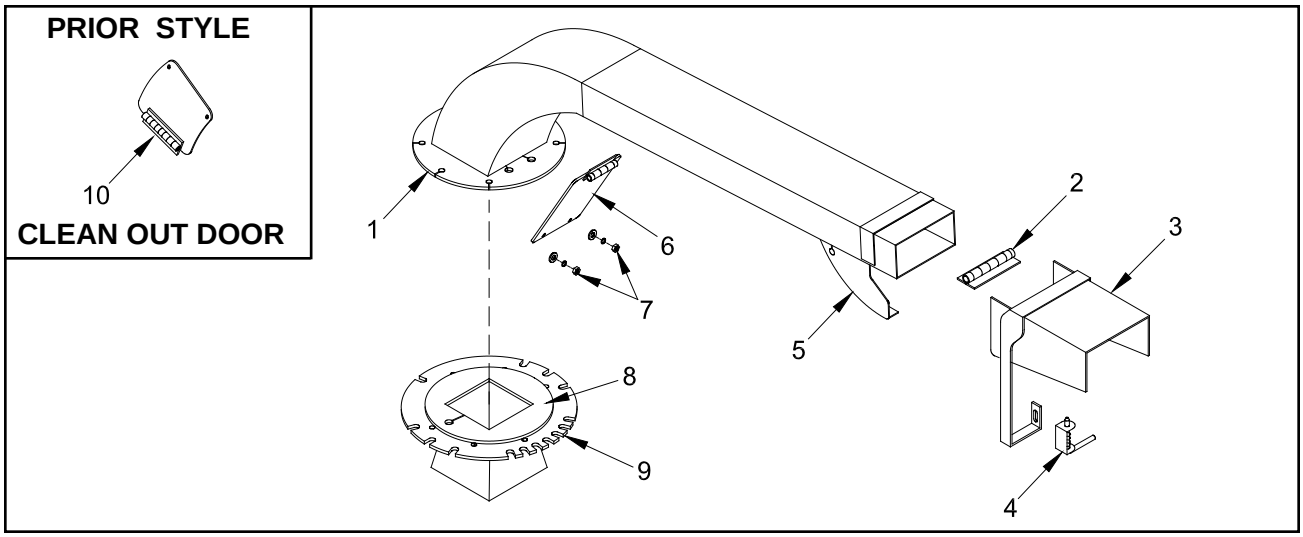
LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	626-300094	995-0001-67	Anvil Only - 4 Sided
b.	626-0003-13	995-0001-68	“AR” Anvil Only - 4 Sided
2.	900-4902-63	995-0001-00	Anvil Washer (Model 95 has square washers)
3 a.	900-4903-54	N/A	5/16”-18NC x 1/2” Set Screw
b.	N/A	900-4903-56	5/16”-18NC x 3/4” Set Screw
4 a.	900-4905-43	N/A	Anvil Eye Bolt - 1/2”-13NC x 3 1/2”
b.	N/A	900-4905-11	Anvil Eye Bolt - 5/8”-11NC x 6”
5.	900-4906-88	N/A	1/2” Flat Washer
6 a.	900-4900-31	N/A	1/2” High Collar Lock Washer
b.	N/A	900-4906-87	5/8” Lock Washer
7 a.	900-4900-74	N/A	1/2”-13NC x 2” Hex Head Bolt
b.	N/A	900-4906-95	5/8”-11NC x 2 1/2” Hex Head Bolt
8 a.	900-4906-72	N/A	1/2”-13NC x 1 1/2” Hex Head Bolt
b.	N/A	900-4906-93	5/8”-11NC x 1 3/4” Hex Head Bolt
9 a.	900-4906-82	N/A	1/2”-13NC Hex Nut
b.	N/A	900-4907-04	5/8”-11NC Hex Nut
10 a.	900-4906-90	N/A	1/2” USS Flat Washer
b.	N/A	900-4907-10	5/8” USS Flat Washer
11.	626-300095	995-0001-72	Anvil Puller Block
12 a.	900-4902-17	900-4902-17	5/16”-18NC x 2” Hex Head Bolt
b.	900-4902-18	900-4902-18	5/16”-18NC Hex Nut
13.	981-1006-16	981-1006-16	Anvil Gauge
14.	626-0500-77	995-0500-12	Anvil Hardware Only (Includes 2 Through 10, & 12)
15.	626-0500-69	995-0500-39	Anvil and Hardware Kit (Includes 1a Through 10, & 12)

Model 65 Anvil Bolt Torque: 65-75 ft.-lbs. (88-102 Nm)
Model 95 Anvil Bolt Torque: 120 ft.-lbs. (163 Nm)

NOTICE Parts may not be exactly as shown.

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STANDARD DISCHARGE



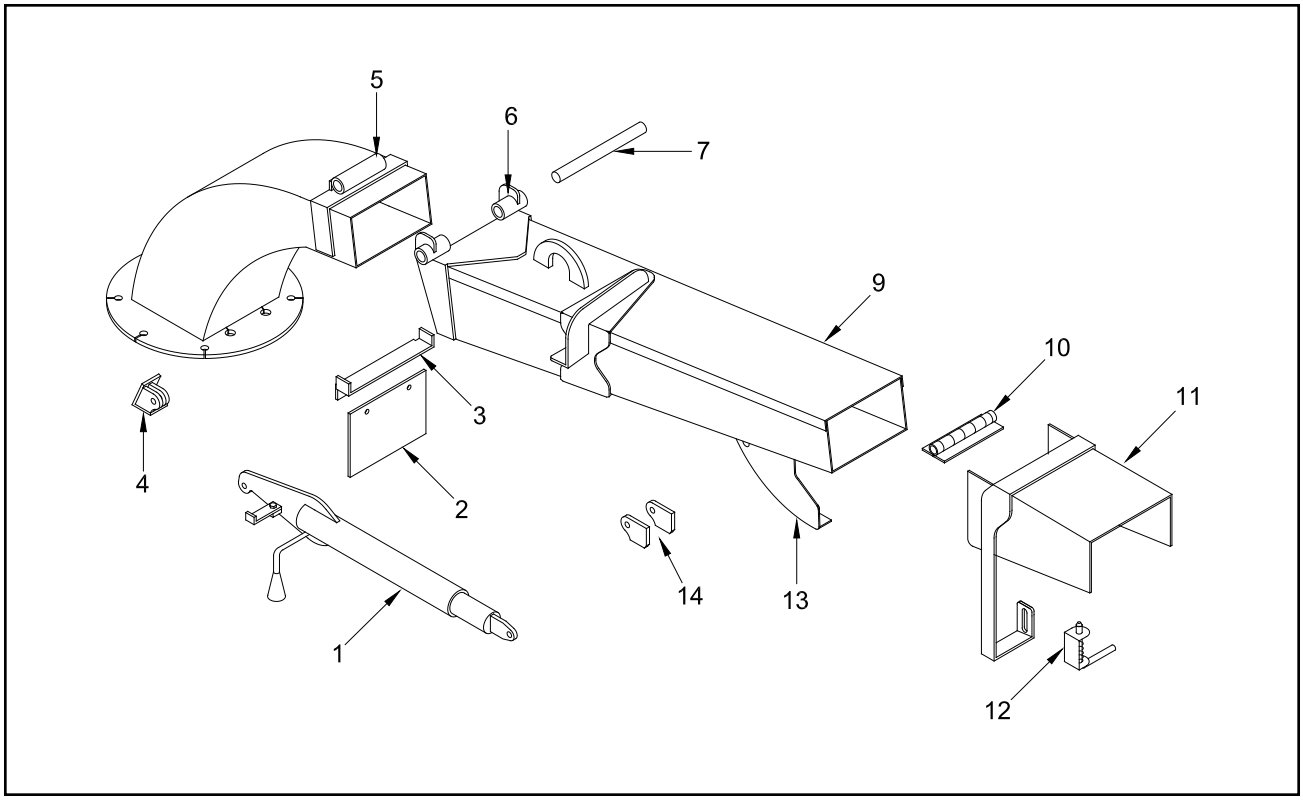
LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-300108	980-0127-33	Discharge Bottom Swivel Ring
2.	626-300114	981-1001-63	Discharge Flipper Hinge
3 a.	626-200037	980-0509-26	12” Discharge Flipper Assembly (Includes 2 & 4)
b.	626-200038	980-0510-25	12” Enclosed Discharge Flipper Assembly (Includes 2 & 4)
c.	N/A	980-0505-90	30” Discharge Flipper Assembly
4.	900-4901-83	900-4901-83	Discharge Flipper Adjusting Spring
5 a.	626-200039	980-0510-23	Adjusting Spring Lock Plate Assembly For Standard Flipper
b.	626-200040	980-0510-24	Adjusting Spring Lock Plate Assembly For Enclosed Flipper
6.	626-300385	980-300616	Optional Clean Out Door (Optional On All Discharges)
7 a.	900-4910-73	900-4910-73	5/16”-18NC Hex Nut
b.	900-4906-47	900-4906-47	5/16” Lock Washer
c.	900-4906-48	900-4906-48	5/16” Flat Washer
8.	626-300106	980-300349	Hood Flange
9.	626-300401	980-300424	Bottom Swivel Ring
10.	626-0501-07	980-0509-94	Optional Clean Out Door Assembly (Pre 9/06)
11 a.	900-4910-54	N/A	Discharge Transport Bolt - 3/8”-16NC x 1 1/2” (Not Shown)
b.	900-4906-60	N/A	Discharge Transport Nut - 3/8”-16NC (Not Shown)
c.	N/A	900-4911-04	Discharge Transport Bolt - 5/8”-11NC x 1 1/2” (Not Shown)
d.	N/A	900-4903-25	Discharge Transport Nut - 5/8”-11NC (Not Shown)

DISCHARGE ASSEMBLIES

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-200016	986-0501-23	Standard Discharge Assembly
2.	626-200041	986-0502-13	Hand Crank And Adjustable Height Discharge Assembly
3.	626-200042	986-0501-85	Hand Crank Discharge Assembly
4.	N/A	986-0502-14	Hydraulic Swivel And Adjustable Height Discharge Assembly
5.	N/A	986-0501-84	Hydraulic Swivel Discharge Assembly
6.	626-200015	986-0501-76	Adjustable Height Discharge Assembly
7.	626-20001-06	N/A	Bagger Discharge Assembly (7” Wide Base)

NOTICE Parts may not be exactly as shown.

HAND CRANK ADJ. HEIGHT DISCHARGE

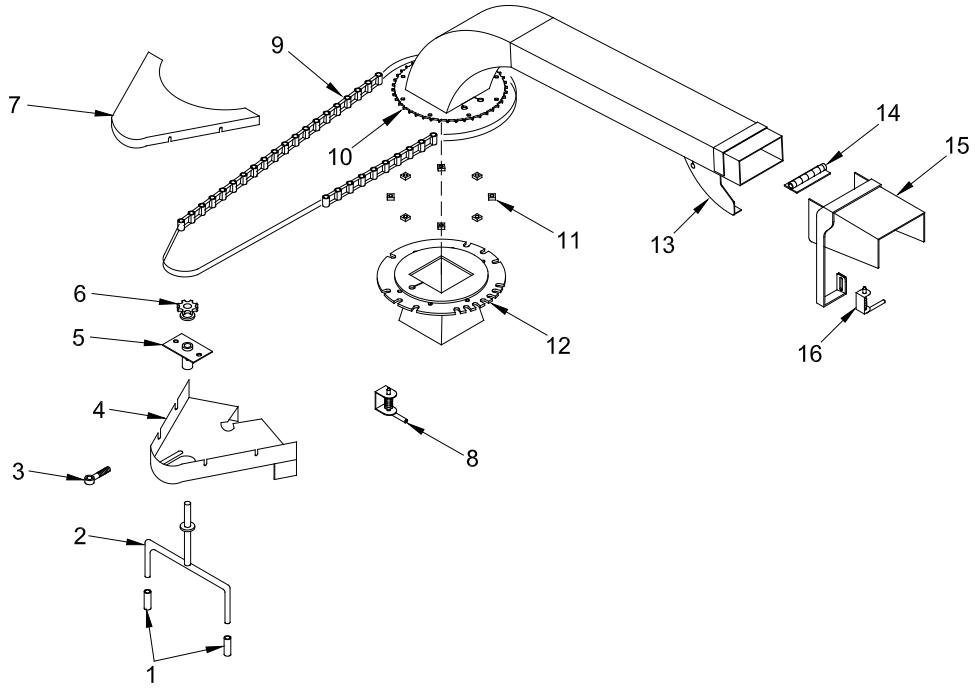


LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	980-0510-86	980-0510-86	Hand Crank For Adj. Height Discharge - Mounted On The Side
b.	980-0508-51	980-0508-51	Hand Crank For Adj. Height Discharge - Mounted Underneath
2.	626-300157	980-0126-12	Rubber Discharge Guard
3.	626-300272	937-300318	Rubber Discharge Guard Mount
4.	980-300032	980-300032	Hand Crank Adj. Height Mount Brackets
5.	626-300200	980-300210	Hand Crank Adj. Height Hinge Large Hinge Tube
6.	980-300211	980-300211	Hand Crank Adj. Height Small Hinge Tube
7.	626-300201	980-300209	Hand Crank Adj. Height Hinge Pin
8.	626-200043	980-200091	Hand Crank Adj. Height Hinge Assembly (Includes #'s 5 - 7)
9.	626-200015	980-200089	Straight Section Hand Crank Adj. Height Discharge
10.	626-300114	981-1001-63	Discharge Flipper Hinge
11 a.	626-200037	980-0509-26	12" Discharge Flipper Assembly (Includes 10 & 12)
b.	626-200038	980-0510-25	12" Enclosed Discharge Flipper Assembly (Includes 10 & 12)
c.	N/A	980-0505-90	30" Discharge Flipper Assembly
12.	900-4901-83	900-4901-83	Discharge Flipper Adjusting Spring
13 a.	626-200039	980-0510-23	Adjusting Spring Lock Plate Assembly For Standard Flipper
b.	626-200040	980-0510-24	Adjusting Spring Lock Plate Assembly For Enclosed Flipper
14.	980-300032	980-300032	Hand Crank Adj. Height Mount Brackets
15 a.	900-4910-54	N/A	Discharge Transport Bolt - 3/8"-16NC x 1 1/2" (Not Shown)
b.	900-4906-60	N/A	Discharge Transport Nut - 3/8"-16NC (Not Shown)
c.	N/A	900-4911-04	Discharge Transport Bolt - 5/8"-11NC x 1 1/2" (Not Shown)
d.	N/A	900-4903-25	Discharge Transport Nut - 5/8"-11NC (Not Shown)

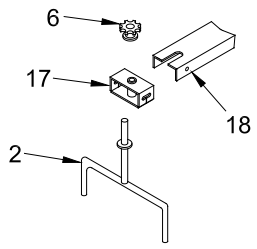
NOTICE Parts may not be exactly as shown.

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HAND CRANK SWIVEL DISCHARGE



PRIOR MODEL 65



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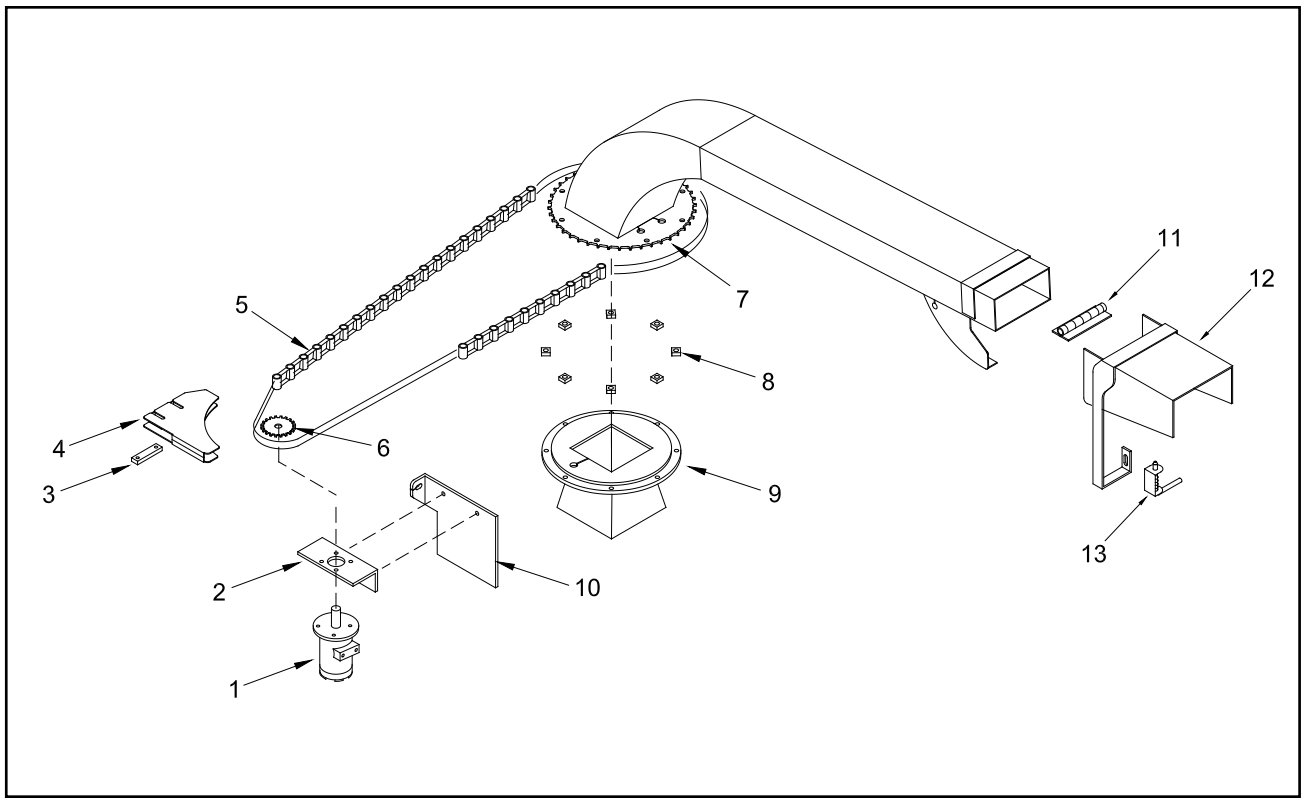
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HAND CRANK SWIVEL DISCHARGE

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	900-7900-96	900-7900-96	Rubber Cap
2.	980-0509-41	980-0509-41	T-Handle Assembly
3.	900-4905-43	900-4905-43	Eye Bolt Adjuster For Hand Crank Swivel Discharge
4 a.	626-300325	980-200113	Bottom Chain Guard - Rounded Style
b.	N/A	980-0138-21	Bottom Chain Guard - Square Style
5.	626-200097	980-200006	Chain Adjuster Assembly
6 a.	900-1905-59	900-1905-59	T-Handle Sprocket
b.	980-0125-82	980-0125-82	Key For Sprocket (Not Shown)
7 a.	626-300326	980-200108	Steel Top Chain Guard - Rounded Style
b.	N/A	900-9904-64	Plastic Top Chain Guard - Rounded Style
c.	N/A	980-0138-22	Steel Top Chain Guard - Square Style
8.	900-4901-83	900-4904-90	Spring Plunger
9 a.	900-1901-20	900-1901-20	#50 Roller Chain
b.	900-1901-18	900-1901-18	Half Link - Chain (Not Shown)
c.	900-1901-19	900-1901-19	Master Link - Chain (Not Shown)
10.	626-300193	980-0127-32	Sprocket For Hand Crank Swivel Discharge (Weld On)
11.	900-4905-00	980-0137-35	Spacer Block
12.	626-300107	980-0128-23	Bottom Swivel Ring
13 a.	626-200039	980-0510-23	Adjusting Spring Lock Plate Assembly For Standard Flipper
b.	626-200040	980-0510-24	Adjusting Spring Lock Plate Assembly For Enclosed Flipper
14.	626-300114	981-1001-63	Discharge Flipper Hinge
15 a.	626-200037	980-0509-26	12” Discharge Flipper Assembly (Includes 14 & 16)
b.	626-200038	980-0510-25	12” Enclosed Discharge Flipper Assembly (Includes 14 & 16)
c.	N/A	980-0505-90	30” Discharge Flipper Assembly
16.	900-4901-83	900-4901-83	Discharge Flipper Adjusting Spring
17.	980-0509-40	N/A	Chain Adjuster Assembly (Pre 3/06 approximately)
18.	626-300177	N/A	Hand Crank Swivel Mount (Pre 3/06 approximately)
19 a.	900-4910-54	N/A	Discharge Transport Bolt - 3/8”-16NC x 1 1/2” (Not Shown)
b.	900-4906-60	N/A	Discharge Transport Nut - 3/8”-16NC (Not Shown)
c.	N/A	900-4911-04	Discharge Transport Bolt - 5/8”-11NC x 1 1/2” (Not Shown)
d.	N/A	900-4903-25	Discharge Transport Nut - 5/8”-11NC (Not Shown)

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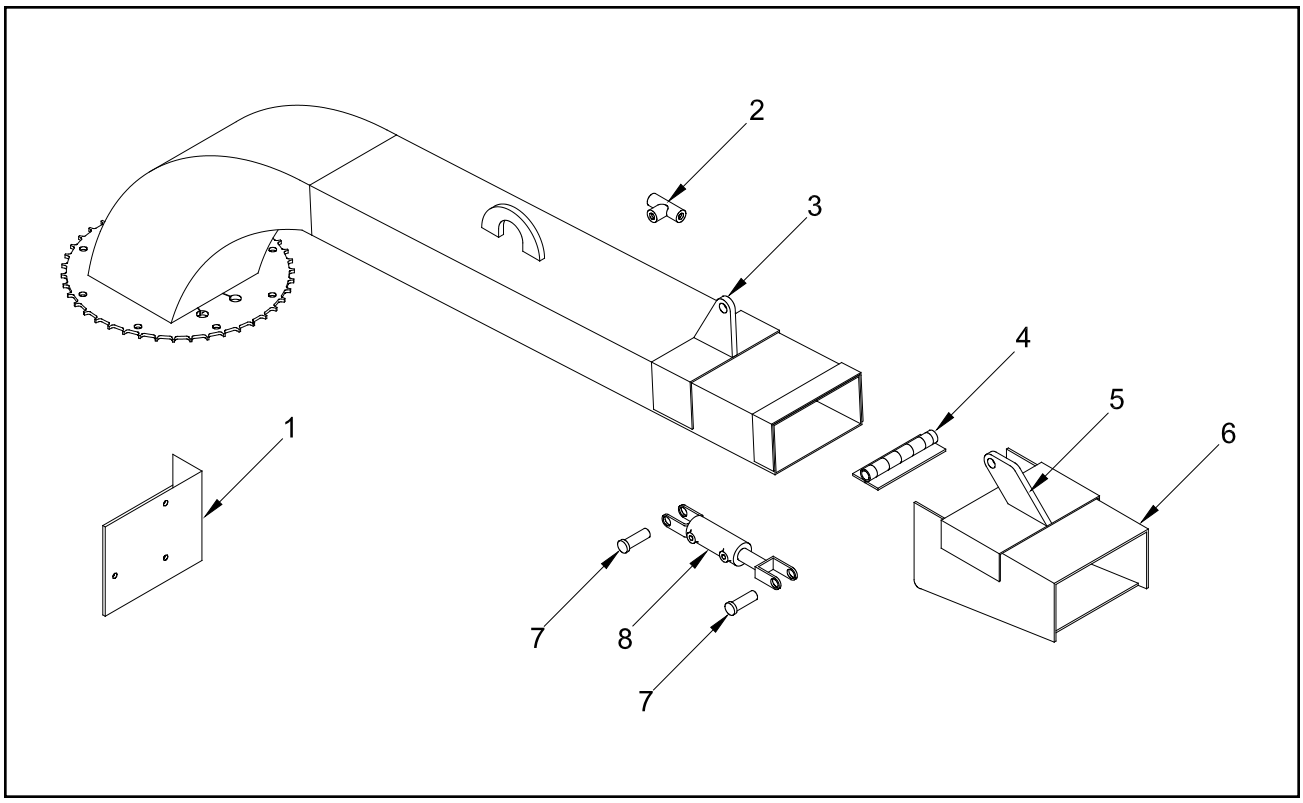
MODEL 95 - HYDRAULIC SWIVEL DISCHARGE



LOCATION	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	900-3921-57	Discharge Swivel Hydraulic Motor - SAE O-ring
b.	900-3902-14	Discharge Swivel Hydraulic Motor - Pipe Fitting
2.	980-0110-66	Hydraulic Swivel Mount
3.	980-0126-04	Chain Guard Mount
4.	980-200086	Hydraulic Swivel Chain Guard
5 a.	900-1901-20	#50 Roller Chain
b.	900-1901-18	Half Link- Chain (Not Shown)
c.	900-1901-19	Master Link - Chain (Not Shown)
6.	900-1901-21	Sprocket For Hydraulic Motor
7.	980-0110-63	Sprocket For Discharge (Weld On)
8.	980-0137-35	Spacer Block
9.	980-0122-18	Bottom Swivel Ring
10.	914-1006-17	Hydraulic Swivel Motor Mount
11.	981-1001-63	Discharge Flipper Hinge
12 a.	980-0509-26	12” Discharge Flipper Assembly (Includes 11 & 13)
b.	980-0510-25	12” Enclosed Discharge Flipper Assembly (Includes 11 & 13)
c.	980-0505-90	30” Discharge Flipper Assembly
13.	900-4901-83	Discharge Flipper Adjusting Spring
14 a.	900-4911-04	Discharge Transport Bolt - 5/8”-11NC x 1 1/2” (Not Shown)
b.	900-4903-25	Discharge Transport Nut - 5/8”-11NC (Not Shown)

NOTICE Parts may not be exactly as shown.

MODEL 95 - DISCHARGE WITH HYDRAULIC FLIPPER

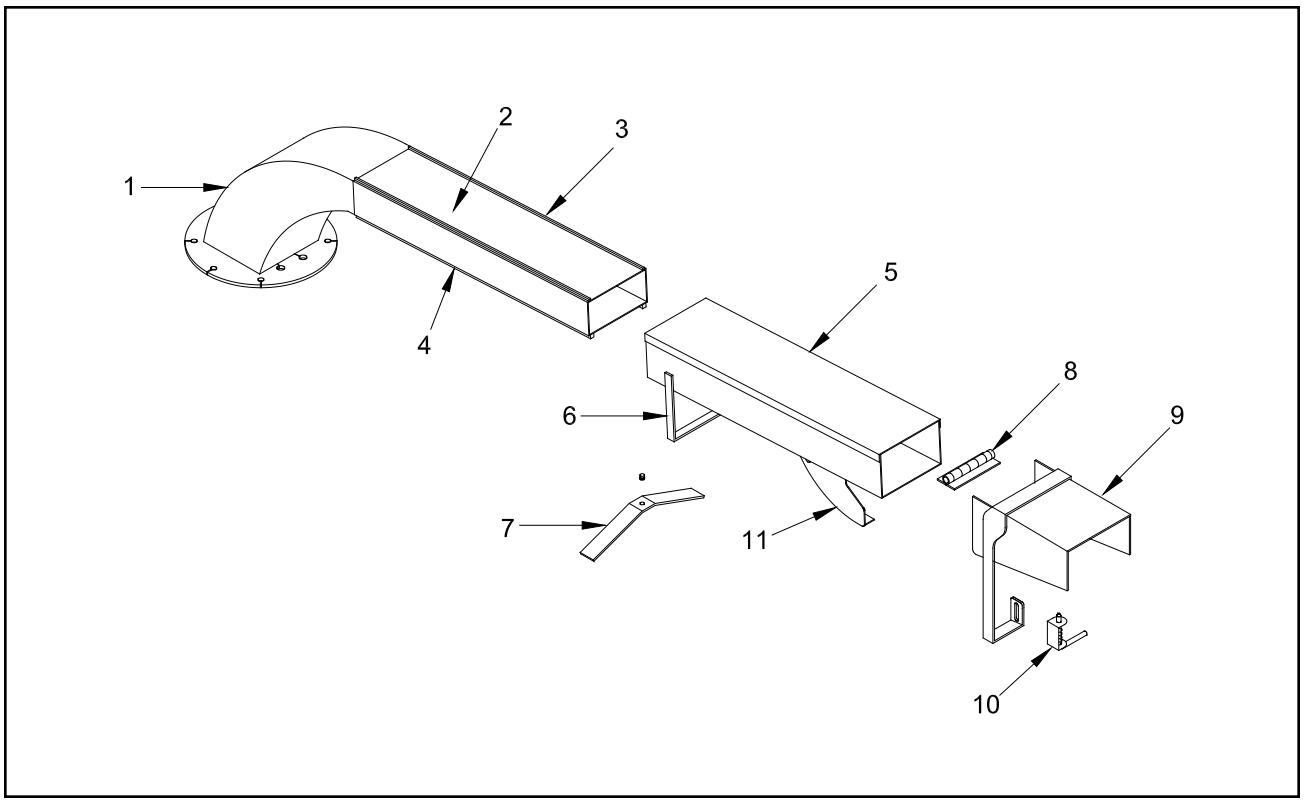


LOCATION	MODEL 95 PART NUMBER	DESCRIPTION
1.	980-0128-78	Hydraulic Flipper Control Valve Mount Plate
2.	900-3925-18	Check Valve
3.	960-0006-42	Straight Section Cylinder Lug
4.	981-1001-63	Hydraulic Flipper Hinge
5.	980-0126-48	Flipper Lug
6.	980-0510-02	Hydraulic Flipper Assembly - Enclosed (Includes 4 & 5)
7.	900-3930-71	Cylinder Lug Pin - 3/4” Dia. x 2 1/2” & Cotter Pin - 1/4” x 1 1/2”
8.	900-3928-16	Hydraulic Flipper Cylinder
9.	900-3916-62	Swivel Discharge & Discharge Flipper Control Valve (Not Shown)
10 a.	900-4911-04	Discharge Transport Bolt - 5/8”-11NC x 1 1/2” (Not Shown)
b.	900-4903-25	Discharge Transport Nut - 5/8”-11NC (Not Shown)

NOTICE Parts may not be exactly as shown.

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MODEL 95 - TELESCOPIC DISCHARGE

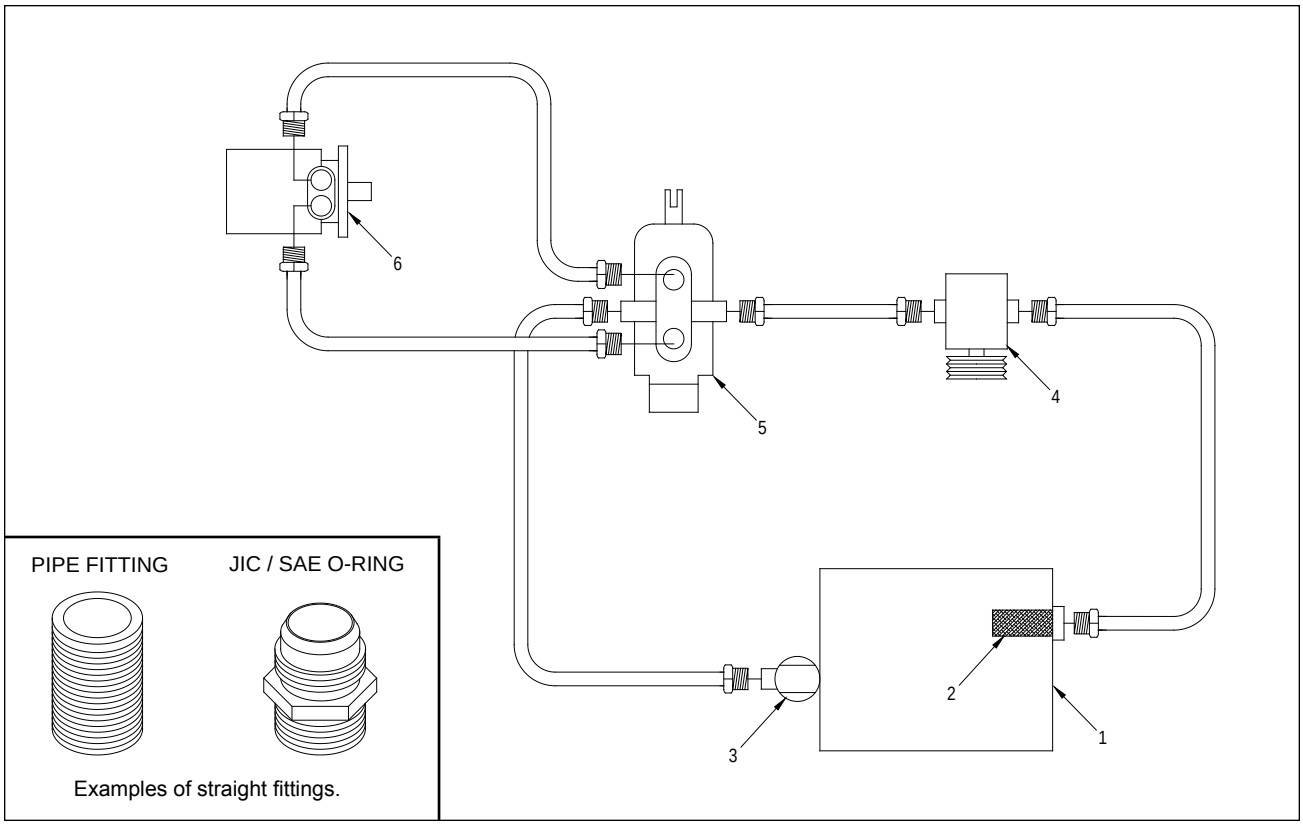


LOCATION	MODEL 95 PART NUMBER	DESCRIPTION
1.	980-0510-03	Telescopic Discharge Assembly
2.	980-0510-26	Telescopic Discharge Straight Section Assembly
3.	980-0120-11	Telescopic Discharge Top Wear Slide
4.	980-0120-12	Telescopic Discharge Bottom Wear Slide
5.	980-0510-27	Telescopic Discharge Slide Section
6.	980-0120-09	Telescopic Discharge Slide Arm
7.	980-0505-68	Telescopic Discharge Lock Handle
8.	981-1001-63	Discharge Flipper Hinge
9 a.	980-0509-26	12” Discharge Flipper Assembly (Includes 8 & 10)
b.	980-0510-25	12” Enclosed Discharge Flipper Assembly (Includes 8 & 10)
c.	980-0505-90	30” Discharge Flipper Assembly
10.	900-4901-83	Discharge Flipper Adjusting Spring
11 a.	980-0510-23	Adjusting Spring Lock Plate Assembly For Standard Flipper
b.	980-0510-24	Adjusting Spring Lock Plate Assembly For Enclosed Flipper
12 a.	900-4911-04	Discharge Transport Bolt - 5/8”-11NC x 1 1/2” (Not Shown)
b.	900-4903-25	Discharge Transport Nut - 5/8”-11NC (Not Shown)

NOTICE Parts may not be exactly as shown.

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TYPICAL MODELS 65/95 HYDRAULIC SCHEMATIC
(With No Options)

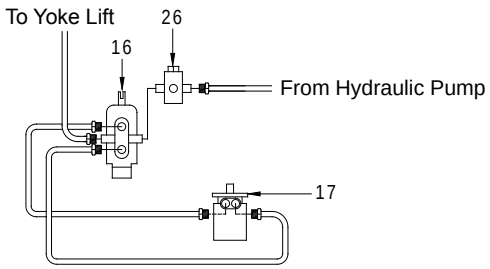


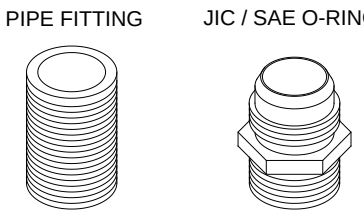
LOCATION		MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.		See Pages 126-127	See Page 128-129	Hydraulic Tank
2.		900-3900-07	900-3900-07	Hydraulic Tank Strainer
3	a.	900-3900-09	900-3900-09	Filter Head
	b.	900-3900-10	900-3900-10	Filter
4.		**	**	Hydraulic Pump
5	a.	900-3920-06A	900-3920-06A	Feedwheel Control Valve With Relief - SAE O-ring
	b.	900-3909-89	900-3909-89	Feedwheel Control Valve With Relief - Pipe Fitting
6	a.	900-3927-67	900-3908-68	Feedwheel Hydraulic Motor (Tapered Shaft)
	b.	N/A	900-3908-19	Feedwheel Hydraulic Motor (RE-32 With Straight Shaft)
	c.	N/A	900-3906-30	Feedwheel Hydraulic Motor (RE-45 With Straight Shaft)

NOTICE Make sure to order components according to fitting type, fittings may vary on all components.
**** Hydraulic components, fittings, hoses will very depending on optional equipment. Order by physical description.**
**** Hydraulic pumps need to be ordered by physical description and serial number of machine.**

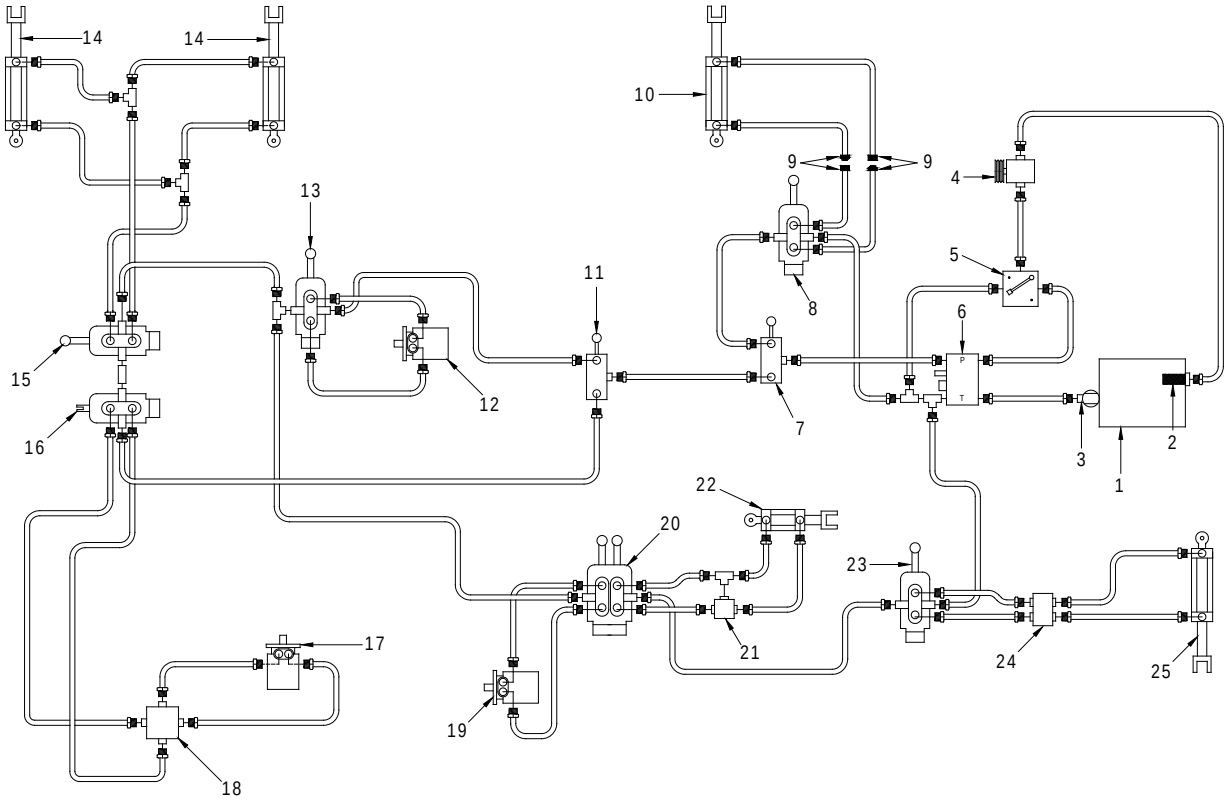
NOTICE Parts may not be exactly as shown.

TYPICAL MODELS 65/95
HYDRAULIC SCHEMATIC (With Options)





Examples of straight fittings.



NOTICE Parts may not be exactly as shown.

Copyright 1/10

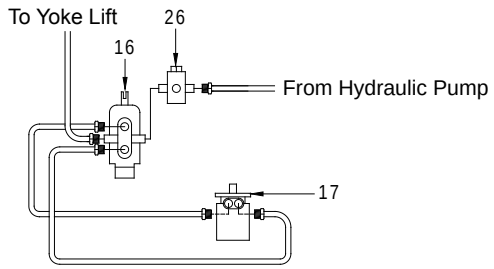
TYPICAL MODELS 65/95
HYDRAULIC SCHEMATIC (With Options)

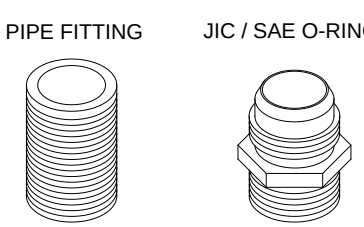
LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	See Page 126-127	See Page 128-129	Hydraulic Tank
2.	900-3900-07	900-3900-07	Hydraulic Tank Strainer
3 a.	900-3900-09	900-3900-09	Filter Head
b.	900-3900-10	900-3900-10	Filter
4.	**	**	Hydraulic Pump
5 a.	900-3924-56	900-3924-56	Variable Speed Control Valve - SAE O-ring
b.	900-3911-53	900-3911-53	Variable Speed Control Valve - Pipe Fitting
6.	See Pages 114-115	See Pages 114-115	Relief Block With Autofeed Option
7 a.	900-3936-39	900-3936-39	Chip Box Selector Control Valve - SAE O-ring (Replaces 900-3920-58)
b.	900-3913-41	900-3913-41	Chip Box Selector Control Valve - Pipe Fitting
c.	900-3936-40	900-3936-40	5/16” Replacement Stud For Selector Valve (900-3936-39)
d.	900-3924-48	900-3924-48	1/4” Replacement Stud For Selector Valve (900-3920-58 & 900-3913-41)
8 a.	900-3920-01	900-3920-01	Chip Box Lift Control Valve - SAE O-ring
b.	900-3901-42	900-3901-42	Chip Box Lift Control Valve - Pipe Fitting
9.	900-3906-84	900-3906-84	Quick Disconnects (Chip Box Option)
10.	900-3906-77	900-3906-77	Chip Box Lift Cylinder - Tie Rod (Chip Box Option)
11 a.	N/A	900-3936-39	Winch Selector Control Valve - SAE O-ring (Replaces 900-3920-58)
b.	N/A	900-3913-41	Winch Selector Control Valve - Pipe Fitting
c.	N/A	900-3936-40	5/16” Replacement Stud For Selector Valve (900-3936-39)
d.	N/A	900-3924-48	1/4” Replacement Stud For Selector Valve (900-3920-58 & 900-3913-41)
12 a.	N/A	900-3921-57	Winch Hydraulic Motor - SAE O-ring
b.	N/A	900-3902-14	Winch Hydraulic Motor - Pipe Fitting
13 a.	N/A	900-3920-01	Winch Control Valve - SAE O-ring
b.	N/A	900-3901-42	Winch Control Valve - Pipe Fitting
14 a.	N/A	900-3925-02	Yoke Lift Cylinder - Welded
b.	N/A	904-0007-14	Pin For Welded Cylinder (Not Shown)
c.	N/A	904-0006-90	Seal Kit - Welded Lift Cylinder (Not Shown)
d.	N/A	900-3905-37	Seal Kit - Tie Rod Lift Cylinder (Not Shown)
15 a.	N/A	900-3927-73	Yoke Lift Control Valve For Dual Control Yoke Lift - SAE O-ring
b.	N/A	900-3920-09	Yoke Lift Control Valve With Winch Option - SAE O-ring
c.	N/A	900-3908-62	Yoke Lift Control Valve With Winch Option - Pipe Fitting
d.	N/A	900-3920-02	Yoke Lift Control Valve Without Winch Option - SAE O-ring
e.	N/A	900-3901-24	Yoke Lift Control Valve Without Winch Option - Pipe Fitting
16 a.	900-3920-05	900-3920-05	Feedwheel Control Valve Without Relief - SAE O-ring
b.	900-3914-47	900-3914-47	Feedwheel Control Valve Without Relief - Pipe Fitting
17 a.	900-3927-67	900-3908-68	Feedwheel Hydraulic Motor (Tapered Shaft)
b.	N/A	900-3908-19	Feedwheel Hydraulic Motor (RE-32 With Straight Shaft)
c.	N/A	900-3906-30	Feedwheel Hydraulic Motor (RE-45 With Straight Shaft)
18.	See Pages 114-115	See Pages 114-115	Reversing “Autofeed Plus”

NOTICE Make sure to order components according to fitting type, fittings may vary on all components.
**** Hydraulic components, fittings, hoses will very depending on optional equipment. Order by physical description.**
**** Hydraulic pumps need to be ordered by physical description and serial number of machine.**

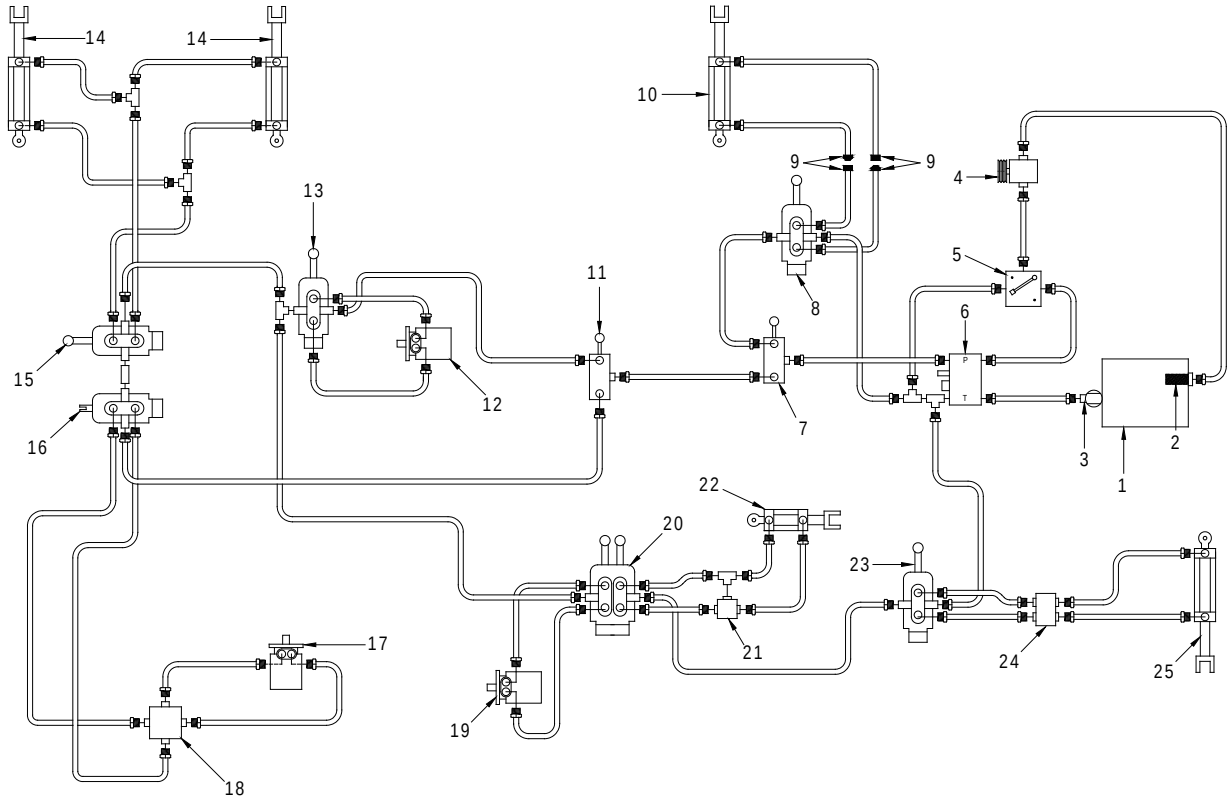
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TYPICAL MODELS 65/95
HYDRAULIC SCHEMATIC (With Options)





Examples of straight fittings.



NOTICE Parts may not be exactly as shown.

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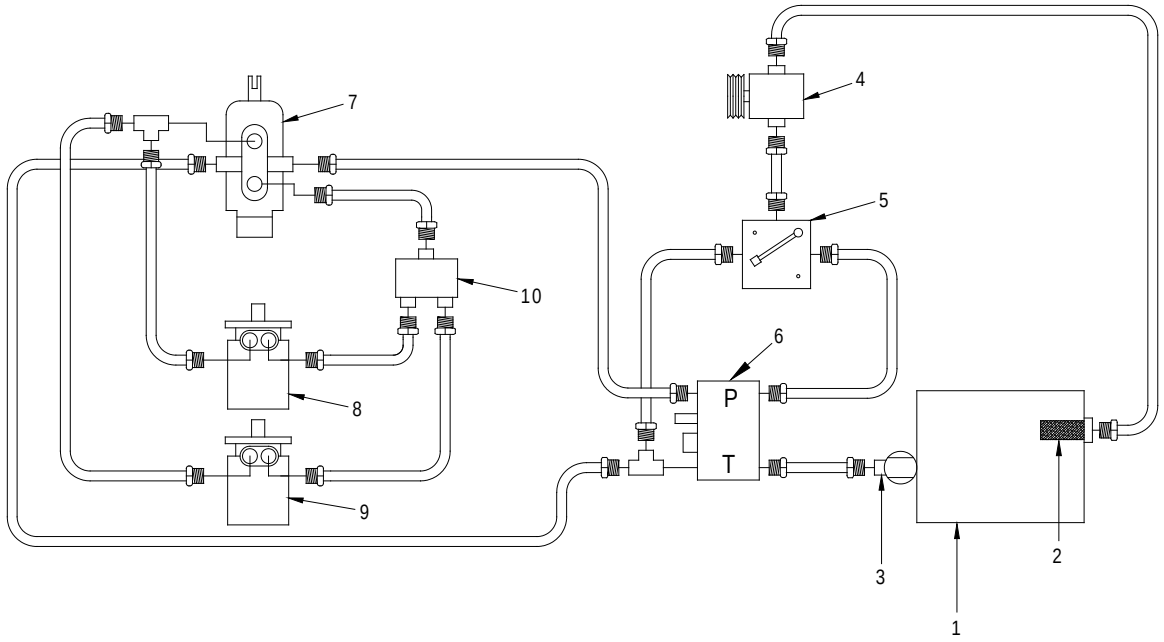
TYPICAL MODELS 65/95
HYDRAULIC SCHEMATIC (With Options)

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
19 a.	N/A	900-3921-57	Swivel Discharge Hydraulic Motor - SAE O-ring
b.	N/A	900-3902-14	Swivel Discharge Hydraulic Motor - Pipe Fitting
20 a.	N/A	900-3916-62	Swivel Discharge & Discharge Flipper Control Valve
b.	N/A	900-3920-01	Swivel Discharge Control Valve Only - SAE O-ring (Not Shown)
c.	N/A	900-3901-42	Swivel Discharge Control Valve Only - Pipe Fitting (Not Shown)
21.	N/A	900-3925-18	Flipper Check Valve
22.	N/A	900-3928-16	Discharge Flipper Cylinder
23 a.	N/A	900-3920-01	Tongue Jack Control Valve - SAE O-ring
b.	N/A	900-3901-42	Tongue Jack Control Valve - Pipe Fitting
24.	N/A	900-3925-94	Tongue Jack Check Valve
25.	N/A	900-3934-24	Tongue Jack Cylinder - Welded
26.	N/A	900-3907-31	Relief Block - Machines With Yoke Lift & Without Autofeed
27 a.	980-100121	980-100121	In-Line Pressure Check Kit - With Autofeed
b.	980-100122	980-100122	In-Line Pressure Check Kit - Without Autofeed
c.	900-3935-13	900-3935-13	In-Line Pressure Check Kit - Pre Horizontal Winch Mount
28 a.	N/A	900-3906-31	Hydraulic Power Tool Outlet (Not Shown)
b.	N/A	900-3901-19	Selector For Power Tool Outlet (Not Shown)

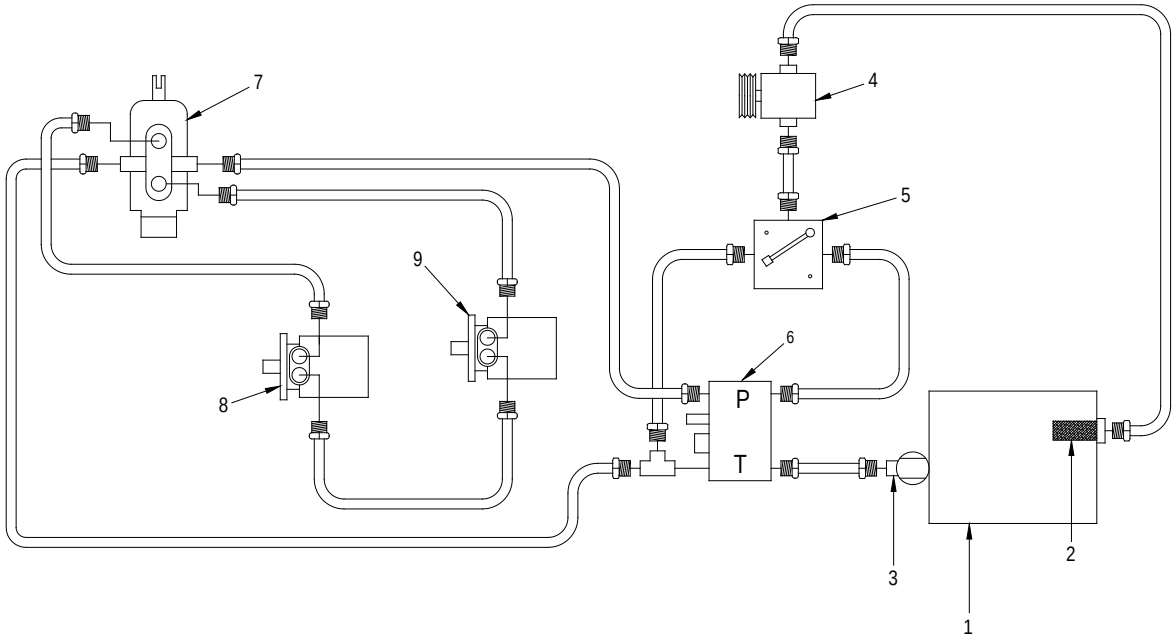
NOTICE Make sure to order components according to fitting type, fittings may vary on all components.
**** Hydraulic components, fittings, hoses will very depending on optional equipment. Order by physical description.**
**** Hydraulic pumps need to be ordered by physical description and serial number of machine.**

MODEL 65 WITH DUAL FEEDWHEEL OPTION HYDRAULIC SCHEMATIC

WITH FLOW DIVIDER (START 4/05)



WITHOUT FLOW DIVIDER (PRE 4/05)



NOTICE Parts may not be exactly as shown.

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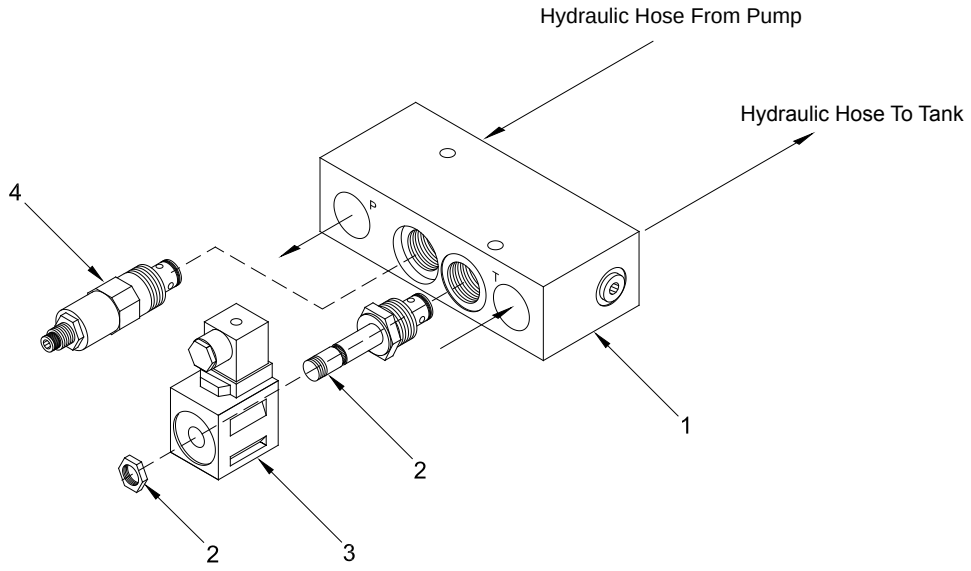
MODEL 65 WITH DUAL FEEDWHEEL OPTION HYDRAULIC SCHEMATIC

LOCATION	MODEL 65 PART NUMBER	DESCRIPTION
1.	See Pages 126-127	Hydraulic Tank
2.	900-3900-07	Hydraulic Tank Strainer
3 a.	900-3900-09	Filter Head
b.	900-3900-10	Filter
4.	**	Hydraulic Pump
5 a.	900-3924-56	Variable Speed Control Valve - SAE O-ring
b.	900-3911-53	Variable Speed Control Valve - Pipe Fitting
6.	See Pages 114-115	Relief Block With Autofeed Option
7 a.	900-3920-05	Feedwheel Control Valve Without Relief - SAE O-ring
b.	900-3914-47	Feedwheel Control Valve Without Relief - Pipe Fitting
8.	900-3927-67	Top Feedwheel Hydraulic Motor
9.	900-3944-21	Bottom Feedwheel Hydraulic Motor
10.	See Pages 116-117	Flow Divider (Start 4/05)
11 a.	980-100121	In-Line Pressure Check Kit - With Autofeed (Not Shown)
b.	980-100122	In-Line Pressure Check Kit - Without Autofeed (Not Shown)

NOTICE Make sure to order components according to fitting type, fittings may vary on all components.
**** Hydraulic components, fittings, hoses will very depending on optional equipment. Order by physical description.**
**** Hydraulic pumps need to be ordered by physical description and serial number of machine.**

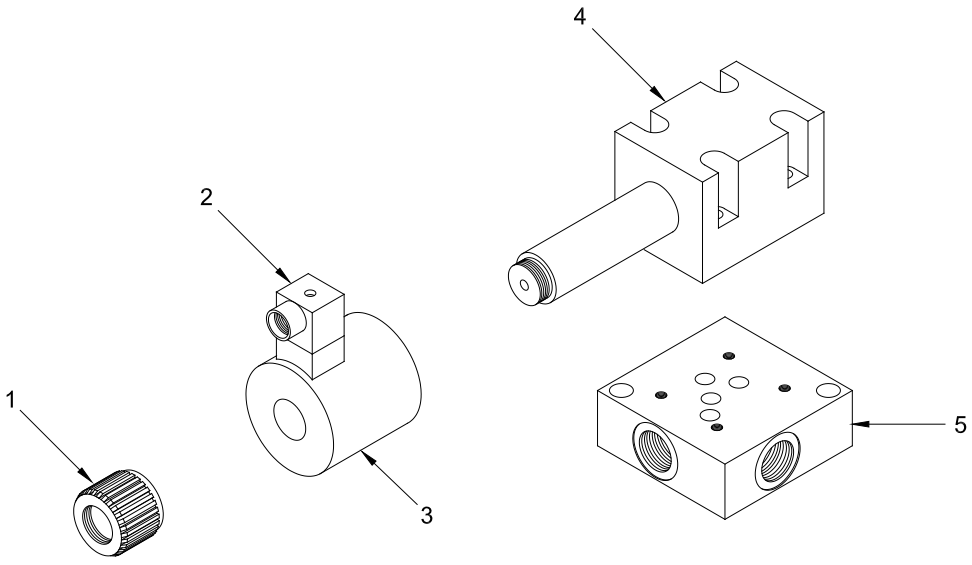
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RELIEF BLOCK



Torque Autofeed Cartridge Nut to a Maximum of 4 to 6 ft.-lbs. (5 to 8 Nm) and Install Loc-Tite 241.
Over Torque Will Cause Damage and Will Also Void Warranty.

"AUTO FEED PLUS" SYSTEM (SINGLE SOLENOID)



Torque Retainer Nut to a Maximum of 4 to 6 ft.-lbs. (5 to 8 Nm) and Install Vibra Tite.
Over Torque Will Cause Damage and Will Also Void Warranty.

NOTICE Parts may not be exactly as shown.

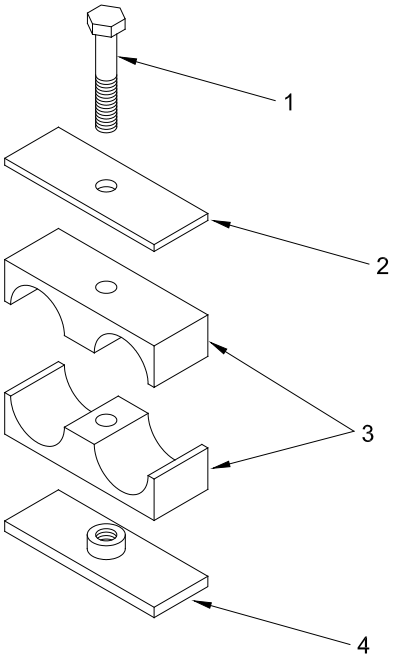
RELIEF BLOCK

LOCATION	PIPE FITTING	SAE O-RING	DESCRIPTION
1.	900-2900-82	N/A	Autofeed Block Only
2.	900-3923-43	900-3923-43	Autofeed Cartridge Only
3.	900-3923-44	900-3923-44	12 V Autofeed Solenoid Only
4 a.	900-3908-23	900-3908-23	Main Relief Only (Vickers)
b.	900-3919-96	900-3919-96	Main Relief Only (Danfoss)
5 a.	900-3907-55	900-3923-45	Autofeed Block Assembly With Relief
b.	900-3907-56	900-3923-37	Autofeed Block Assembly Without Relief
c.	900-3909-05	900-3923-48	Main Relief Block Ass'y (Used Without Autofeed)

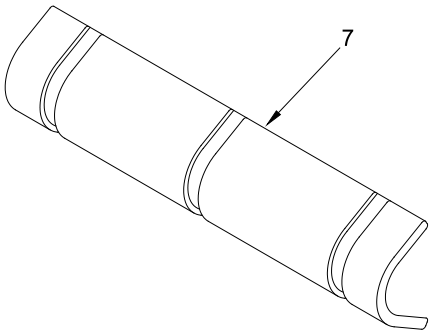
"AUTO FEED PLUS" SYSTEM (SINGLE SOLENOID)

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	N/A	900-3920-20	Retainer Nut and Sealing Ring (Danfoss)
b.	N/A	900-3915-19	Retainer Nut (Northman)
2.	900-2909-55	900-2909-55	Herschman Connector Only
3 a.	N/A	900-3920-19	Solenoid Only (Danfoss)
b.	N/A	900-3915-20	Solenoid Only (Northman)
4 a.	900-3925-40	900-3919-73	Solenoid Assembly (Danfoss Includes #'s 1,3,4, & 6)
b.	N/A	900-3918-39	Solenoid Assembly (Northman Includes #'s 1,3,4, & 6)
5 a.	N/A	900-3923-34	Autofeed Plus Relief Block Subplate (Edmore)
b.	900-3926-12	900-3918-43	Autofeed Plus Relief Block Subplate (DTS)
6 a.	N/A	4589960	Seal Kit For Danfoss Valve (Not Shown)
b.	N/A	900-3915-39	Seal Kit For Northman Valve (Not Shown)
7 a.	900-3925-89	900-3925-89	10' Cord and Molded Herschman Connector (Not Shown)
b.	900-3920-71	900-3920-71	16' Cord and Molded Herschman Connector (Not Shown)
c.	900-3918-63	900-3918-63	25' Cord and Molded Herschman Connector (Not Shown)

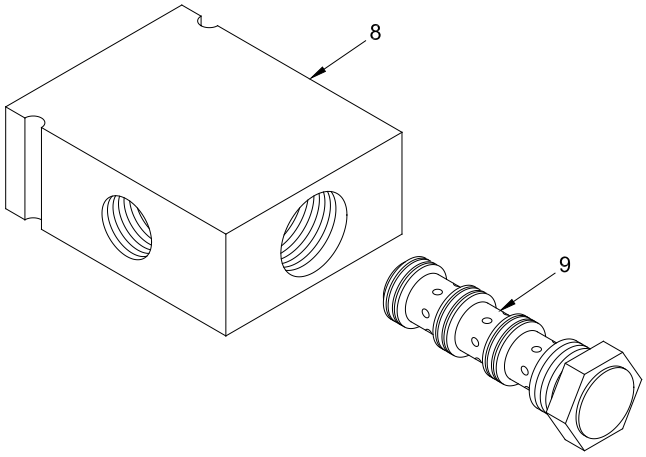
HOSE CLAMP



HOSE GUARD



FLOW DIVIDER - Model 65 With Dual Feedwheel Option (Start 4/05)



NOTICE Parts may not be exactly as shown.

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HOSE CLAMP

LOCATION	PART NUMBER	DESCRIPTION
1.	N/A	Bolt
2.	N/A	Locking Plate
3.	N/A	Plastic Clamp
4 a.	900-3914-09	Weld Plate for 1/4” Double Clamp
b.	900-3914-08	Weld Plate for 1/2” Double Clamp
c.	900-3926-47	Weld Plate for 3/4” Double Clamp
5 a.	900-3917-25	1/4” Double Clamp Assembly (Includes #’s 1-4)
b.	900-3926-44	3/8” Double Clamp Assembly (Includes #’s 1-4)
c.	900-3928-19	1/2” Single Clamp Assembly (Includes #’s 1-4)
d.	900-3914-02	1/2” Single Clamp Assembly For Steel Lines (Includes #’s 1-4)
e.	900-3915-61	1/2” Double Clamp Assembly (Includes #’s 1-4)
f.	900-3913-32	1/2” Double Clamp Assembly For Steel Lines (Includes #’s 1-4)
g.	900-3914-03	3/4” Single Clamp Assembly (Includes #’s 1-4)
h.	900-3914-07	3/4” Double Clamp Assembly (Includes #’s 1-4)
i.	900-3914-04	1” Single Clamp Assembly (Includes #’s 1-4)
j.	900-3914-05	1 1/4” Single Clamp Assembly (Includes #’s 1-4)
k.	900-3914-06	1 1/2” Single Clamp Assembly (Includes #’s 1-4)
6 a.	900-3914-10	Stacking Bolt for 1/2” Double Clamp (Not Shown)
b.	900-3920-11	Stacking Bolt for 3/4” Double Clamp (Not Shown)

HOSE GUARD

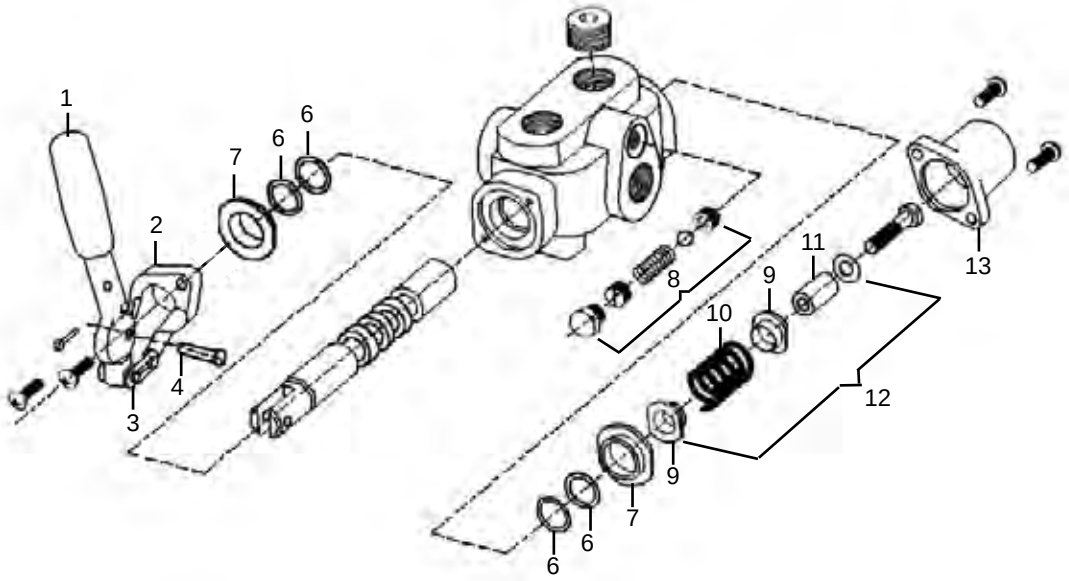
LOCATION	PART NUMBER	DESCRIPTION
7 a.	900-3934-76	Hose Guard - 4” Long
b.	900-3934-77	Hose Guard - 6” Long
c.	900-3934-78	Hose Guard - 8” Long

FLOW DIVIDER - Model 65 With Dual Feedwheel Option (Start 4/05)

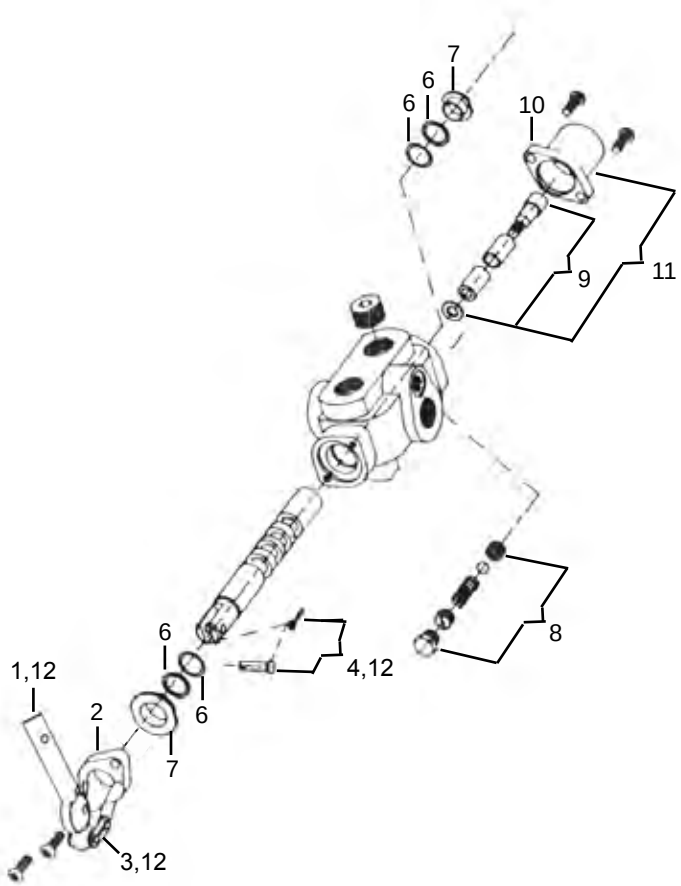
LOCATION	PIPE FITTING	SAE O-RING	DESCRIPTION
8.	N/A	900-3923-35	Flow Divider Body With Cartridge
9.	N/A	900-3923-36	Flow Divider Cartridge Only

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TYPICAL SPRING LOADED CONTROL VALVE



TYPICAL FEEDWHEEL CONTROL VALVES



NOTICE Parts may not be exactly as shown.

TYPICAL SPRING LOADED CONTROL VALVE COMPONENTS

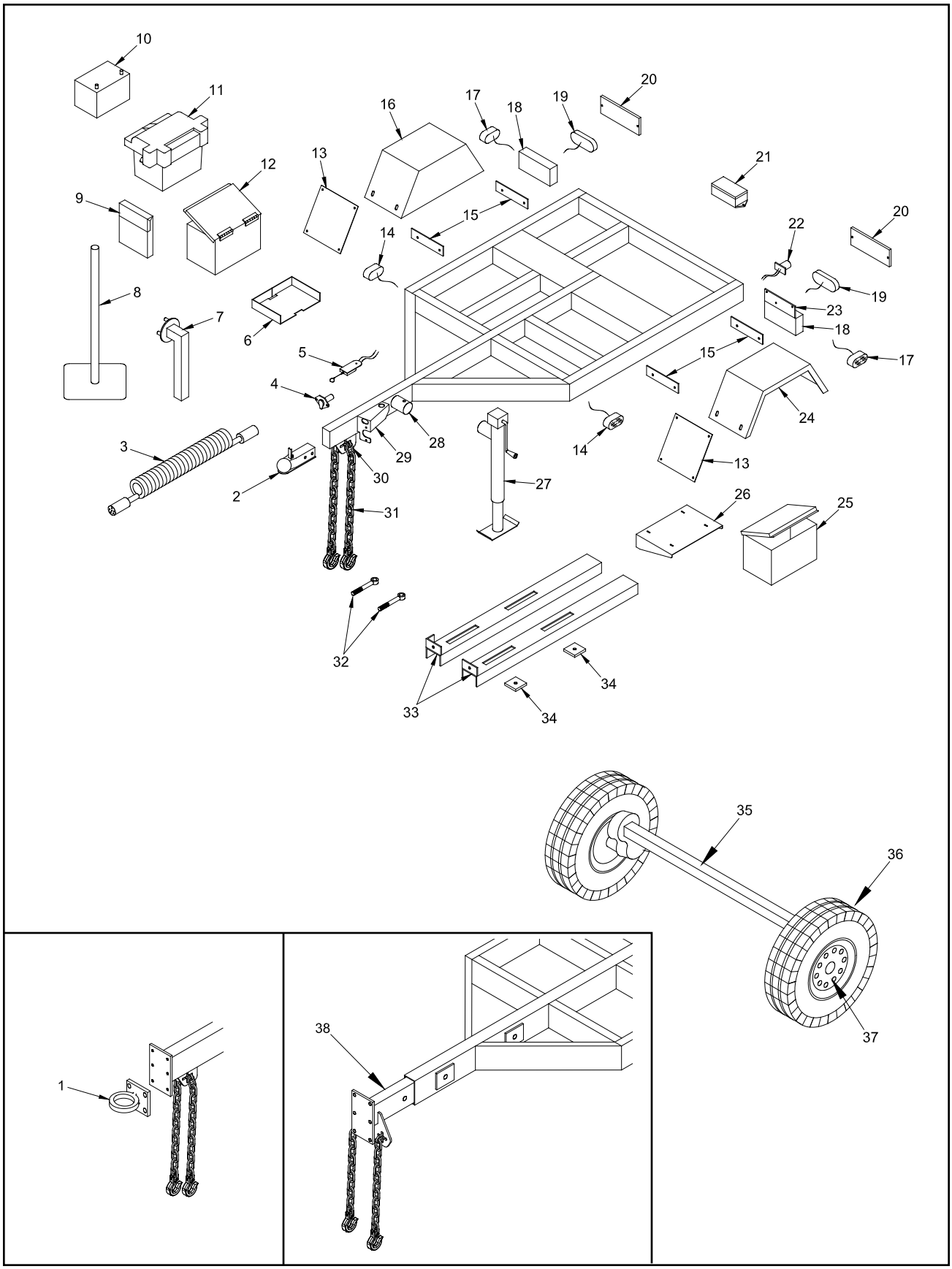
LOCATION	PART NUMBER	DESCRIPTION
1.	904-0003-29	Handle Only (Long)
2.	900-3905-95	Valve Bracket Only With Screws
3.	904-0003-30	Master Link Only Control Valve
4.	904-0003-31	Pin And Cotter Key For Control Valve
5.	904-0003-32	Bracket, Handle And Chain Link
	NOTE: INCLUDES #'s 1, 2, 3, 4	
6.	900-3937-34	Seal Kit For Control Valve
7.	904-0003-33	Seal Retainer For Control Valve
	NOTE: NOT INCLUDED IN SEAL KIT	
8.	900-3901-12	Relief Valve Kit - Spring, Ball, Screw
	NOTE: SOLD ONLY AS A KIT	
9.	904-0003-34	Valve Spool Stop For Spring Loaded Valve
10.	904-0003-35	Valve Spool Spring
11.	904-0003-36	Valve Spacer For Yoke Lift Valve
12.	900-A-2941	Spring Center Kit For Spring Loaded Valve
13.	904-0003-37	Detent Cap Only For Spring Loaded Valve (Short)

TYPICAL FEEDWHEEL CONTROL VALVE COMPONENTS

LOCATION	PART NUMBER	DESCRIPTION
1.	900-3905-95H	Handle Only (Short)
2.	900-3905-95	Valve Bracket Only With Screws
3.	904-0003-30	Master Link Only Control Valve
4.	904-0003-31	Pin And Cotter Key For Control Valve
5.	904-0003-32	Bracket, Handle And Chain Link
	NOTE: INCLUDES #'s 1, 2, 3, 4	
6.	900-3937-34	Seal Kit For Control Valve
7.	904-0003-33	Seal Retainer For Control Valve
	NOTE: NOT INCLUDED IN SEAL KIT	
8.	900-3901-12	Relief Valve Kit - Spring, Ball, Screw
	NOTE: SOLD ONLY AS A KIT	
9.	900-3900-71	Detent Kit For Feedwheel Control Valve
	NOTE: SOLD ONLY AS A KIT	
10.	900-390071C	Detent Cap Only With Screws (Long)
11.	900-3900-71E	Detent Kit With Cap And Screws
	NOTE: INCLUDES #'s 9 & 10	
12.	900-3905-59	Handle, Pin, and Link
	NOTE: INCLUDES #'s 1, 3, & 4	

CONTROL VALVES

LOCATION	PIPE FITTING	SAE O-RING	DESCRIPTION
1.	N/A	900-3927-73	Yoke Lift Control Valve for Dual Control Yoke Lift
2.	900-3901-24	900-3920-02	Yoke Lift Control Valve Without Winch Option
3.	900-3908-62	900-3920-09	Yoke Lift Control Valve With Winch Option
4.	900-3901-42	900-3920-01	Winch, Hyd. Swivel Discharge, and Articulating Tongue
5.	900-3909-89	900-3920-06A	Feedwheel Control Valve With Relief
6.	900-3914-47	900-3920-05A	Feedwheel Control Valve With Out Relief



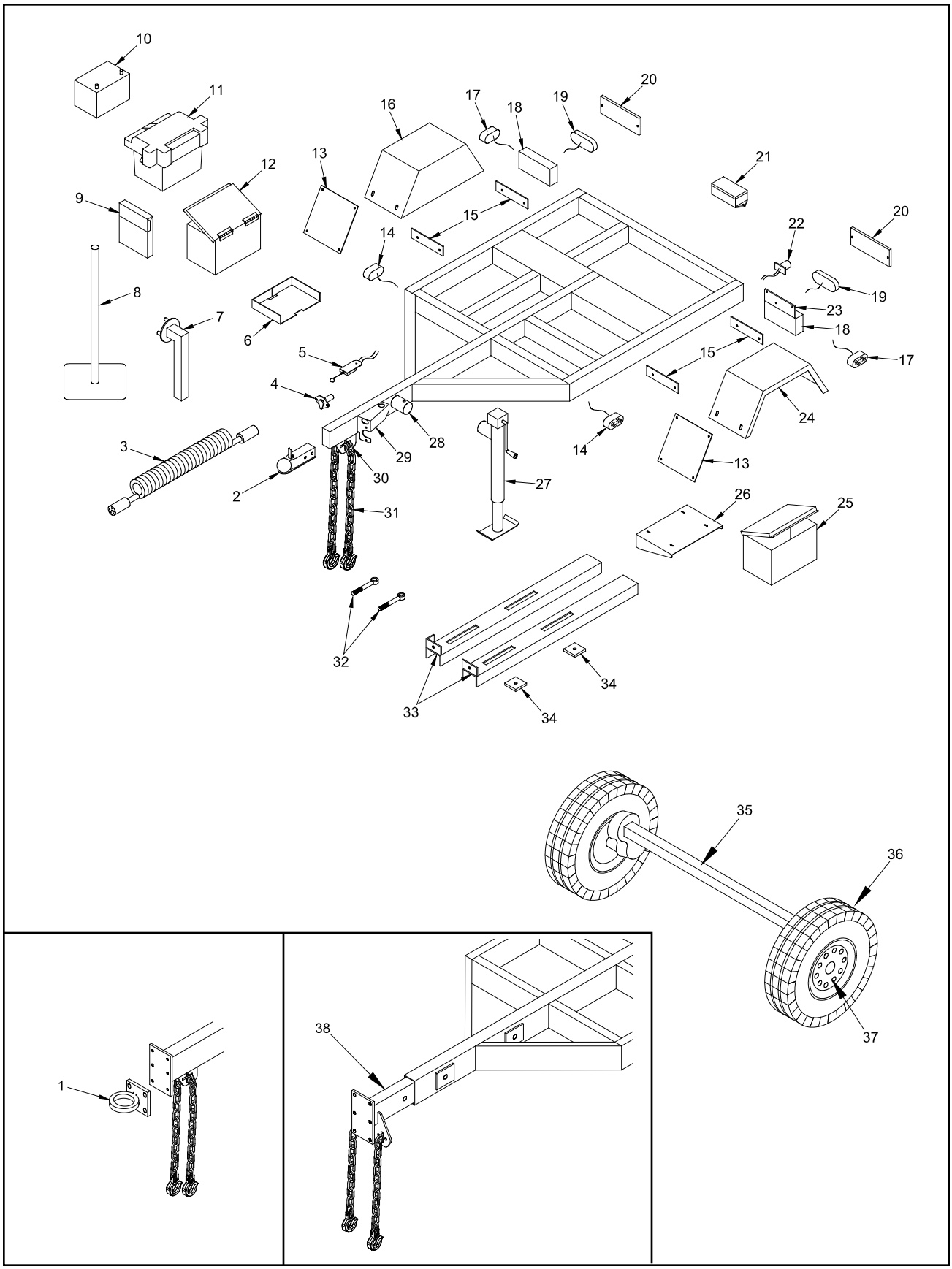
NOTICE Parts may not be exactly as shown.

Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	900-5900-13	900-5900-13	2 1/2” Heavy Duty Pintle Ring Hitch
b.	900-5905-73	900-5905-73	3” Heavy Duty Pintle Ring Hitch
c.	980-0505-33	980-0505-33	2 5/16” Ball Coupler Assembly (Not Shown)
d.	980-0501-47	980-0501-47	2” Ball Coupler Assembly (Not Shown)
e.	*--*	*--*	Other Hitch Options Available (Not Shown)
2 a.	900-5904-67	N/A	2” Ball Bolt-On Hitch Single Position (Bolts directly on tongue)
b.	900-5901-45	N/A	2” Ball Coupler (Croft - Optional) (Not Shown)
c.	900-5901-46	N/A	2 1/2” Pintle Ring (Croft - Optional) (Not Shown)
3 a.	900-2916-63	900-2916-63	Coil Cable Assembly With 6 Prong Plugs - 15’
b.	900-2904-12	900-2904-12	6-Prong Trailer Plug Male Plug Only
4.	900-2904-13	900-2904-13	6-Prong Trailer Plug Female Plug Only
5.	900-5900-09	900-5900-09	Electrical Breakaway Switch
6.	626-0001-70	980-200205	Battery Box Tray
7.	980-0510-51	980-0510-51	Optional Spare Tire Mount
8 a.	980-200202	980-200202	Optional Cone Holder (Replaces 980-0508-30)
b.	980-200215	980-200215	Optional Bolt-On Cone Holder (Not Shown)
c.	980-200107	980-200107	Optional Hoop Style Cone Holder (Not Shown)
d.	900-7900-86	900-7900-86	Cap For Cone Holder (Not Shown)
9.	900-9902-72	900-9902-07	Manual Holder
10 a.	900-6900-01	900-6900-01	460 CCA Battery
b.	900-6900-02	900-6900-02	660 CCA Battery
c.	900-6911-62	900-6911-62	1010 CCA Battery
11 a.	900-7900-01	900-7900-01	Plastic Battery Liner Box for 460 CCA Battery
b.	900-7900-08	900-7900-08	Plastic Battery Liner Box for 660/1010 CCA Battery
12 a.	N/A	980-0509-89	Steel Battery Box For 460 CCA Battery And Manual Holder
b.	N/A	980-0509-37	Steel Battery Box For 660/1010 CCA Battery And Manual Holder
c.	N/A	900-7900-78B	Aluminum Battery Box For 460 CCA Battery And Manual Holder
d.	N/A	900-7900-78B	Aluminum Battery Box For 66/1010 CCA Battery And Manual Holder
13.	N/A	980-0128-91	Optional Stone Guard
14.	900-2915-97	900-2915-97	LED Amber Marker Light
15.	626-300273	980-0128-14	Aluminum Fender Mount
16 a.	626-200044	980-0509-24	Right Hand Steel Weld-On Fender - 12”
b.	N/A	980-0506-81	Right Hand H.D. Steel Weld-On Fender - 12”
c.	626-200046	N/A	Right Hand H.D. Aluminum Fender For 20.5” x 8” x 10” Tire
d.	986-0502-11	N/A	Right Hand H.D. Aluminum Fender For 185/75R-14” Tire
e.	N/A	900-5904-43	Right Hand Aluminum Fender
f.	N/A	981-2001-08	Right Hand H.D. Aluminum Fender
g.	N/A	980-0506-81	Right Hand H.D. Steel Weld-On Fender
h.	N/A	980-0506-82	Right Hand H.D. Steel Bolt-On Fender
i.	N/A	980-0509-24	Right Hand Steel Weld-On Fender - 12”

**** Order Brake Hub And Drum Assembly According To Axle Type.**
(Grease Type, Oil Type, Never Lube Type).
***-* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.**
Order By Serial Number Of Chipper Or Physical Description.
NOTICE Other Fenders And Fender Stone Shields Are Optional.

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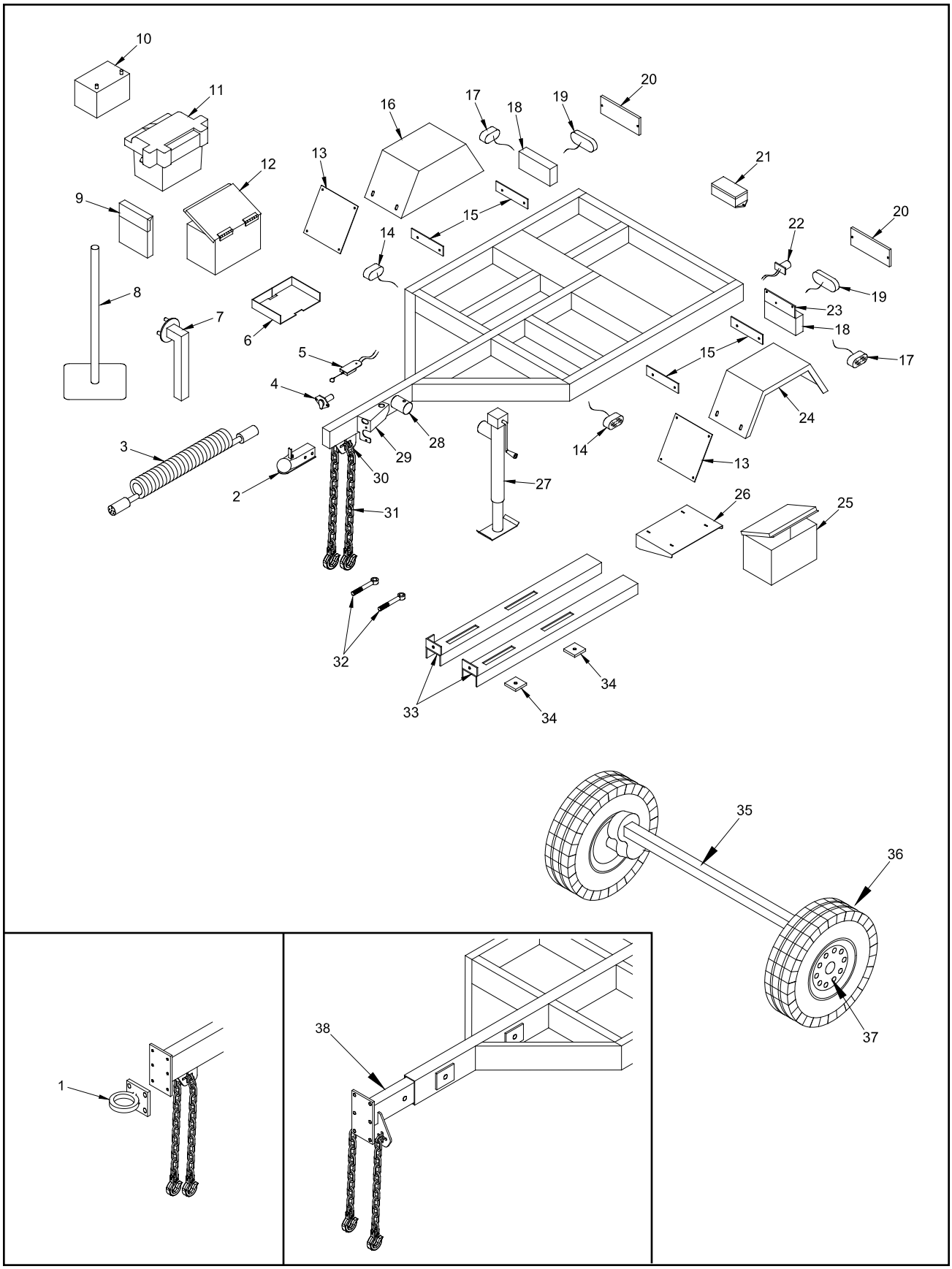
NOTICE Parts may not be exactly as shown.

Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
17.	900-2915-98	900-2915-98	LED Red Marker Light
18 a.	626-200032	See Pages 88-89	Tail Light Mount - Curb Side
b.	626-200031	See Pages 88-89	Tail Light Mount - Road Side
19.	900-2910-43	See Pages 88-89	LED Tail Light
20.	901-300007	See Pages 88-89	Heavy Duty Tail Light Cover
21.	900-2902-41	900-2902-41	Junction Box for Wiring
22.	900-2900-07	900-2900-07	License Plate Light
23.	980-0126-29	See Pages 88-89	License Plate & Light Mount
24 a.	626-200045	980-0509-23	Left Hand Steel Weld-On Fender
b.	N/A	980-0506-83	Left Hand H.D. Steel Weld-On Fender
c.	626-200047	N/A	Left Hand H.D. Aluminum Fender For 20.5” x 8” x 10” Tire
d.	986-0502-11	N/A	Left Hand H.D. Aluminum Fender For 185/75R-14” Tire
e.	N/A	900-5904-43	Left Hand Aluminum Fender
f.	N/A	981-2001-08	Left Hand H.D. Aluminum Fender
g.	N/A	980-0506-83	Left Hand H.D. Steel Weld-On Fender
h.	N/A	955-0506-84	Left Hand H.D. Steel Bolt-On Fender
i.	N/A	980-0509-22	Left Hand Steel Weld-On Fender - 12”
25 a.	N/A	900-7900-78	Aluminum Tool Box (Optional)
b.	N/A	980-0508-37	Steel Tool Box (Optional)
26.	N/A	980-200204	Tool / Battery Box Tray
27 a.	900-5906-10	900-5906-10	2,000 Lbs. Side Crank Jack - Zinc (Replaces 900-5903-79)
b.	900-5908-48	900-5908-48	1,000 Lbs. Poly Wheel Jack - Square Mount (Replaces 900-5908-16)
c.	900-5902-42	900-5902-42	1,000 Lbs. Steel Castor Wheel Jack - Round Mount
d.	980-0505-34	980-0505-34	1,000 Lbs. Rubber Castor Wheel Jack - Round Mount
e.	N/A	900-5908-44	5,000 Lbs. Side Crank Jack-Zinc-Square Mnt (Replaces 900-5903-86)
f.	N/A	900-5906-11	5,000 Lbs. Top Crank Jack-Zinc-Square Mnt (Replaces 900-5905-70)
g.	N/A	980-1002-11	5,000 Lbs. Jack With HD Castor Wheel - Zinc - Square Mount
h.	N/A	900-5908-78	8,000 Lbs. Drop Leg Jack - Zinc (Replaces 900-5903-78)
i.	N/A	980-1002-12	8,000 Lbs. Jack With HD Castor Wheel - Zinc
28 a.	910-1001-29	910-1001-29	Pivot Mount For 2,000 Lbs. Jack - Round Mount
b.	900-5905-71	900-5905-71	Pivot Mount For 1,000 Lbs. Castor Wheel Jack - Square Mount
c.	910-1001-29	910-1001-29	Pivot Mount For 1,000 Lbs. Castor Wheel Jack - Round Mount
d.	N/A	900-5905-71	Pivot Mount For 5,000 Lbs. Jack - Square Mount
e.	N/A	980-0127-45	Mount For 8,000 Lbs. Drop Leg Jack
f.	N/A	980-0127-44	Pin For 8,000 Lbs. Drop Leg Jack
29.	980-300106	980-300106	Trailer Plug Receptacle Mount
30.	922-0003-87	980-0121-31	Safety Chain Holder
31 a.	900-4912-36	900-4912-70	Safety Chain With Hooks and Spring Latches for Standard Tongue
b.	N/A	900-4908-01	Safety Chain With Hooks and Spring Latches for Telescopic Tongue
c.	900-4913-11	900-4913-12	Hook For Safety Chain
32 a.	900-4902-73	900-4902-73	Engine Adjuster Rod End - 1/2”-13NC x 5 1/2”
b.	N/A	900-4902-29	Engine Adjuster Rod End - 1/2”-13NC x 6”
c.	N/A	900-4902-28	Engine Adjuster Rod End - 1/2”-13NC x 8 1/2”
d.	N/A	900-4905-11	Engine Adjuster Rod End - 5/8”-11NC x 6”

**** Order Brake Hub And Drum Assembly According To Axle Type.**
(Grease Type, Oil Type, Never Lube Type).
***-* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.**
Order By Serial Number Of Chipper Or Physical Description.
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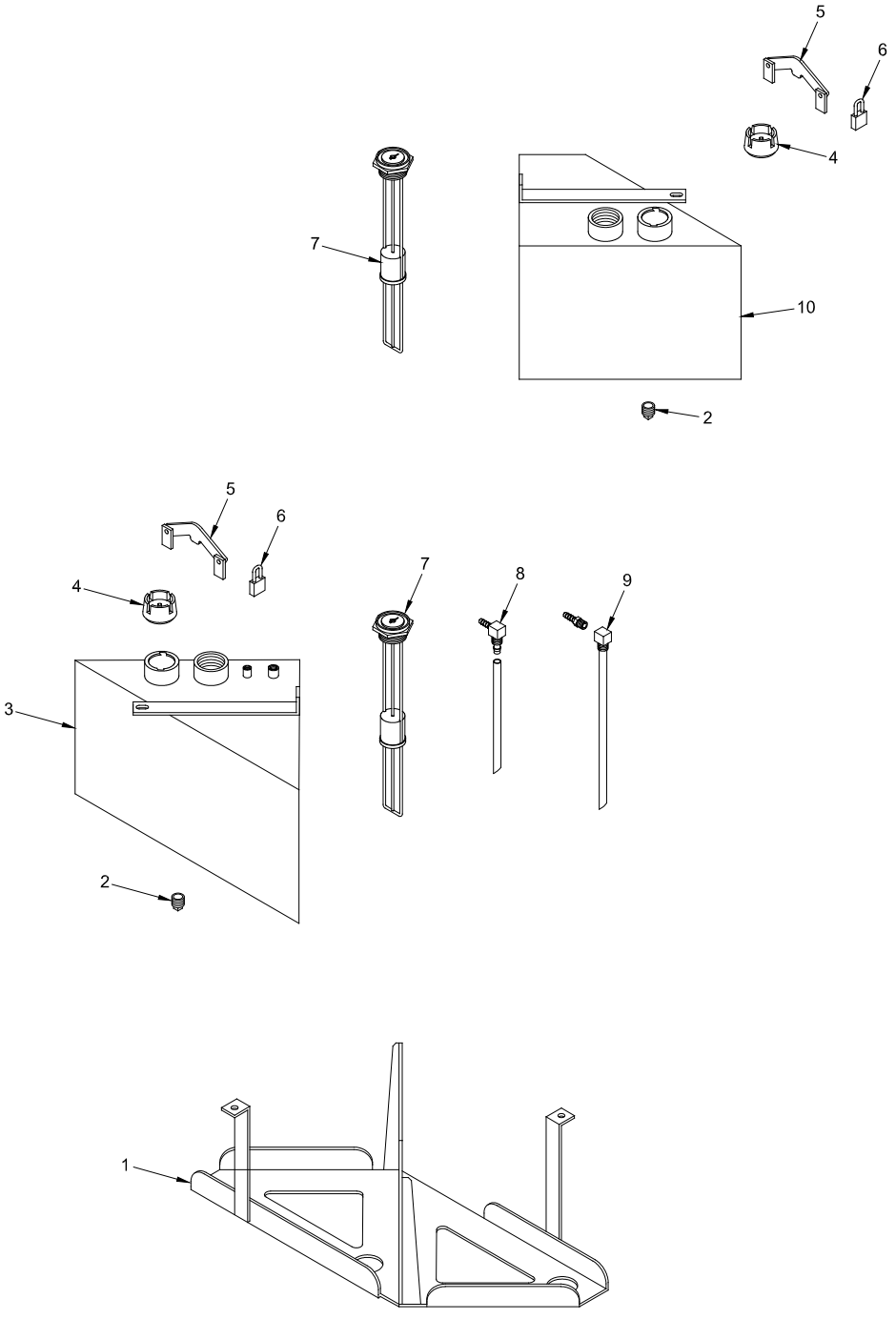
NOTICE Parts may not be exactly as shown.

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
33 a.	*-*	*-*	Engine Rails / Engine Slide Mount
b.	626-100050	N/A	Engine Oil Drain Hose Kit- Honda, Briggs & Stratton (Not Shown)
c.	626-100048	N/A	Engine Oil Drain Hose Kit - Kohler (Not Shown)
34 a.	922-0003-38	922-0003-38	Engine Mount Pad For 1/2” Engine Hold Down
b.	N/A	980-0101-33	Engine Mount Pad For 5/8” Engine Hold Down
35 a.	900-5905-83	N/A	2,200 Lb. Torflex Axle Assembly (No Brake)
b.	900-5905-82	N/A	2,200 Lb. Torflex Axle Assembly (Electric Brake)
c.	900-5905-85	N/A	3,500 Lb. Torflex Axle Assembly (No Brake)
d.	900-5905-84	N/A	3,500 Lb. Torflex Axle Assembly (Electric Brake)
e.	900-5908-55	N/A	3,500 Lb. Torflex Axle Assembly (Electric Brake & Parking Brake)
f.	N/A	900-5902-54	7,000 Lb. Torflex Axle Assembly (No Brake)
g.	N/A	900-5905-60	7,000 Lb. Torflex Axle Assembly (Electric Brake)
h.	N/A	900-5905-61	7,000 Lb. Torflex Axle Assembly (Hydraulic Brake)
36 a.	900-5905-90	N/A	20.5” x 8” x 10” Tire And White, 5-Bolt Rim
b.	900-5905-88	N/A	20.5” x 8” x 10” Tire Only
c.	900-5905-89	N/A	10” White, 5-Bolt Rim Only
d.	900-5901-69	N/A	185/75R-14” Tire And Black, 5-Bolt Rim
e.	900-5903-08	N/A	185/75R-14” Tire Only
f.	900-5901-60	N/A	14” Black, 5-Bolt Rim Only
g.	N/A	900-5904-20	245/75R-16” Tire and White Spoke, 8-Bolt Rim
h.	N/A	900-5904-40	245/75R-16” Tire and Black, 8-Bolt Rim
i.	N/A	900-5904-18	245/75R-16” Tire Only
j.	N/A	900-5904-22	16” x 6” White Spoke, 8-Bolt Rim Only
k.	N/A	900-5904-19	16” x 6” Black, 8-Bolt Rim Only
37.	**	**	Brake Hub and Drum Assembly
38 a.	N/A	980-0508-43	Telescopic Tongue Ass’y - 6” Frame (Start 3/09) - 10” Increment
b.	N/A	986-200026	Telescopic Tongue Ass’y - 6” Frame (3/03 - 3/09) - 10” Increment
c.	N/A	995-0500-40	Telescopic Tongue Ass’y - 4” Frame (Pre 3/03) - 10” Increment
39 a.	980-0508-25	980-0508-25	Optional Wheel Chock Holders Aluminum Bolt-On (Not Shown)
b.	980-0508-26	980-0508-26	Optional Wheel Chock Holders Metal Weld-On (Not Shown)
40.	900-5902-32	900-5902-32	Optional Rubber Wheel Chock (Not Shown)
41.	900-5904-52	900-5904-52	Optional Safety Marker For Fenders (Not Shown)
42.	900-7900-48	900-7900-48	Optional Mud Flap (Not Shown)
43 a.	900-9904-94	900-9904-94	Optional Vice (Not Shown)
b.	980-300113	980-300113	Optional Weld-On Vice Mount (Not Shown)

**** Order Brake Hub And Drum Assembly According To Axle Type.**
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MODEL 65 TANKS & COMPONENTS



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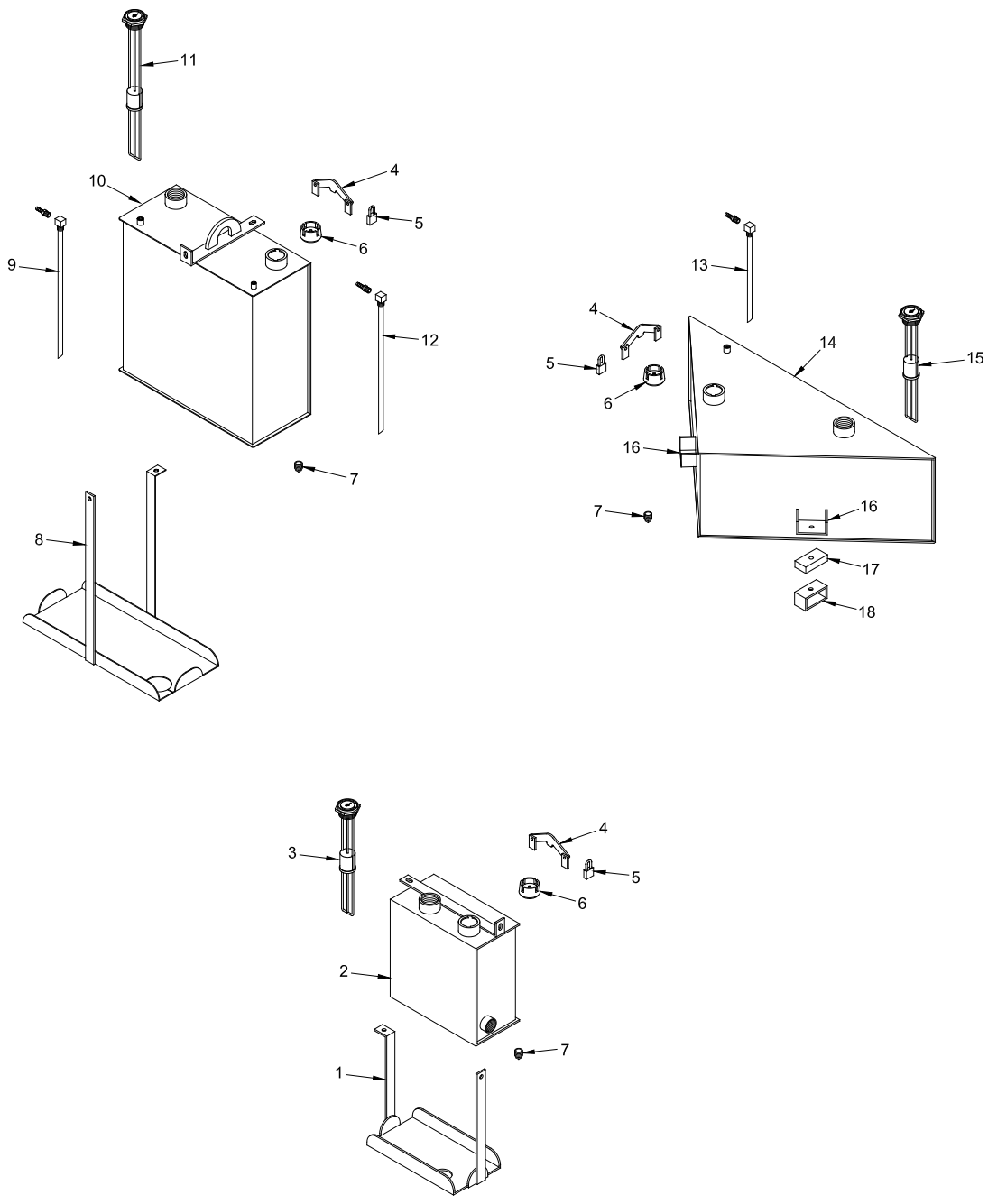
MODEL 65 TANKS & COMPONENTS

LOCATION	MODEL 65 PART NUMBER	DESCRIPTION
1 a.	626-200024	Tank Mount Tray - 8 Gallon Fuel Tank & 7 Gallon Hydraulic Tank
b.	626-200049	Tank Mount Tray - 12 Gallon Fuel Tank & 7 Gallon Hydraulic Tank
c.	900-0104-95	Rubber Tank Pad (Not Shown)
2.	900-3922-60	Magnetic Drain Plug
3 a.	626-200013	8 Gallon Fuel Tank Assembly
b.	626-200048	12 Gallon Fuel Tank Assembly
4 a.	900-3901-51	Fill Cap With Dipstick (Steel Tank)
b.	900-3917-71	Fill Cap Only No Dipstick (Steel Tank)
c.	900-3941-31	Fuel (Diesel) Locking Fill Cap - Green
d.	900-3941-30	Fuel (Gasoline) Locking Fill Cap - Black
e.	900-3941-30	Hydraulic Locking Fill Cap - Black
f.	900-3935-06	Keeper For Fuel & Hydraulic Locking Fill Cap (Not Shown)
5.	980-0506-85	Fill Cap Lock Assembly For Steel Tank
6 a.	900-4912-40	Padlock With Short Shackle For Tank With Locking Cap
b.	P812	Key For Padlock (Not Shown)
7 a.	900-2903-93	Optional Rochester Sight Gauge For 8 Gallon Fuel Tank & 7 Gallon Hydraulic Tank
b.	900-2903-94	Optional Rochester Sight Gauge For 12 Gallon Fuel Tank
c.	900-2903-55	Face For Sight Gauge Only
8 a.	900-3908-77	Return 1/4” NPTF Elbow 1/4” Hose Barb x 1/4” Hose Barb
b.	900-3936-69	Return 1/4” NPTF Elbow 3/16” Hose Barb x 1/4” Hose Barb
c.	900-3909-03	1/4” ID Drop Pipe Only
9 a.	900-3909-00	Suction Drop Pipe Ass’y Without Hose Barb (3/8” NPTF Male x 1/4” NPTF Female)
b.	900-3925-48	1/4” NPTF To 3/8” Hose Barb
c.	900-3909-01	1/4” NPTF To 5/16” Hose Barb
d.	900-3909-02	1/4” NPTF To 1/4” Hose Barb
e.	900-3943-22	3/16” NPTF To 3/16” Hose Barb
f.	900-3943-21	1/4” NPTF To 3/16” NPTF Bushing
10.	626-200018	7 Gallon Hydraulic Tank Assembly

NOTICE Components vary with fuel type.
Specify gas or diesel when ordering fuel tank components.

NOTICE Tank assemblies vary with options.
Specify all options when ordering.

MODEL 95 TANKS & COMPONENTS



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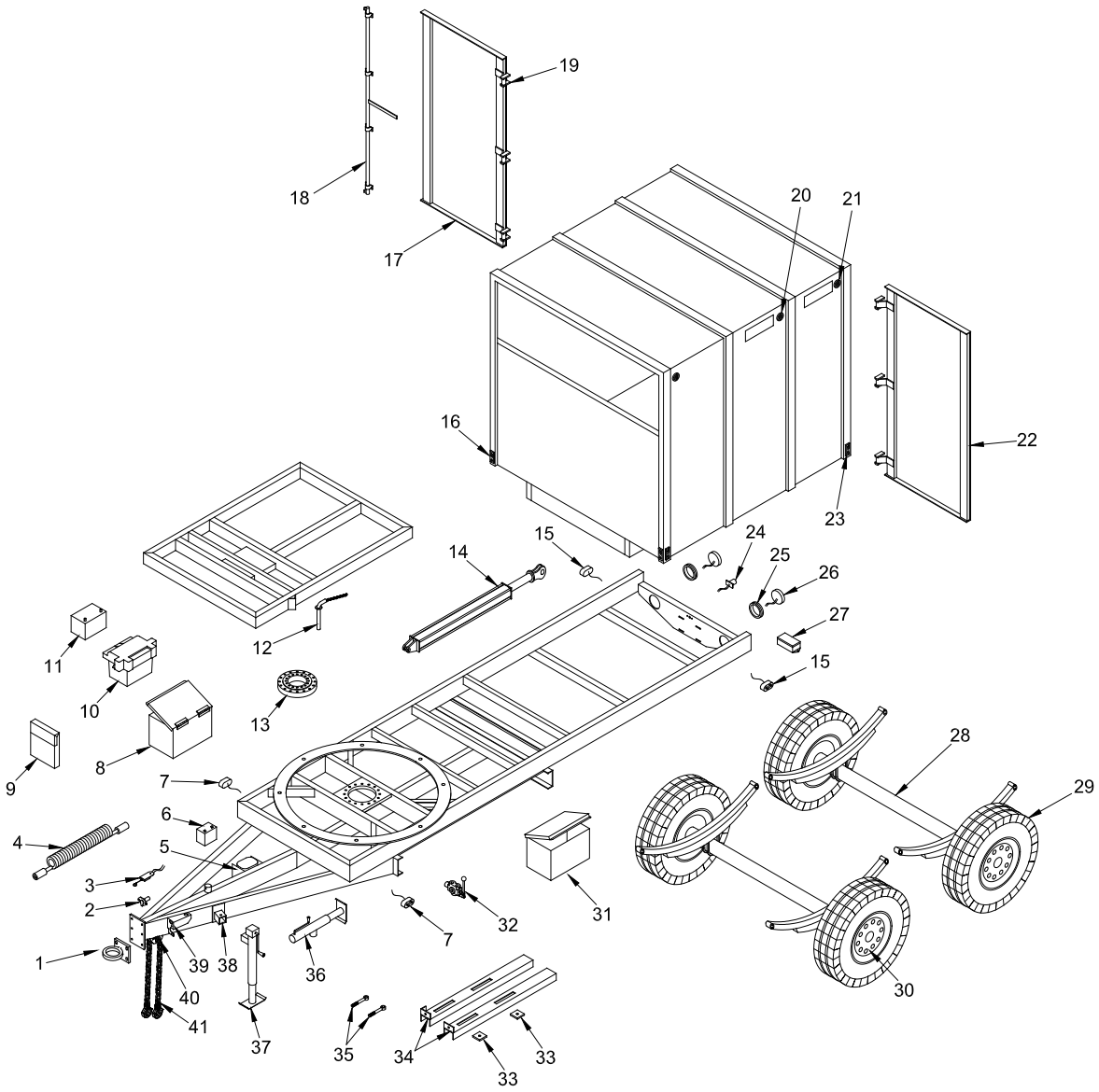
MODEL 95 TANKS & COMPONENTS

LOCATION	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	986-0502-00	7 Gallon Rectangle Hydraulic Tank Mount Tray
b.	900-0104-95	Rubber Tank Pad (Not Shown)
2.	986-0502-01	7 Gallon Rectangle Hydraulic Tank Assembly
3 a.	900-2903-93	Optional Rochester Sight Gauge For 7 Gallon Rectangle Hydraulic Tank
b.	900-2903-55	Face For Sight Gauge Only
4 a.	980-0506-85	Fill Cap Lock Assembly For Steel Tank
b.	980-0508-50	Fill Cap Lock Assembly For Plastic Tank (Not Shown)
5 a.	900-4912-40	Padlock With Short Shackle For Tank With Locking Cap
b.	P812	Key For Padlock (Not Shown)
6 a.	900-3901-51	Fill Cap With Dipstick (Steel Tank)
b.	900-3917-71	Fill Cap Only No Dipstick (Steel Tank)
c.	900-3907-67	Fill Cap For Plastic Tank
d.	900-3941-31	Fuel (Diesel) Locking Fill Cap - Green
e.	900-3941-30	Fuel (Gasoline) Locking Fill Cap - Black
f.	900-3941-30	Hydraulic Locking Fill Cap - Black
g.	900-3935-06	Keeper For Fuel & Hydraulic Locking Fill Cap (Not Shown)
7.	900-3922-60	Magnetic Drain Plug
8 a.	980-0508-41	24 1/2 Gallon Rectangle Fuel Tank Mount Tray
b.	980-0508-04	24 1/2 Gallon Rectangle Plastic Fuel Tank Mount Tray
c.	900-0104-95	Rubber Tank Pad (Not Shown)
9 a.	900-3926-84	Suction Drop Pipe Ass'y Without Hose Barb (1/2" NPTF Male x 3/8" NPTF Female)
b.	900-3926-83	3/8" NPTF To 1/2" Hose Barb
c.	900-3926-82	3/8" NPTF To 3/8" Hose Barb
d.	900-3931-53	3/8" NPTF To 5/16" Hose Barb
10 a.	980-0509-58	24 1/2 Gallon Rectangle Fuel Tank Assembly
b.	900-3908-92	24 1/2 Gallon Rectangle Plastic Fuel Tank
11 a.	900-2903-95	Optional Rochester Sight Gauge For 24 1/2 Gallon Rectangle Fuel Tank
b.	900-2903-55	Face For Sight Gauge Only
12 a.	900-3909-00	Return Drop Pipe Ass'y Without Hose Barb (3/8" NPTF Male x 1/4" NPTF Female)
b.	900-3925-48	1/4" NPTF To 3/8" Hose Barb
c.	900-3909-01	1/4" NPTF To 5/16" Hose Barb
d.	900-3909-02	1/4" NPTF To 1/4" Hose Barb
e.	900-3943-22	3/16" NPTF To 3/16" Hose Barb
f.	900-3943-21	1/4" NPTF To 3/16" NPTF Bushing
13 a.	900-3909-00	Suction Drop Pipe Ass'y Without Hose Barb (3/8" NPTF Male x 1/4" NPTF Female)
b.	900-3925-48	1/4" NPTF To 3/8" Hose Barb
c.	900-3909-01	1/4" NPTF To 5/16" Hose Barb
d.	900-3909-02	1/4" NPTF To 1/4" Hose Barb
e.	900-3943-22	3/16" NPTF To 3/16" Hose Barb
f.	900-3943-21	1/4" NPTF To 3/16" NPTF Bushing
14.	986-0501-64	24 1/2 Gallon Triangle Fuel Tank Assembly For Wisconsin Engines
15 a.	900-2903-93	Optional Rochester Sight Gauge For 24 1/2 Gallon Triangle Fuel Tank - Wisc. Eng.
b.	900-2903-55	Face For Sight Gauge Only
16.	980-0123-07	Tank Mount - Welded To Tank
17.	900-7900-14	Rubber Mounting Pad
18.	980-0134-27	Tank Mount On Frame

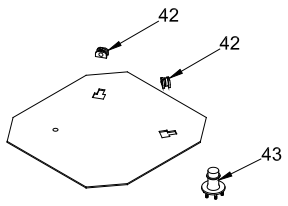
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NOTICE Tank assemblies vary with options.
Specify all options when ordering.

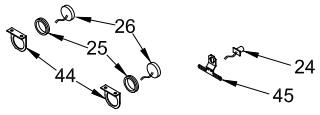
CHIP BOX



PRIOR TURNTABLE (PRE 1/07)



PRIOR LIGHT MOUNTS (PRE 1/07)



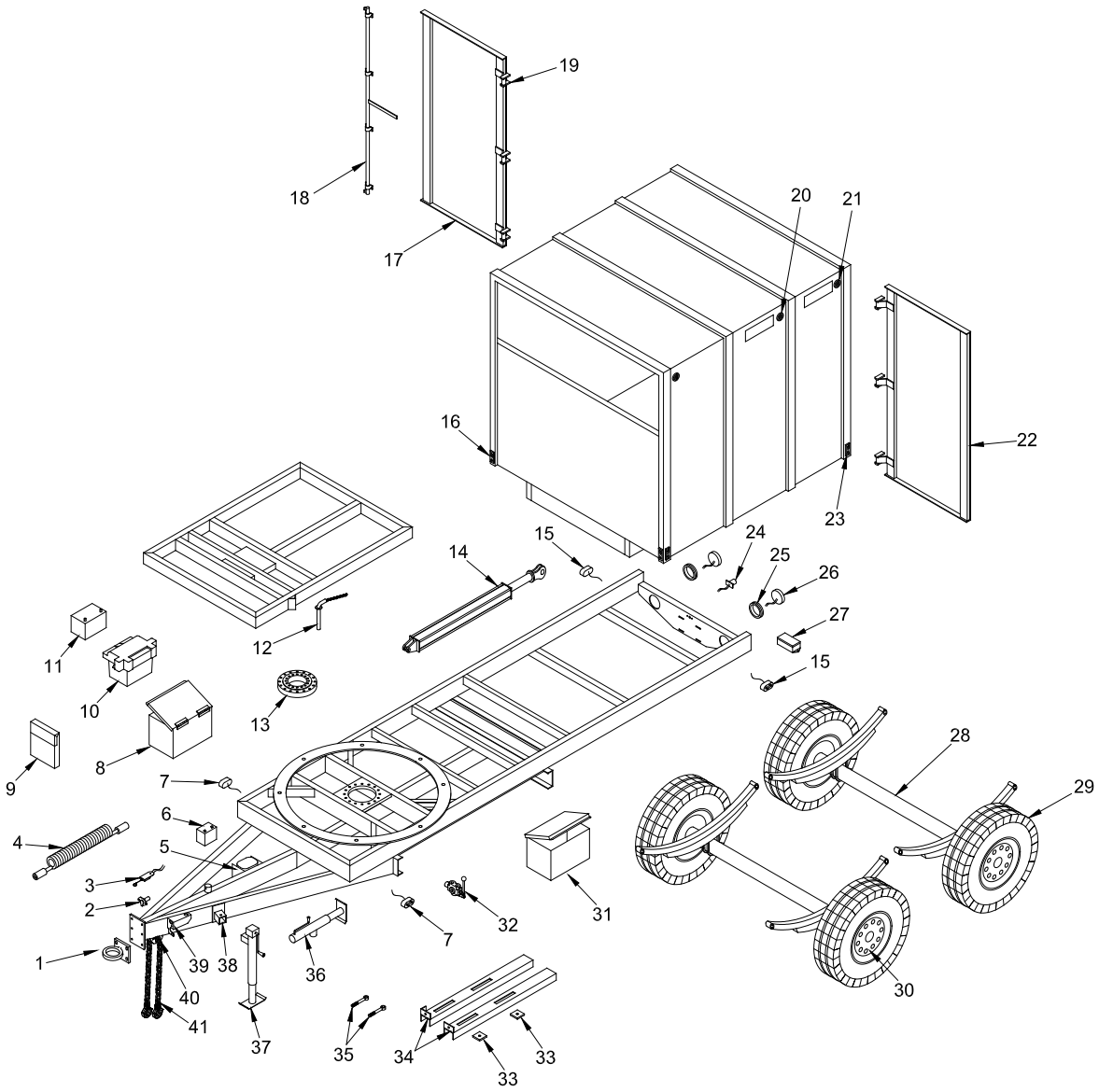
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CHIP BOX

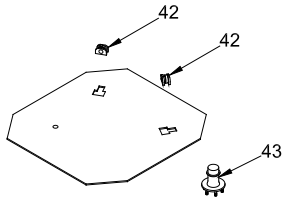
LOCATION	PART NUMBER	DESCRIPTION
1 a.	900-5900-13	2 1/2” Heavy Duty Pintle Ring Hitch
b.	900-5905-73	3” Heavy Duty Pintle Ring Hitch
2.	900-2904-13	6-Prong Trailer Plug Female Plug Only
3.	900-5900-09	Electrical Breakaway Switch
4 a.	900-2916-63	Coil Cable Assembly With 6 Prong Plugs - 15’
b.	900-2904-12	6-Prong Trailer Plug Male Plug Only
5.	900-2904-02	Mount For Electrical Breakaway Switch Battery
6.	900-2904-01	Battery For Electrical Breakaway Switch
7.	900-2915-97	LED Amber Marker Light
8.	900-9902-07	Manual Holder
9 a.	980-0509-89	Steel Battery Box For 460 CCA Battery And Manual Holder
b.	900-7900-78B	Aluminum Battery Box For 460 CCA Battery And Manual Holder
c.	900-7900-78B	Aluminum Battery Box For 660/1010 CCA Battery And Manual Holder
d.	980-0509-37	Steel Battery Box For 660/1010 CCA Battery And Manual Holder
10 a.	900-7900-01	Plastic Battery Liner Box for 460 CCA Battery
b.	900-7900-08	Plastic Battery Liner Box for 660/1010 CCA Battery
11 a.	900-6900-01	460 CCA Battery
b.	900-6900-02	660 CCA Battery
c.	900-6911-62	1010 CCA Battery
12.	955-1015-32	Lock Pin For Turntable
13.	900-1913-46	Turntable Bearing (Start 1/07)
14.	900-3906-77	Chip Box Lift Cylinder
15.	900-2915-98	LED Red Marker Light
16.	900-2900-06	Amber Rectangle Reflector
17 a.	910-200012	Curb Side Door Assembly (Start 1/07)
b.	910-0500-31	Curb Side Door Assembly (Pre 1/07)
c.	900-4914-22	Spring Latch - To Hold Door Open (Not Shown)
18 a.	900-4913-73	Door Latch Assembly (Start 1/07)
b.	910-0500-32	Door Latch Assembly (Pre 1/07) (Not Shown)
19 a.	900-4913-72	Door Hinge (Start 1/07)
b.	910-300023	Hinge On Door (Pre 1/07) (Not Shown)
c.	910-300022	Hinge On Chip Box (Pre 1/07) (Not Shown)
d.	910-300058	Pin For Hinge (Pre 1/07) (Not Shown)
20.	900-2916-35	Amber Round Reflector
21.	900-2916-36	Red Round Reflector
22 a.	910-200011	Road Side Door Assembly (Start 1/07)
b.	910-0500-30	Road Side Door Assembly (Pre 1/07)
c.	900-4914-22	Spring Latch - To Hold Door Open (Not Shown)
23.	900-2900-05	Red Rectangle Reflector
24.	900-2900-07	License Plate Light
25.	900-2908-75	Rubber Grommet For LED Taillight
26 a.	900-2908-76	LED Taillight
b.	900-2908-74	Adaptor Wire For LED Taillight (Not Shown)
27.	900-2902-41	Junction Box for Wiring

**** Order Brake Hub And Drum Assembly According To Axle Type.**
(Grease Type, Oil Type, Never Lube Type).
***-* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.**
Order By Serial Number Of Chipper Or Physical Description.

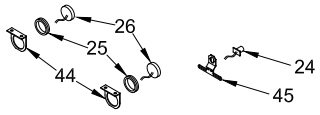
CHIP BOX



PRIOR TURNTABLE (PRE 1/07)



PRIOR LIGHT MOUNTS (PRE 1/07)

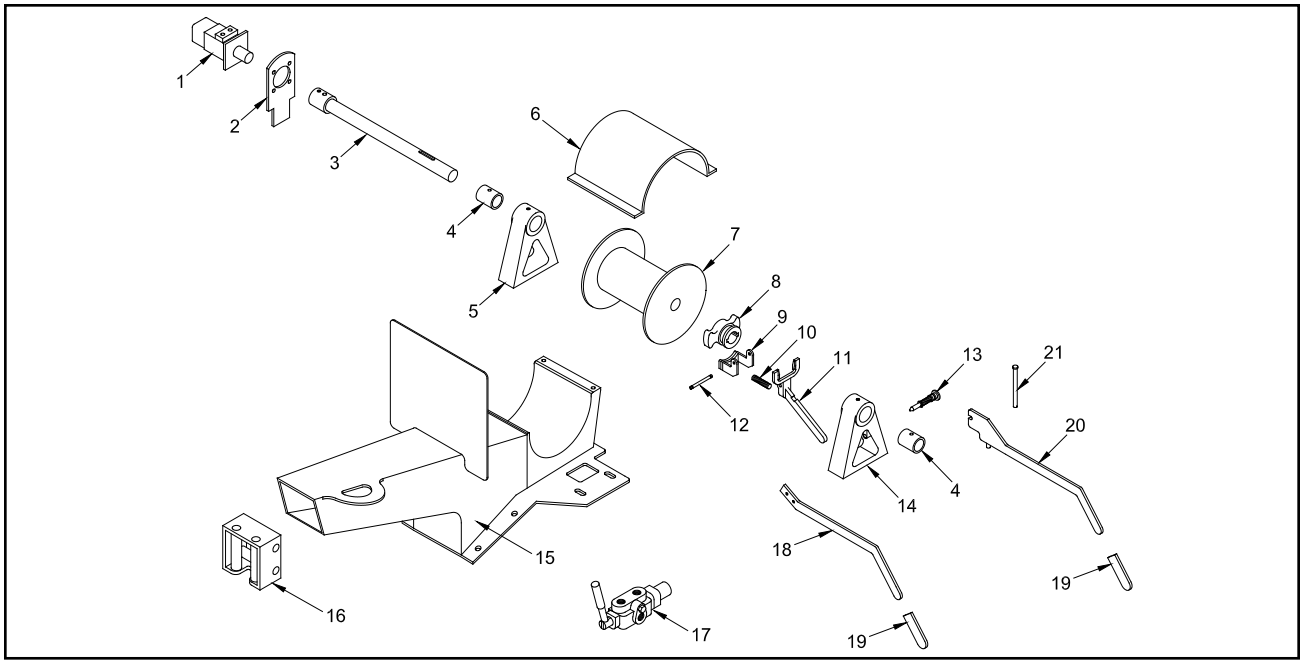


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CHIP BOX

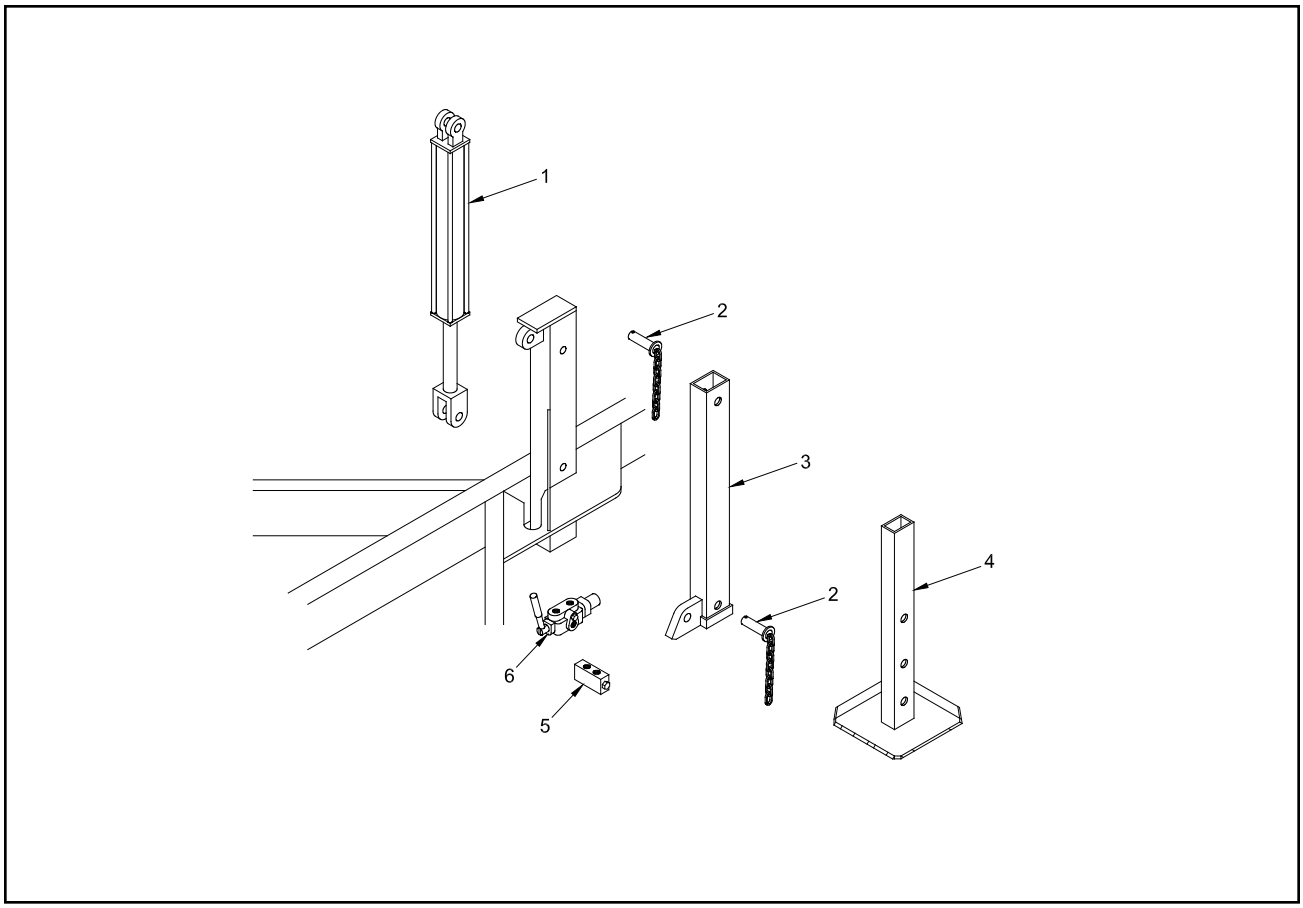
LOCATION	PART NUMBER	DESCRIPTION
28 a.	900-5905-36	7,000 Lb. Electric Brake Axle Assembly
b.	900-5904-54	7,000 Lb. Hydraulic Brake Axle Assembly
c.	900-5903-02	Hanger Kit
d.	900-5902-97	Attaching Parts Kit
29 a.	900-5904-20	245/75R-16” Tire and White Spoke, 8-Bolt Rim
b.	900-5904-40	245/75R-16” Tire and Black, 8-Bolt Rim
c.	900-5904-18	245/75R-16” Tire Only
d.	900-5904-22	16” x 6” White Spoke, 8-Bolt Rim Only
e.	900-5904-19	16” x 6” Black, 8-Bolt Rim Only
30.	**	Brake Hub and Drum Assembly
31 a.	900-7900-78	Aluminum Tool Box
b.	980-0508-37	Steel Tool Box
32 a.	900-3920-01	Chip Box Lift Control Valve - SAE O-Ring
b.	900-3901-42	Chip Box Lift Control Valve - Pipe Fitting
33 a.	922-0003-38	Engine Mount Pad For 1/2” Engine Hold Down
b.	980-0101-33	Engine Mount Pad For 5/8” Engine Hold Down
34.	*-*	Engine Rails
35 a.	900-4902-29	Engine Adjuster Rod End - 1/2”-13NC x 6”
b.	900-4902-28	Engine Adjuster Rod End - 1/2”-13NC x 8 1/2”
c.	900-4902-73	Engine Adjuster Rod End - 1/2”-13NC x 5 1/2”
36.	900-5906-10	2,000 Lbs. Yoke Lift Jack (Side Crank) - Zinc (Replaces 900-5903-79)
37.	900-5903-78	8,000 Lbs. Drop Leg Jack
38 a.	980-0127-45	Mount For 8,000 Lbs. Drop Leg Jack
b.	980-0127-44	Pin For 8,000 Lbs. Drop Leg Jack
39.	980-300106	Trailer Plug Receptacle Mount
40.	980-0121-31	Safety Chain Holder
41 a.	900-4912-71	Safety Chain With Hooks and Spring Latches for Standard Tongue
b.	900-4905-77	Hook For Safety Chain
42.	900-1903-01	Turntable Roller Bearing (Pre 1/07)
43.	900-5904-15	Turntable Spindle And Hub Assembly (Pre 1/07)
44.	900-2900-21	Tail Light Mount (Pre 1/07)
45.	900-9904-48	License Plate And Light Mount (Pre 1/07)

**** Order Brake Hub And Drum Assembly According To Axle Type.**
(Grease Type, Oil Type, Never Lube Type).
***-* Engine Rails And Adjusters Will Vary Depending On Engine And Component Options.**
Order By Serial Number Of Chipper Or Physical Description.



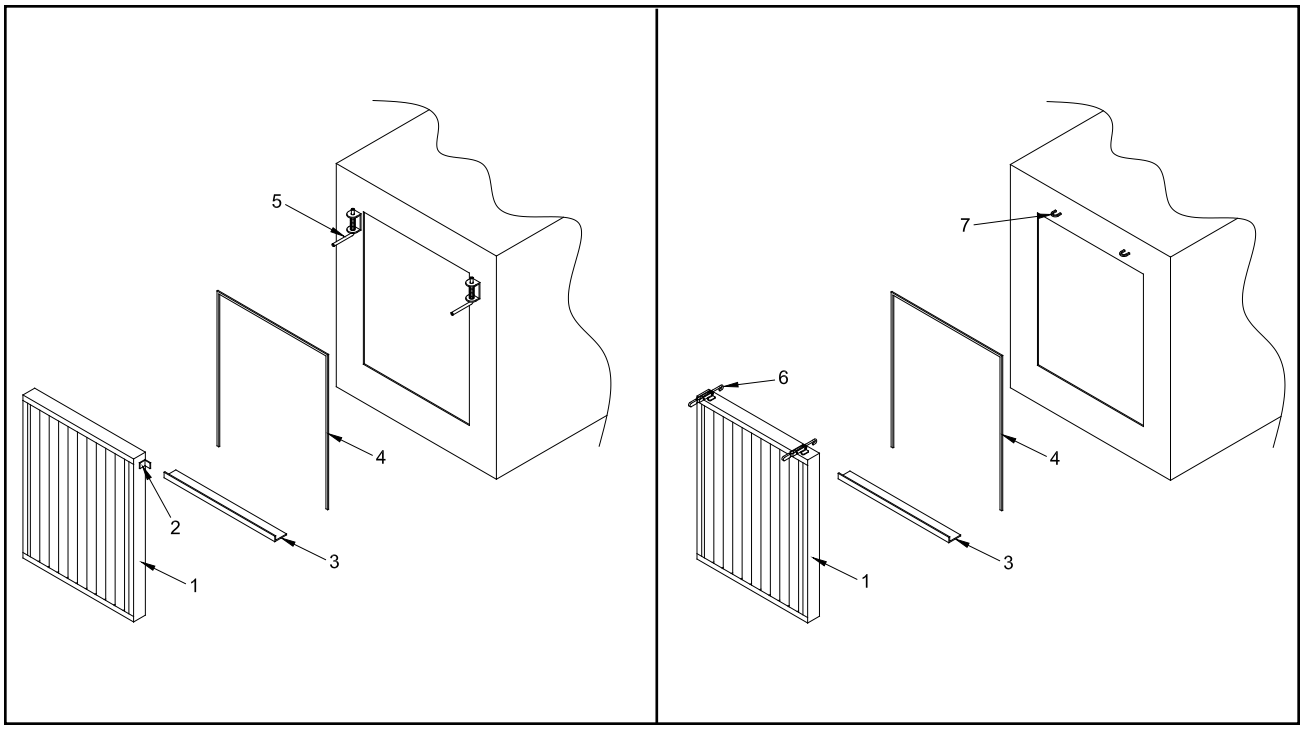
LOCATION		PART NUMBER	DESCRIPTION
1	a.	900-3921-57	Winch Hydraulic Motor (SAE O-rings) “RS” - Square
	b.	900-3902-14	Winch Hydraulic Motor (Pipe Fittings) “RS” - Square
	c.	900-3924-39	Winch Hydraulic Motor (SAE O-rings) “RE” - Round
2	a.	981-1001-01	Winch Motor Torque Arm For “RS” Motor
	b.	955-1011-71	Winch Motor Torque Arm For “RE” Motor
3	a.	43626	Winch Shaft Only
	b.	900-3905-22	Winch Shaft With Keys
4.		40003	Winch Bushing For A Frame
5.		900-3905-21	Winch A Frame Arm (Also Includes # 4) (Models 90-250, 1090-1590)
6.		980-300260	Winch Drum Cover
7	a.	900-3905-19	Winch Drum (Includes Bushings)
	b.	40005	Bushing Only For Winch Drum (Not Shown)
8.		900-3905-17	Winch Clutch
9.		40473	Winch Brake Shoe Only
10.		40024	Winch Spring
11	a.	40469	Winch Shift Lever Only
	b.	900-3905-16	Winch Shift Lever With #’s 9 & 10
12	a.	40025	Winch Pin For Brake Assembly
	b.	41669	Winch Snap Ring For Winch Pin
13.		900-3905-14	Winch Release Lever Pin Assembly
14.		900-3905-18	Winch A Frame Arm (Includes #’s 4, 9 - 13) (Models 90-250, 1090-1590)
15.		980-200162	Winch Tunnel Assembly (Models 90-280, 1090-1890)
16	a.	980-0505-82	Winch Roller Assembly
	b.	914-1004-18	Winch Roller Only
	c.	900-4902-27	Winch Roller Bolt Only
17	a.	900-3920-01	Winch Valve (SAE O-rings)
	b.	900-3901-42	Winch Valve (Pipe Fittings)
18.		955-300376	Winch Shift Lever Extension (If Applicable)
19.		900-9904-59	Vinyl Cap For Handle Extension (If Applicable)
20.		955-300377	Lock Pin Handle Extension (If Applicable)
21.		900-4913-00	Pivot Pin For Winch Handle Extension (If Applicable)
22.		904-0002-60	Winch Kit (Includes #’s 1 - 17)

NOTICE Parts may not be exactly as shown.



LOCATION	PART NUMBER	DESCRIPTION
1 a.	900-3934-24	Tongue Jack Cylinder - Welded
b.	904-0007-14	Pin For Welded Cylinder (Not Shown)
2.	914-1000-38	Lock Pin
3.	980-0131-50	Inside Tube Assembly
4.	980-0509-53	Drop Leg Foot Pad Assembly
5.	900-3925-94	Check Valve
6 a.	900-3920-01	Tongue Jack Valve (SAE O-rings)
b.	900-3901-42	Tongue Jack Valve (Pipe Fittings)
7.	980-0509-00	Hydraulic Tongue Jack Kit (Includes #'s 1 - 6)

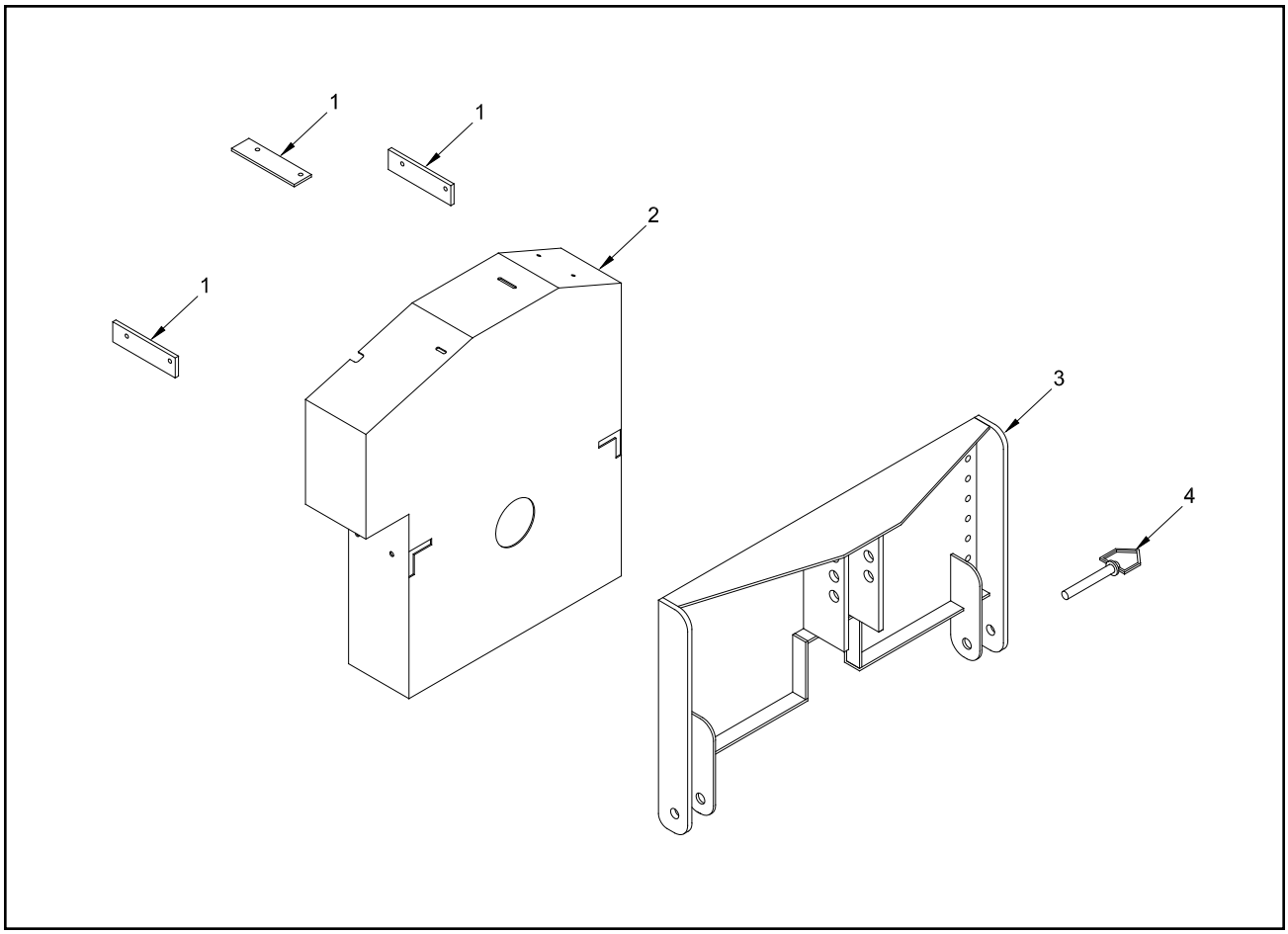
NOTICE Parts may not be exactly as shown.



LOCATION	PART NUMBER	DESCRIPTION
1.	980-0508-17	Bandit H.D. Foldaway Radiator Screen Ass'y (specify latch type)
2.	980-0122-86	Spring Lock Tab Foldaway Radiator Screen
3.	*-*	Mount Tray For Foldaway Radiator Screen
4.	900-7900-57	Weather Strip
5 a.	900-4901-83	Spring Lock Plunger
b.	900-7900-93	Rubber Cap For Spring Lock - 1/2" Diameter
6.	900-4901-61	Hook Pull Clamp
7.	980-0128-77	Lock Tab For Hook

***-* Will Vary Depending On Engine And Component Options. Order By Serial Number Of Chipper Or Physical Description.**

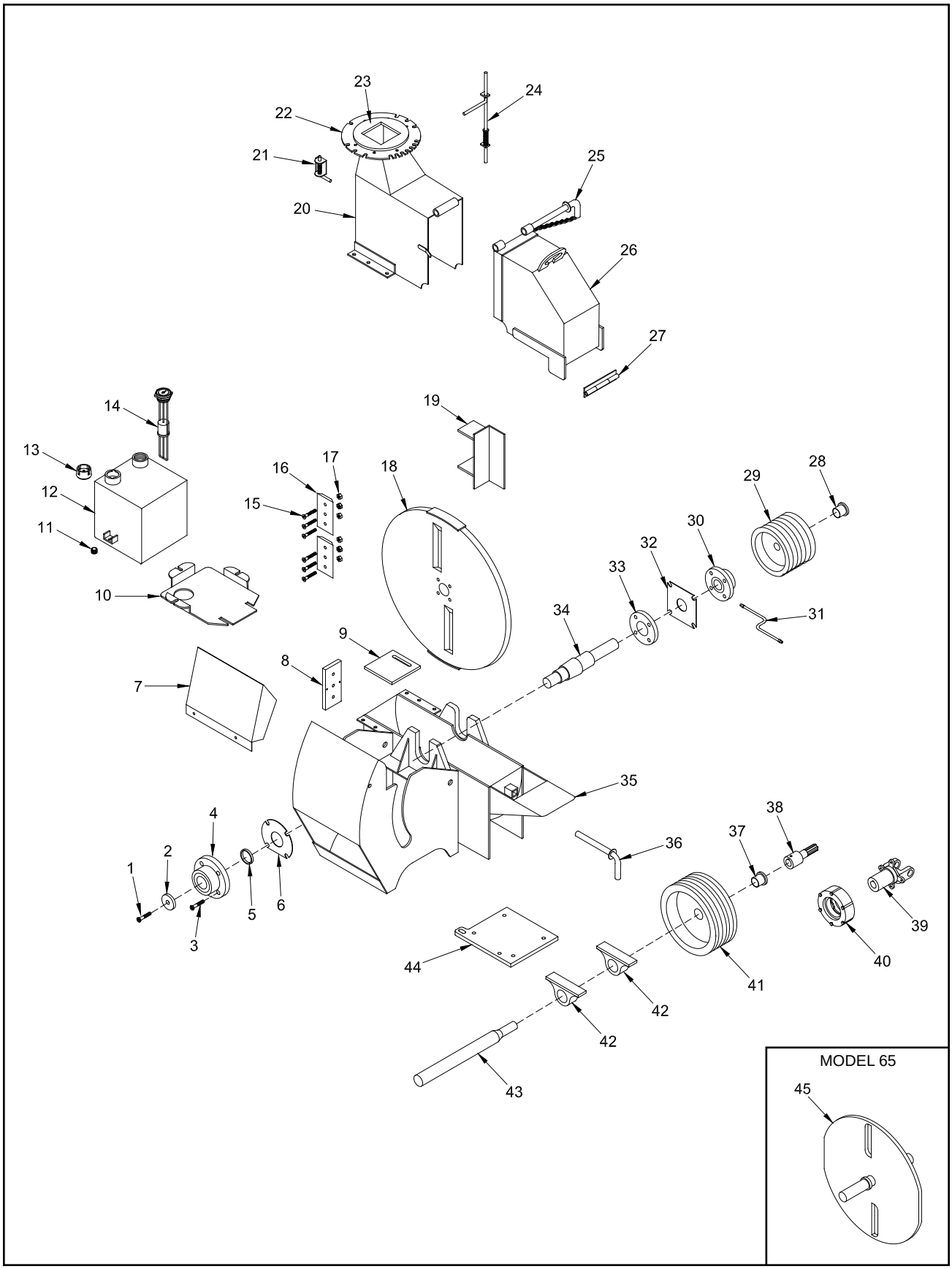
NOTICE Parts may not be exactly as shown.



LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-0001-98	986-1108-86	Beltshield Mount
2.	626-0500-33	986-0500-64	Beltshield Assembly
3.	626-200051	980-0501-21	3-Point Hitch
4.	900-4907-44	900-4902-35	3-Point Hitch Pin

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NOTICE Parts may not be exactly as shown.

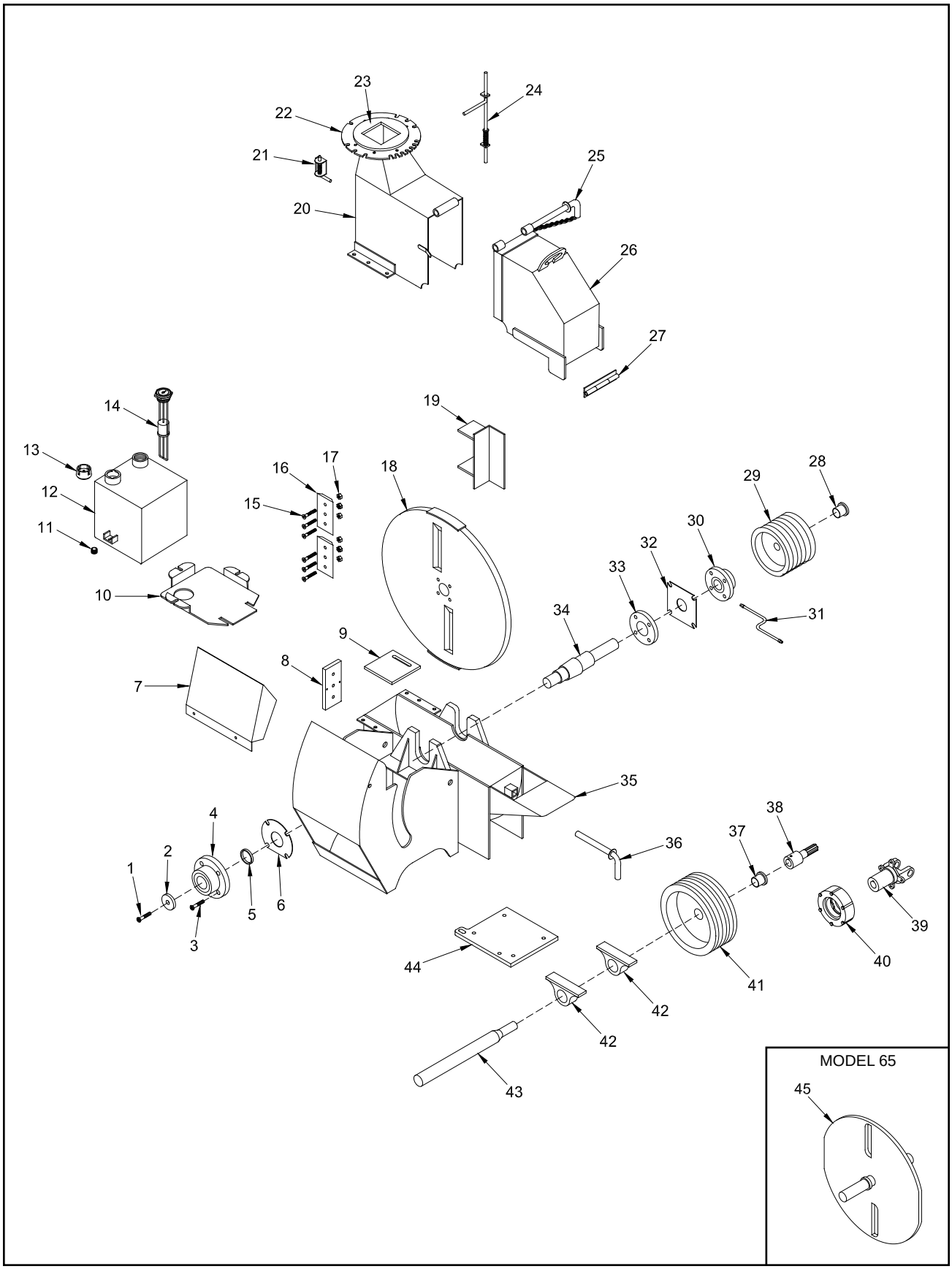
Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1 a.	900-4903-30	900-4902-78	Bearing Retainer Bolt
b.	900-4901-38	900-4900-33	Lock Washer
2 a.	626-300082	980-0125-10	Bearing Retainer (Without Autofeed)
b.	626-0004-54	980-0132-41	Bearing Retainer (With Autofeed)
3 a.	900-4906-72	900-4903-32	Front Chipper Bearing Bolt
b.	900-4906-86	900-4906-87	Lock Washer (Not Shown)
4.	900-1904-13	900-1900-33	Front Chipper Bearing
5 a.	626-0001-93	980-0101-72	1/16” Disc Spacer
b.	626-0001-94	980-0101-73	1/8” Disc Spacer
c.	626-0001-95	980-0101-74	3/16” Disc Spacer
d.	626-0001-96	980-0101-75	1/4” Disc Spacer
e.	N/A	995-0001-04	5/16” Disc Spacer
f.	N/A	995-0001-05	3/8” Disc Spacer
6.	626-0000-66	980-0119-38	Front Chipper Bearing Backer Plate
7.	626-300079	995-0001-19	Feedwheel Guard
8.	See Page 97	See Page 97	Anvil
9.	981-1008-07	981-1008-07	Pump Mount
10.	626-300211	986-300001	Hydraulic Tank Tray
11.	900-3922-60	900-3922-60	Magnetic Drain Plug
12.	926-200000	986-200045	Hydraulic Tank - Overlap Style
13 a.	900-3901-51	900-3901-51	Fill Cap With Dipstick (Steel Tank)
b.	900-3917-71	900-3917-71	Fill Cap Only No Dipstick (Steel Tank)
c.	900-3941-30	900-3941-30	Hydraulic Locking Fill Cap - Black
d.	900-3935-06	900-3935-06	Keeper For Fuel & Hydraulic Locking Cap (Not Shown)
14 a.	900-2903-93	900-2903-93	Optional Rochester Sight Gauge
b.	900-2903-55	900-2903-55	Face For Sight Gauge Only
15.	See Page 95	See Page 95	Chipper Knife Bolt
16.	See Page 95	See Page 95	Chipper Knife
17.	See Page 95	See Page 95	Chipper Knife Nut
18 a.	See Page 139	995-200001	2-Knife Disc Assembly (Includes 15-19 & 33-34)
b.	See Page 139	995-200002	3-Knife Disc Assembly (Includes 15-19 & 33-34)
c.	See Page 139	980-0123-82	Chipper Disc Lock Tube On Disc
19.	*--*	*--*	Fan Blade Assembly
20 a.	626-200027	995-200003	Hood Stationary Half for Manual Swivel Discharge
b.	626-200028	995-200004	Hood Stationary Half for Hand Crank Swivel Discharge
21.	900-4901-83	900-4908-27	Discharge Spring Lock
22 a.	626-300401	980-300424	Bottom Swivel Ring for Manual Swivel Discharge
b.	626-300401	980-0128-23	Bottom Swivel Ring for Hand Crank Swivel Discharge
23.	626-300106	980-300349	Hood Flange
24 a.	626-0501-16	980-0508-54	Spring Lock for Hood Pin
b.	900-7900-92	900-7900-93	Black Vinyl Cap
25 a.	626-300068	981-1006-48	Hood Pin With Attaching Chain
b.	900-4902-20	900-4902-20	Padlock for Hood Pin (Not Shown)
c.	P812	P812	Key for Padlock (Not Shown)
26.	626-200026	995-200005	Hood - Hinged Half
27.	626-300099	980-0101-59	Chipper Hood Hinge

-- Contact your nearest dealer or Bandit Industries for Fan Blade Assemblies

** Components vary, order according to S/N of chipper or physical description.
For Chipper Disc only contact your nearest dealer or Bandit Industries.
Model 65 Disc Shaft is part of Chipper Disc Assembly.

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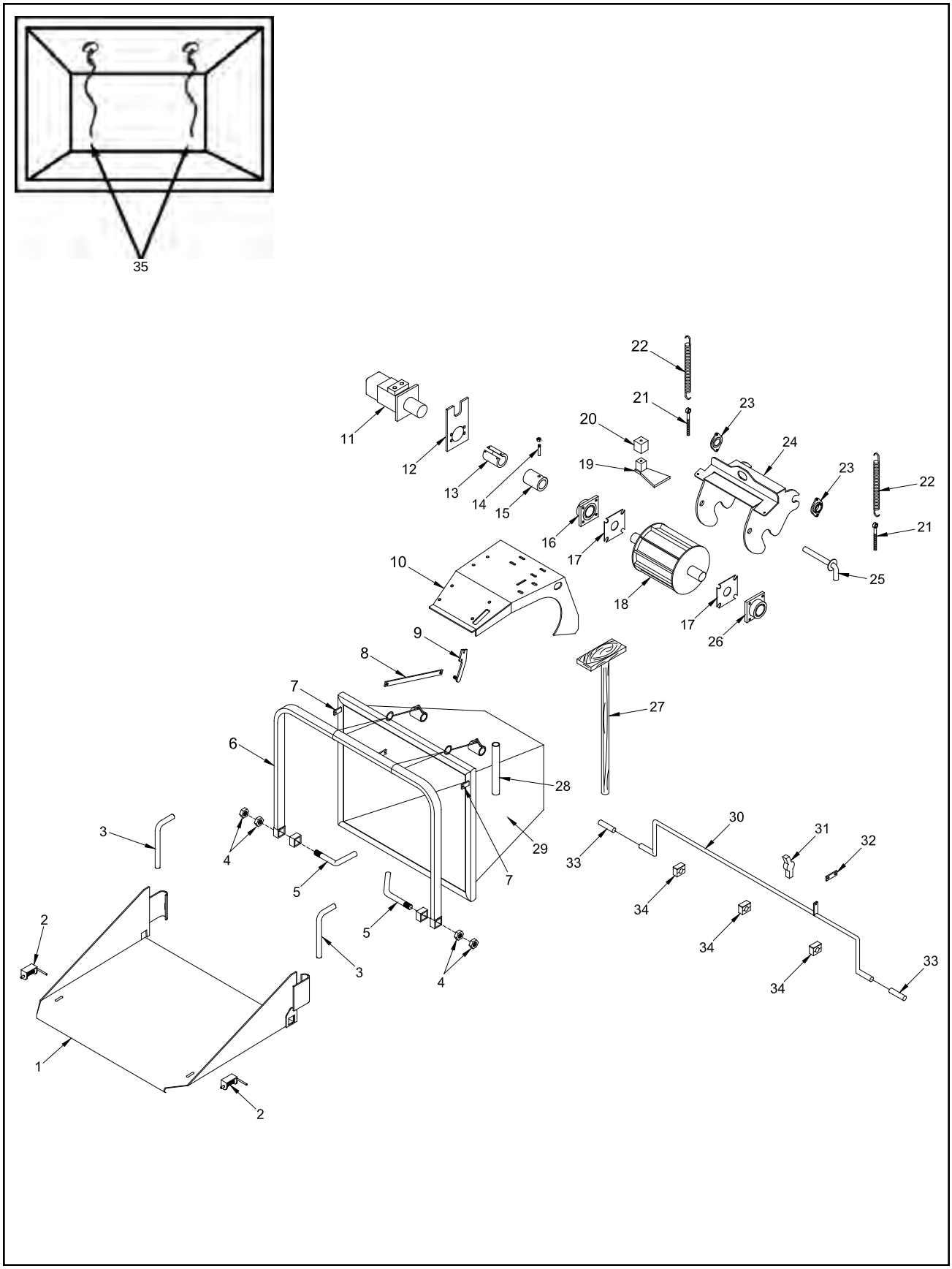


NOTICE Parts may not be exactly as shown.

Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
28.	**	**	Chipper Sheave Bushing
29.	**	**	Chipper Sheave
30 a.	900-1903-30	900-1900-34	Rear Chipper Bearing
b.	900-4901-21	900-4903-32	Rear Chipper Bearing Bolt (Not Shown)
c.	900-4906-87	900-4906-87	Lock Washer (Not Shown)
31.	900-3900-69	900-3900-69	Rear Chipper Bearing Grease Line
32.	926-1002-61	980-0121-65	Rear Chipper Bearing Backer Plate
33 a.	N/A	980-0126-63	Chipper Draw Ring
b.	N/A	900-4902-96	Chipper Draw Ring Bolt (Not Shown)
c.	N/A	900-4902-97	Chipper Draw Ring Nut (Not Shown)
34.	See #45	980-0110-87	Chipper Shaft
35.	626-300048	626-0001-78	Hood Stop
36.	626-300068	955-1015-32	Chipper Disc Lock Pin
37 a.	**	**	Drive Sheave
b.	**	**	Drive Sheave Bushing (Not Shown)
38 a.	900-1903-25	N/A	6 Spline Adaptor-1 3/8” Dia. Shaft To 1 3/8” Dia. 6 Spline
b.	980-0113-54	N/A	21 Spline Adaptor- 1 3/8” Dia. Shaft To 1 3/8” Dia. 21 Spline
c.	N/A	900-1907-96	6 Spline Adaptor-1 1/2” Dia. Shaft To 1 3/8” Dia. 6 Spline(Start 2/03)
d.	N/A	900-1903-25	6 Spline Adaptor-1 3/8” Dia. Shaft To 1 3/8” Dia. 6 Spline(Pre 2/03)
e.	N/A	980-0113-54	21 Spline Adaptor- 1 3/8” Dia. Shaft To 1 3/8” Dia. 21 Spline(Pre 2/03)
39 a.	900-6902-20	N/A	Yoke For Slip Clutch - 1 3/8” Diameter Shaft
b.	N/A	900-6907-94	Yoke For Slip Clutch - 1 1/2” Diameter Shaft (Start 2/03)
c.	N/A	900-6902-20	Yoke For Slip Clutch - 1 3/8” Diameter Shaft (Pre 2/03)
40.	900-6902-21	900-6902-21	Clutch Pack For Slip Clutch
41.	**	**	Drive Sheave
42 a.	900-1901-96	N/A	PTO Bearing - 1 3/8” Diameter
b.	N/A	900-1907-94	PTO Bearing - 2 1/4” Diameter (Start 2/03)
c.	N/A	900-1901-96	PTO Bearing - 1 3/8” Diameter (Pre 2/03)
43 a.	980-0110-21	N/A	PTO Shaft - 1 3/8” Diameter
b.	N/A	980-0134-75	PTO Shaft-2 1/4” Diameter To 1 1/2” Diameter(Start 2/03)
c.	N/A	980-300329	PTO Shaft- 2 1/4” Diameter To 1 3/4” Diameter 20 Spline(Start 2/03)
d.	N/A	980-300322	PTO Shaft- 2 1/4” Diameter To 1 3/8” Diameter 6 Spline(Start 2/03)
e.	N/A	980-300323	PTO Shaft- 2 1/4” Diameter To 1 3/8” Diameter 21 Spline(Start 2/03)
f.	N/A	980-0110-21	PTO Shaft - 1 3/8” Diameter (Pre 2/03)
44 a.	922-0006-37	980-0134-76	Belt Tightener Plate
b.	981-200040	981-200040	Belt Tightener Hinge (Not Shown)
c.	900-4902-74	900-4902-74	Belt Tightener Adjuster (Not Shown)
d.	900-4903-25	900-4903-25	Adjuster Jam Nut (Not Shown)
e.	986-1108-58	986-1108-58	Puller Block for Adjuster (Not Shown)
45 a.	626-200052	See Page 137	2-Knife Disc With Shaft and Fan Blades
b.	626-200053	See Page 137	3-Knife Disc With Shaft and Fan Blades
c.	626-300084	See Page 137	Chipper Disc Lock Tube On Disc
46.	**	**	Chipper Belt (Not Shown)
47.	**	**	Hydraulic Pump Belt (Not Shown)

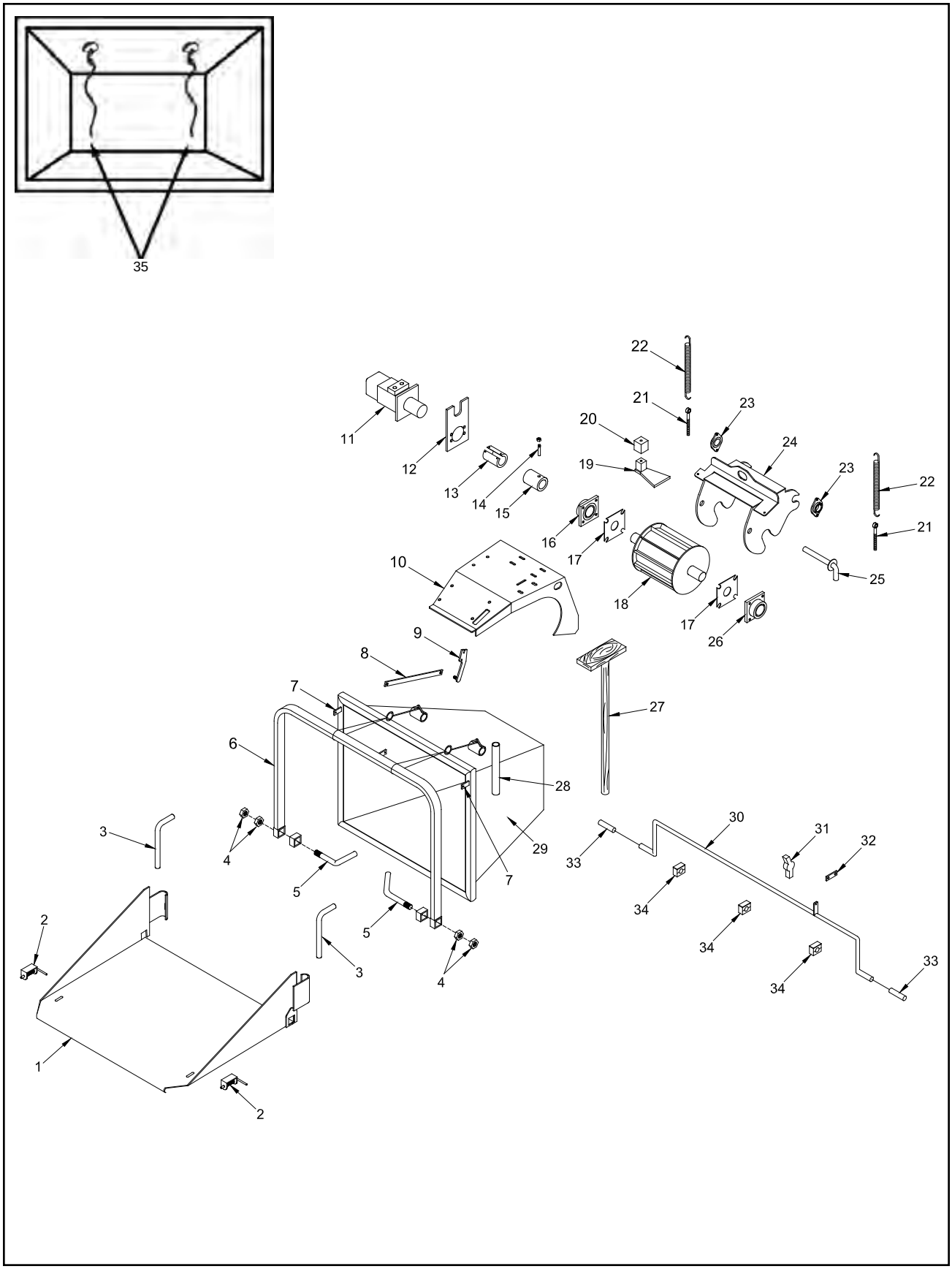
-- Contact your nearest dealer or Bandit Industries for Fan Blade Assemblies
** Components vary, order according to S/N of chipper or physical description.
For Chipper Disc only contact your nearest dealer or Bandit Industries.
Model 65 Disc Shaft is part of Chipper Disc Assembly.



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Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-200019	995-100000	Folding Pan for Infeed Hopper
2 a.	900-4901-83	900-4901-83	Folding Pan Spring Lock & Trap Door Lock
b.	900-7900-93	900-7900-93	Rubber Cap (Not Shown)
3 a.	955-1003-94	955-1003-94	Folding Pan Lock Pin
b.	900-7900-96	900-7900-96	Rubber Cap (Not Shown)
4.	900-4900-44	900-4900-44	Pivot Pin Jam Nuts
5.	626-300001	980-0122-58	Pivot Pin
6.	626-200020	980-100019	Control Handle
7.	980-0137-06	980-0137-06	Lock Tab for Folding Pan
8.	626-0001-80	980-300156	Hydraulic Control Arm
9.	980-0125-74	980-0125-74	Feedwheel Control Valve Linkage
10.	N/A	995-200000	Winch and Valve Mount (Start 9/04 Approx.)
11 a.	900-3927-67	900-3908-68	Feedwheel Hydraulic Motor (Tapered Shaft)
b.	N/A	900-3908-19	Feedwheel Hydraulic Motor (RE-32 With Straight Shaft)
c.	N/A	900-3906-30	Feedwheel Hydraulic Motor (RE-45 With Straight Shaft)
12.	980-0124-98	981-1006-44	Feedwheel Torque Arm
13 a.	900-7901-23	900-7901-23	Rubber Coupler Guard - 17 3/4” (Start 6/05)
b.	900-7900-38	900-7900-38	Rubber Coupler Guard - 15 3/4” (Pre 6/05)
c.	980-0508-57	980-0508-57	Coupler Guard Mount (Not Shown)
14 a.	900-4909-53	900-4909-54	Taper Pin With Nut
b.	900-4903-99	900-4905-55	Taper Pin
15 a.	626-300268	981-300140	Coupler With Motor Nut and Taper Pin With Nut
b.	626-0001-69	981-1006-45	Coupler With Motor Nut and Taper Pin
16 a.	900-1909-80	900-1909-80	Feedwheel Bearing (Grip-Tight Style) (Start 8/04)
b.	900-4912-37	900-4912-37	Feedwheel Bearing Bolt (1/2”-13NC x 1” SHCS)
c.	900-1900-66	900-1900-66	Feedwheel Bearing (Pre 8/04)
d.	900-4900-13	900-4900-13	Feedwheel Bearing Bolt (Pre 8/04)
17.	980-300083	980-300083	Feedwheel Bearing Backer Plate
18 a.	626-200054	995-200006	Feedwheel Assembly
b.	626-300132	980-0120-39	Feedwheel Tooth - Knife Edge
c.	626-300134	N/A	Feedwheel Tooth - Serrated
d.	626-300062	981-0501-34	Feedwheel Shaft & Coupler Assembly
19 a.	980-300515	981-300199	Torque Arm Stop (Start 4/06)
b.	937-300316	937-300316	Torque Arm Cushion Mount (Start 4/06)
c.	980-300069	981-1006-71	Torque Arm Stop (Pre 4/06)
d.	955-1014-01	955-1014-01	Torque Arm Stop Block (Pre 4/06)
20.	937-900009	937-900009	Torque Arm Cushion (Start 4/06)
21.	900-4905-43	900-4902-29	Yoke Spring Adjuster
22.	900-4900-04	900-4900-04	Yoke Spring
23.	900-1901-08	900-1901-08	Yoke Pivot Bearing
24.	626-200056	995-200007	Top Yoke Assembly

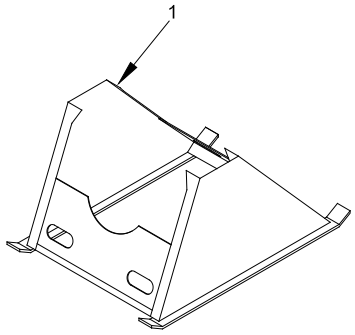


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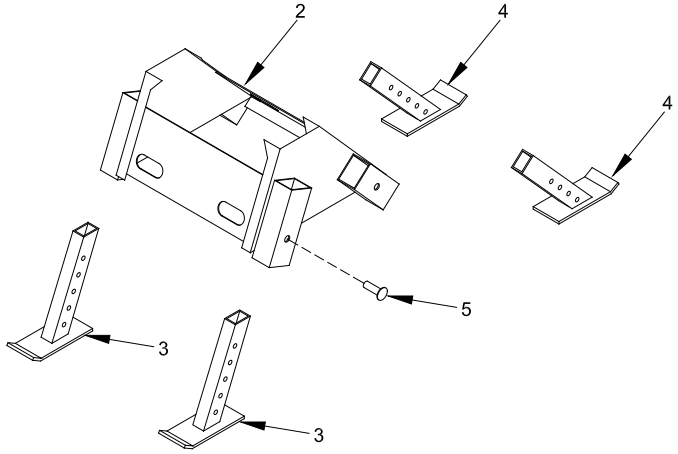
Bandit

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
25.	626-300068	955-1015-32	Yoke Lock Pin
26 a.	900-1909-79	900-1909-79	Feedwheel Bearing (Set Screw Style) (Start 8/04)
b.	900-1909-81	900-1909-81	Feedwheel Bearing - Debris (Set Screw) (Start 8/04)
c.	900-4912-37	900-4912-37	Feedwheel Bearing Bolt (1/2”-13NC x 1” SHCS)
d.	900-1900-66	900-1900-66	Feedwheel Bearing (Pre 8/04)
e.	900-4900-13	900-4900-13	Feedwheel Bearing Bolt (Pre 8/04)
27.	626-0000-52	980-0507-42	Wooden Push Paddle
28 a.	980-0122-55	980-0122-55	Wooden Push Paddle Mount
b.	900-4914-18	900-4914-18	Plastic Knob (Not Shown)
29.	626-200009	995-0500-32	Infeed Hopper Assembly
30.	N/A	980-300064	Dual Yoke Lift Control Bar
31.	N/A	900-3930-96	Short Valve Handle - Lift Cylinder Control Linkage
32.	N/A	980-0137-41	Control Arm - Dual Yoke Lift
33.	N/A	900-7900-96	Rubber Cap - Dual Yoke Lift Control Bar
34.	N/A	900-3914-02	Clamp - Lift Control Bar
35 a.	980-0508-64	980-0508-64	Last Chance Cable Assembly
b.	900-4904-29	900-4904-29	Last Chance Orange Cable & Clamp

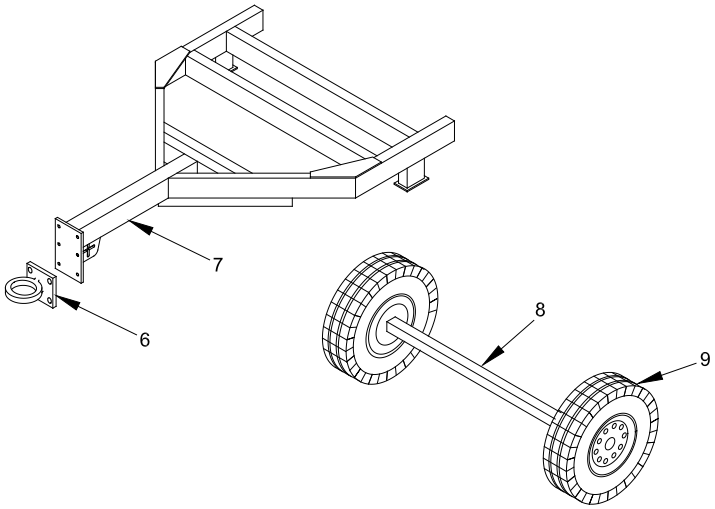
STANDARD LEGS



ADJUSTABLE LEGS



TRAILERIZED



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STANDARD LEGS

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
1.	626-200057	995-200008	Standard Leg Assembly

ADJUSTABLE LEGS

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
2.	626-200058	995-200009	Adjustable Leg Assembly
3.	626-200059	995-200011	Rear Adjustable Legs (3-Point Side)
4.	626-200059	995-200010	Front Adjustable Legs (Infeed Hopper Side)
5.	986-1108-53	986-1108-53	Pin

TRAILERIZED

LOCATION	MODEL 65 PART NUMBER	MODEL 95 PART NUMBER	DESCRIPTION
6 a.	900-5900-13	900-5900-13	2 1/2” Heavy Duty Pintle Ring Hitch
b.	900-5905-73	900-5905-73	3” Heavy Duty Pintle Ring Hitch (Not Shown)
c.	980-0505-33	980-0505-33	2 5/16” Ball Coupler Assembly (Not Shown)
d.	980-0501-47	980-0501-47	2” Ball Coupler Assembly (Not Shown)
e.	980-0507-78	980-0507-78	1” Drop Pin Hitch Assembly (Not Shown)
7.	626-200001	986-200020	Frame Assembly
8.	900-5904-17	900-5903-69	Axle
9 a.	900-5905-90	N/A	20.5” x 8” x 10” Tire And White, 5-Bolt Rim
b.	900-5905-88	N/A	20.5” x 8” x 10” Tire Only
c.	900-5905-89	N/A	10” White, 5-Bolt Rim Only
d.	N/A	900-5901-69	185/75R-14” Tire And Black, 5-Bolt Rim
e.	N/A	900-5903-08	185/75R-14” Tire Only
f.	N/A	900-5901-60	14” Black, 5-Bolt Rim Only

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SERVICE RECORD

DATE	DESCRIPTION	AMOUNT

Bogotá D.C., 27 de abril de 2026

Calificación valor agregado 1 – Maquinaria

La empresa Ecoprados Ambientales SAS, para traslado de herramienta, contamos con un camión tipo furgón y para llevar los trabajadores la camioneta y para transportar los residuos vegetales camión 600 cerrado.

Maquina chipeadora:



gerencia@ecopradosambientales.co
Tel. 3118137222



gerencia@ecopradosambientales.co
Tel. 3118137222

9.Formato Acreditación Mipyme

Señores

EMPRESA AGUAS DE BOGOTA SA ESP

REFERENCIA: Proceso de Contratación No. INVITACIÓN PUBLICA IPP Nº 30- 2026

Objeto:
CONTRATAR ACTIVIDADES DE MANEJO SILVICULTURAL Y COMPLEMENTARIAS REQUERIDAS POR AGUAS DE BOGOTÁ S.A. E.S.P

Estimados señores:

Luis Francisco Moreno Sandoval, identificado con CC No 423972 de Topaipí, en mi calidad de representante legal de Ecoprados Ambientales SAS con identificación tributaria NIT 901621427-4 y JOHANA ALEXANDRA RODIGUEZ SUAREZ identificada con cédula de ciudadanía No 1031142564 de Bogotá y de la tarjeta profesional No. 254972-T, actuando en mi calidad de contador público, de la sociedad Ecoprados Ambientales SAS bajo la gravedad de juramento y con conocimiento de las responsabilidades que ello implica y de conformidad con el artículo 2 de la Ley 590 de 2000, modificado por el artículo 43 de la Ley 1450 de 2011 y sus decretos reglamentarios o las normas que lo modifiquen, CERTIFICAN Que el proponente Ecoprados Ambientales SAS tiene la calidad de: MICROEMPRESA

Adicionalmente, los abajo firmantes certificamos que ni la Mipyme, cooperativa o asociación mutual ni sus accionistas, socios o representantes legales son empleados, socios o accionistas de los miembros del proponente plural.

En constancia, se firma en _ Bogotá ___, a los 27 días del mes de 04 de 20 26

LUIS FRANCISCO MORENO SANDOVAL
CC. 423972
REPRESENTANTE LEGAL ECOPRADOS AMBIENTALES SAS

_____
JOHANA ALEXANDRA RODIGUEZ SUAREZ
CC 1031142564 de Bogotá
CONTADORA ECOPRADOS
TP 254972-T

Bogotá 27 de abril de 2026
Señores Aguas de Bogotá
Ciudad

Estimados señores:

Luis Francisco Moreno Sandoval, identificado con CC No 423972 de Topaipi, en mi calidad de representante legal de Ecoprados Ambientales SAS con identificación tributaria NIT 901621427-4 y JOHANA ALEXANDRA RODIGUEZ SUAREZ identificada con cédula de ciudadanía No 1031142564 de Bogotá y de la tarjeta profesional No. 254972-T, declaramos bajo la gravedad de juramento que la sociedad se encuentra clasificada como: micro empresa, de acuerdo con los criterios definidos por las normas legales vigentes.

Adicionalmente, los abajo firmantes certificamos que ni la Mipyme, cooperativa o asociación mutual ni sus accionistas, socios o representantes legales son empleados, socios o accionistas de los miembros del Proponente Plural.

En constancia, se firma en Bogotá, a los 30 días del mes de marzo de 2026.

Firman,



LUIS FRANCISCO MORENO SANDOVAL
CC. 423972
REPRESENTANTE LEGAL ECOPRADOS AMBIENTALES SAS



JOHANA ALEXANDRA RODIGUEZ SUAREZ
CC 1031142564 de Bogotá
CONTADORA ECOPRADOS
TP 254972-T

11.Autorización para el tratamiento de datos personales.

Señores
EMPRESA AGUAS DE BOGOTA SA ESP

Cumpliendo la Ley 1581 de 2012 "Por el cual se dictan disposiciones para la protección de datos personales" y conforme al Decreto 1377 de 2013, con la firma de este documento manifiesto que he sido informado por el EMPRESA AGUAS DE BOGOTA SA ESP de lo siguiente:

La EMPRESA AGUAS DE BOGOTA SA ESP, actuará como responsable del tratamiento de datos personales de los cuales soy titular y que, conjunta o separadamente podrá recolectar, almacenar y usar mis datos personales para hacer efectivo el factor de desempate previsto en el numeral 4.6, numerales 2, 5, 6 y 7 del pliego de condiciones, relacionados con la acreditación de ser víctima de violencia intrafamiliar, persona en proceso de reintegración o reincorporación, o persona perteneciente a la población indígena, negra, afrocolombiana raizal, palenquera, Rrom, o gitanas.

	Autoriza	
Finalidad	SI	NO
Hacer efectivo el factor de desempate para la acreditación de mujer víctima de violencia intrafamiliar, persona perteneciente a la población indígena, negra, afrocolombiana raizal, palenquera, Rrom, o gitanas, o persona en proceso de reintegración o reincorporación.	X	

Entiendo que son datos sensibles aquellos que afectan la intimidad del titular o cuyo uso indebido puede generar discriminación, tales como aquellos que revelen el origen racial o étnico, la orientación política, las convicciones religiosas o filosóficas, la pertenencia a sindicatos, organizaciones sociales, de derechos humanos o que promueva intereses de cualquier partido político o que garanticen los derechos y garantías de partidos políticos de oposición así como los datos relativos con la salud, la vida sexual y los datos biométricos.
Manifiesto que me informaron que los datos sensibles que se recolectarán serán utilizados para hacer efectivo el criterio de desempate previsto en el numeral 4.6, numerales 2, 5, 6 y 7 del pliego de condiciones, relacionados con la acreditación de ser víctima de violencia intrafamiliar, integrante de la población indígena, negra, afrocolombiana raizal, palenquera, Rrom, o gitanas, o persona en proceso de reintegración o reincorporación. Derechos del titular
Sus derechos como titular de los datos son los previstos en la Constitución y en la Ley 1581 de 2012, especialmente los siguientes:
Acceder en forma gratuita a los datos proporcionados que hayan sido objeto de tratamiento.
Solicitar la actualización y rectificación de su información frente a los datos parciales, inexactos, incompletos.
Solicitar prueba de la autorización otorgada.
Presentar ante la Superintendencia de Industria y Comercio quejas por infracciones a lo dispuesto en la normatividad vigente.
Revocar la autorización y/o solicitar la supresión del dato, a menos que exista un deber legal o contractual que

haga imperativo conservar la información.
Abstenerse de responder las preguntas sobre datos sensibles o sobre datos de las niñas y niños y adolescentes.
Estos derechos los podré ejercer mediante los canales o medios dispuestos por la EMPRESA AGUAS DE BOGOTA SA ESP para la atención al público a saber: el correo electrónico_____; y las oficinas de atención al cliente ubicadas en la EMPRESA AGUAS DE BOGOTA SA ESP, cuya información puedo consultar en , disponibles de lunes a viernes de 8:00 am a 6:00 p.m.

Por todo lo anterior, he otorgado mi consentimiento la EMPRESA AGUAS DE BOGOTA SA ESP para que trate mi información personal de acuerdo con la Política de Tratamiento de Datos Personales dispuesta en ; y que me dio a conocer antes de recolectar mis datos personales.
Manifiesto que la presente autorización me fue solicitada y puesta de presente antes de entregar mis datos y que la suscribo de forma libre y voluntaria una vez leída en su totalidad.
Nombre: [Incluir nombre del titular de la autorización datos sensibles para la autorización de datos] Firma:

Luis Francisco Moreno Sandoval
CC. 423972
Representante Legal Ecoprados Ambientales SAS
NIT. 901621427-4
27 DE ABRIL DE 2026

