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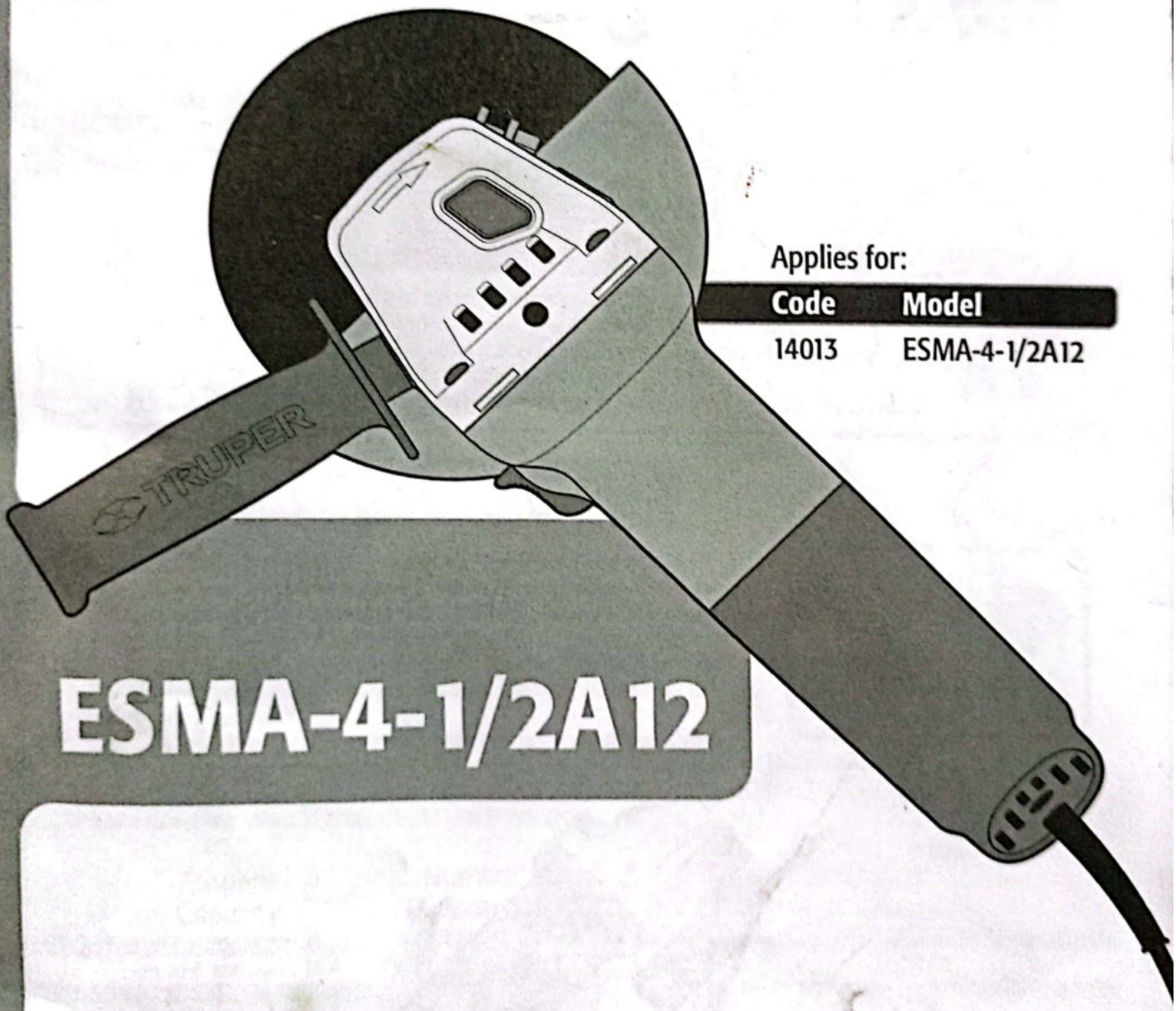
TRUPER®

Manual

# Angle grinder

**0.9 Hp** Power

**4 1/2"** Disc




Applies for:

| Code | Model |
|---|---|
| 14013 | ESMA-4-1/2A12 |

## ESMA-4-1/2A12

**CAUTION** Read this manual thoroughly before using the tool.

WARRANTY TRUPER WARRANTY

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**⚠ CAUTION**

**To gain the best performance of the tool, prolong the duty life, make the Warranty valid if necessary, and to avoid hazards of fatal injuries please read and understand this Manual before using the tool.**

Keep this manual for future references.

The illustrations in this manual are for reference only. They might be different from the real tool.






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# Technical Data

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| | ESMA-4-1/2A12 |
|---|---|
| Code | 14013 |
| Description | Angle grinder |
| Discs | 4 ½" |
| Voltage | 127 V~ |
| Frequency | 60 Hz |
| Current | 5.1 A |
| Power | 0.9 Hp |
| Speed | 11 000 RPM |
| Duty cycle | 30 minutes work per 15 minutes idle. Maximum 3 hours per day. |
| Conductors | 18 AWG x 2C with insulating temperature of 221 °F |
| Insulating | Class II |
| IP Grade | IP20 |

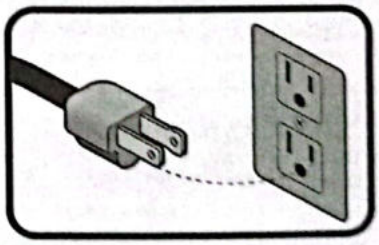
Power Cord Grips used in this product: Type Y
Tool Build Quality: Reinforced.
Thermal insulation on motor winding: Class B

**⚠WARNING** Avoid the risk of electric shock or severe injury. When the power cable gets damaged it should only be replaced by the manufacturer or at a TRUPER® Authorized Service Center.
The build quality of the electric insulation is altered if spills or liquid gets into the tool while in use.
Do not expose to rain, liquids and/or dampness.

**⚠WARNING** Before gaining access to the terminals all power sources should be disconnected.

# Power Requirements

**⚠WARNING** Tools with double insulation and reinforced insulation are equipped with a polarized plug (one prong is wider than the other). This plug will only fit in the right way into a polarized outlet. If the plug cannot be introduced into the outlet, reverse the plug. If it still doesn't fit, call a qualified electrician to install for you a polarized outlet. Do not alter the plug in any way. Both insulation types eliminate the need of both a grounded third power cord with three prongs or a grounded power connection.



**⚠WARNING** When using an extension cable, verify the gauge is enough for the power that your product needs. A lower gauge cable will cause voltage drop in the line, resulting in power loss and overheating. The following table shows the right size to use depending on cable's length and the ampere capability shown in the tool's nameplate. When in doubt use the next higher gauge.

| Ampere Capacity | Number of Conductors | Extension gauge from 6' to 49' | Extension gauge higher than 49' |
|---|---|---|---|
| from 0 A and up to 10 A | 3 (one grounded) | 18 AWG(•) | 16 AWG |
| from 10 A and up to 13 A | | 16 AWG | 14 AWG |
| from 13 A and up to 15 A | | 14 AWG | 12 AWG |
| from 15 A and up to 20 A | | 8 AWG | 6 AWG |

• It is safe to use only if the extensions have a built-in artifact for over current protection.
AWG = American Wire Gauge. Reference: NMX-J-195-ANCE

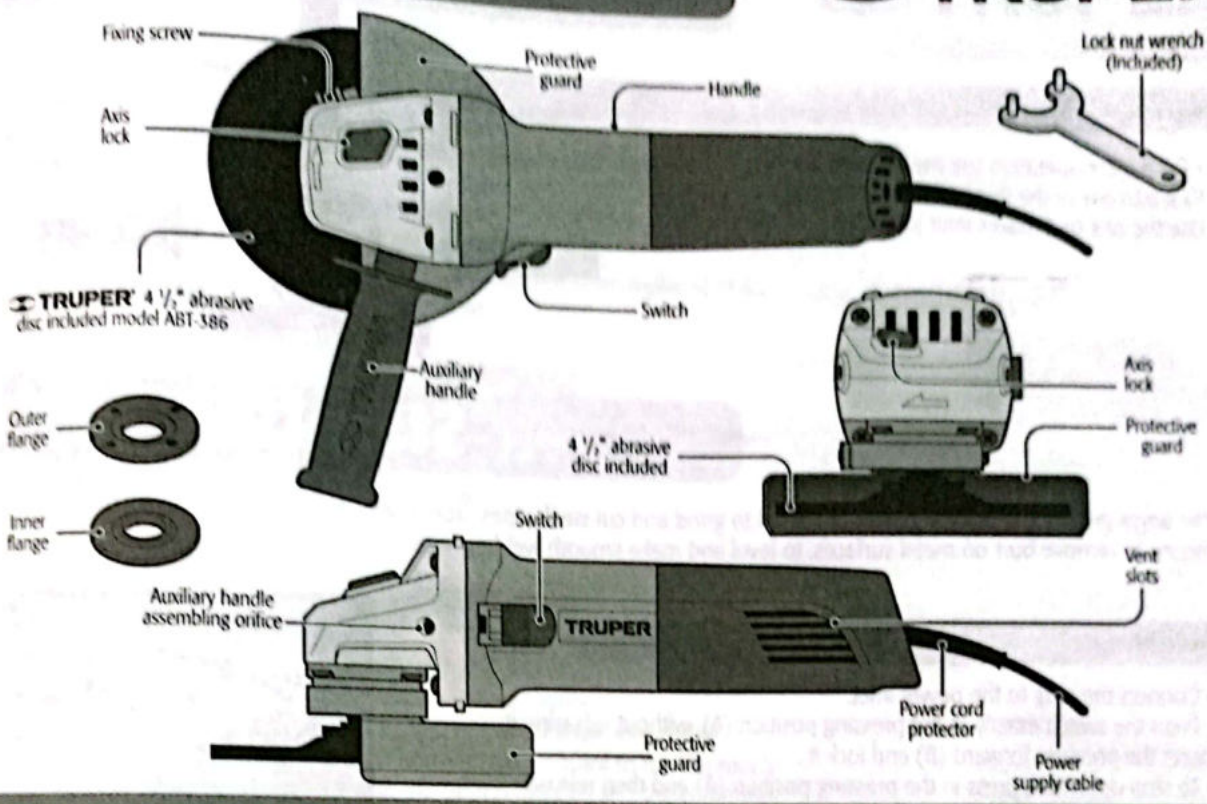
**⚠WARNING** When operating power tools outdoors, use a VOLTECK grounded extension cable labeled "For Outdoors Use". These extensions are specially designed for operating outdoors and reduce the risk of electric shock.



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# Parts

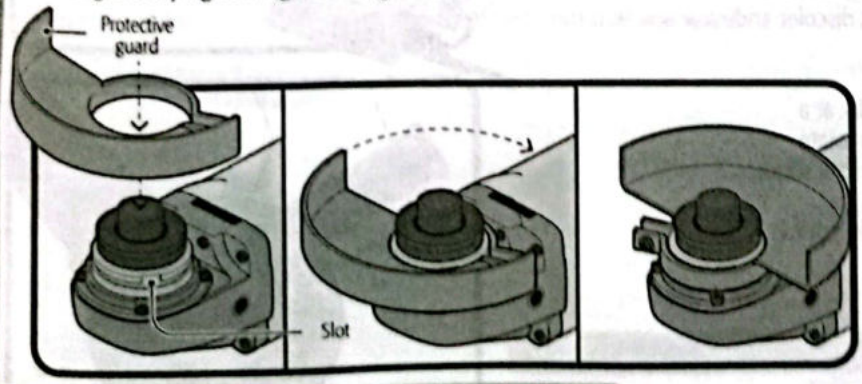
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# Assembly

## Protection Guard Assembly

- Using a philips screw, loosen the fixing screw so that the inner side of the guard passes freely over the slots on the cover.
- Match both cantilevered parts inside the protection guard with the corresponding slots in the axis cover. Push down to the cover.
- Turn 180° into the opposite position.
- Fix guard by tightening the fixing screw.

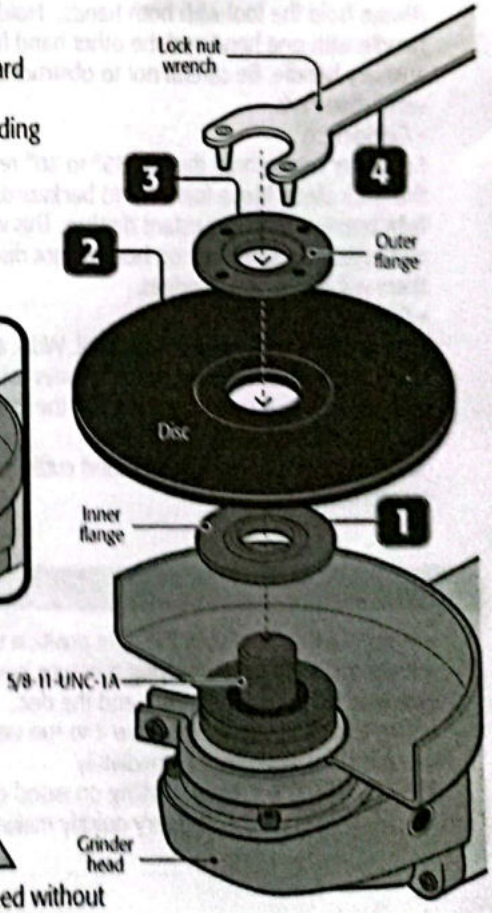



## Disc Assembly

**1.** Fit the inner flange onto the axis.
**2.** Set the disc onto the inner flange.
**3.** Set the outer flange onto the axis.
- Press the axis lock into the grinder head.

**4.** Screw the outer flange with the lock nut wrench until securely fastened.

**⚠ DANGER** The axis lock should only be used to change discs. ⚠
Never use the wrench to stop the disc while rotating.
After installing and inspecting the accessory, operate the tool at maximum speed without load for one minute. Damaged accesories usually break during this period of time.





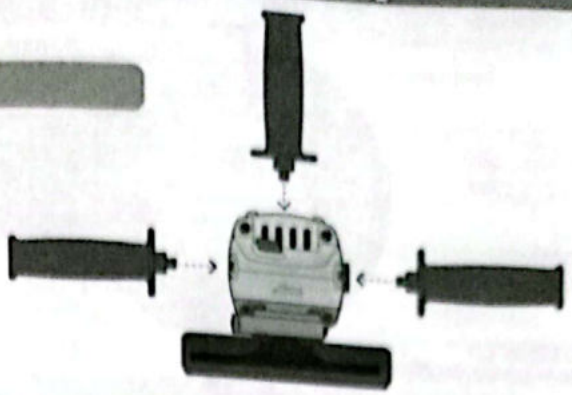

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# Assembly

## Auxiliary handle assembly

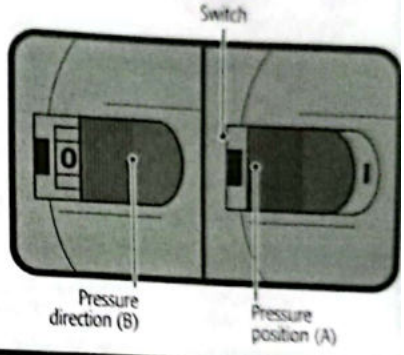
• For a safer operation use the auxiliary handle.
Fit it into any of the three mounting orifices.
Use the one that makes your job easier.



# Start Up

The angle grinder is a manual power tool used to grind and cut steel, pipes, iron angles, brick, tile, stone and / or ceramic pieces; to remove burr on metal surfaces, to level and make smooth welding lines.

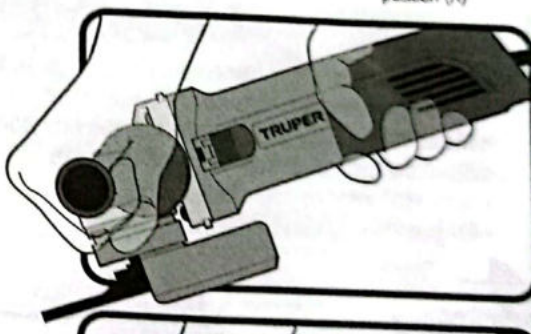
## Switch On

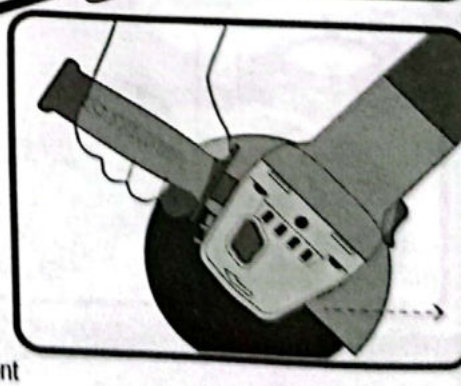



• Connect the plug to the power inlet.
• Press the switch exactly in the pressing position (A), without releasing it, direct the pressure forward (B) and lock it..
• To stop operation, press in the pressing position (A) and then release the switch.

## How to correctly hold the tool

Always hold the tool with both hands. Hold the handle with one hand and the other hand hold the auxiliary handle. Be careful not to obstruct the ventilation slots.
• Grinding:
For better results hold the tool 15° to 30° regarding the work piece. Move forwards to backwards applying light pressure with a constant rhythm. This way the work piece does not get too hot, will not discolor and there will not be rough edges.
• Cutting:
Do not press, tilt or oscillate the tool. Work at a moderate speed. The disc should always rotate counterclockwise since there is a risk the tool shoots out uncontrolled.
To cut hard stones using a diamond cutting disc is recommended.



## Useful tips

• Work placing the disc in the right position to prevent damage.
• Press the work piece applying pressure lower than the tool's weight to prevent overload damaging the motor and the disc.
• After installing a new disc allow it to run unloaded at least one minute. If vibration occurs replace immediately.
**⚠ CAUTION** • Avoid working on wood or soft metals like lead. These materials saturate the disc very quickly making it useless.



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