Agilent CrossLab
From Insight to Outcome

Agilent Preventive Maintenance Services

Agilent GCMS Preventive Maintenance

Agilent Preventive Maintenance provides factory recommended service for your analytical instruments to assure reliable operation and the accuracy of your results

Delivered by highly trained and certified service engineers using genuine Agilent parts and supplies, Agilent Preventive Maintenance provides what you need to reduce unplanned downtime and keep your systems operating at their peak performance.

This checklist is used as a guide for completing the preventive maintenance tasks. A signed copy of this checklist is provided for your records.

Agilent

Introduction

This checklist covers the following model(s):

Type	Model
SQ	5973 Series MSD
SQ	5975 Series MSD
SQ	5977 Series MSD
TQ	7000 Series MS/MS
TQ	7010 Series MS/MS
QTOF	7200 Series QTOF
QTOF	7250 Series QTOF

Customer Information

- Customers should provide all necessary operating supplies upon request of the engineer.
- A customer representative should be available to the engineer while performing the preventive maintenance procedures. Customers are responsible for regular maintenance and are encouraged to observe the service representative.
- Any parts not included in the Parts Lists section of this document are not part of the recommended Preventive Maintenance service nor are they included in the price of this service.
- If a system requires the use of extra or special procedures and/or parts for the maintenance service, then these must be ordered separately and charged as a repair, which may incur additional costs.

Customer Responsibilities

Customers should ensure that all necessary operating supplies, consumables, and usage-dependent items such as gases, vials, syringes, calibrant solution and solvents required for successful preventive maintenance are available. A customer representative should be available while the preventive maintenance is being performed.

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Important notice for customers

The customer should complete the following before the Support Provider arrives on site:

☑ Perform an autotune and retain the printed tune report just prior to the start of the PM to verify performance of the equipment.

Note: it is recommended to have the customer run the autotune and tune evaluation prior to the PM and then start the vent cycle so that the instrument will be ready for the service representative.

Important Customer Web Links

- To access Agilent training and education, visit http://www.agilent.com/chem/training to learn about training options, which include online, classroom and onsite delivery. A training specialist can work directly with you to help determine your best options.
- To access the **Agilent Resource Center** web page, visit https://www.agilent.com/en-us/agilentresources. The following information topics are available:
    - Sample Prep and Containment
    - Chemical Standards
    - Analysis
    - Service and Support
    - Application Workflows
- The **Agilent Community** is an excellent place to get answers, collaborate with others about applications and Agilent products, and find in-depth documents and videos relevant to Agilent technologies. Visit https://community.agilent.com/welcome
- Videos about specific preparation requirements for your instrument can be found by searching the **Agilent YouTube** channel at https://www.youtube.com/user/agilent
- **Need to place a service call?** Flexible Repair Options | Agilent

Service Engineer's Responsibilities

- Contact the customer and ensure that all necessary supplies are available before the preventive maintenance visit.
- Only select those pages that relate to the system or module being serviced.
- Complete empty fields with the relevant information.

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- Complete the relevant checkboxes in the checklist using either a "**X**" or tick mark "✓".
- Check **"Service not applicable"** check boxes to indicate services/tasks not delivered, as appropriate.
- Complete the Preventive Maintenance services in order by sections: Review, System Checks, Pump maintenance, Cleaning System and Filters, then System Post Check.
    - The tasks in each section may be completed in the most logical order relevant to the system. Complete the **Service Review** section together with the customer.
- Complete the fields for page numbers at the foot of each selected page
- Add relevant page numbers to selected pages and complete the total number of pages field in the Service Verification section
- Complete Signature Page and attach Signature Page to Service Order.

Additional Instruction Notes

- Preventive maintenance is a factory recommended procedure designed to reduce the likelihood of electromechanical failures. Failure to perform preventive maintenance may reduce the long-term reliability of certain instruments and systems. Two preventative maintenances (PMs) per year are recommended, the Major PM Service will be performed annually with an Interim PM performed 6 months after the Major PM.

Definition of the Task/Recommended items within the document

Task		Recommended			
Yes	No	Interim	Major	As Needed	
✓					Yes selected means that the task was done or the part was required
	✓				No selected means that the task was not done or the part was not required.
		✓			Interim selected means that this task is recommended to be done at 6-month intervals
			✓		Major selected means that this task is recommended to be done yearly; if the customer would like a service to be done at the 6-month interval then the service could be purchased
				✓	As needed selected means that the task was done, or the part was used as needed. For example, there could be two types of filters that could be used, and this was the one selected.

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Instrument Maintenance

Select the appropriate service to be performed.

☐ Interim Preventive Maintenance (when available, is typically 6 months or at the request of the customer)
☑ Major Preventive Maintenance (Yearly)
☐ Enhanced Preventive Maintenance (when available, is provided “As needed”)

System Information

☑ Check this box if an instrument configuration report is attached instead of completing the table.

Instrument System Name and ID	GC 7890A EM-AA-117 (Serial CN13061093)
Instrument System Site and Location	Laboratorio

List System Component Product Numbers	List the Serial Numbers of each Component
1. Ver informe 30677	Ver informe 30677
2.	
3.	
4.	
5.	
6.	

Preparation

☑ Discuss any specific issues with the customer before starting.
☑ Review the instrument logbook for recorded problems and comments.
☑ Save instrument control settings before starting the procedure.
☑ Perform a general inspection of the system for cleanliness.
☑ Check for proper installation of parts, assemblies, sensors etc.
☑ Check system for required installation of components and implementation of Service Notes
☐ Check firmware version(s). Updating to the most current versions is strongly recommended. Verify with the customer before updating.

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Preventive Maintenance Procedures

☐ **Service Not Applicable**

Interim / Major Preventive Maintenance – GCMS

Yes/No		Interim/Major		Description
☐	☐	☑	☑	Perform general inspection of system for cleanliness
☐	☐	☑	☑	Discuss any problems the customer is having with the instrument
☐	☐	☑	☑	Review customer maintenance records and exclude maintenance on recently serviced items
☐	☐	☑	☑	Review the most recent autotune report. This will give a starting point for evaluating spectral peaks, baseline noise, peak shape, mass assignments and resolution.

Interim / Major Preventive Maintenance – System Checks

☐ **Service Not Applicable**

				System Checks
Yes/No		**Interim/Major**		**Description**
☐	☐	☑	☑	Verify that calibration peaks were seen prior to starting the PM
☐	☐	☑	☑	Vent the instrument
☐	☐	☑	☑	Inspect vacuum hoses, pump, exhaust tubing, and power cords for excessive wear.
☐	☐	☑	☑	Visually inspect calibrant levels – PFTBA PFDTD (if appl.), IRM (if appl.). Refill if available.
☐	☐	☑	☑	Look for any obvious external damage or problems.
☐	☐	☑	☑	Clean air intake(s). Cosmetic cover(s) may need to be removed.
☐	☐	☑	☑	Verify system line voltage meets instrument specifications: **Yes** ☐ **No** ☐
☐	☐	☑	☑	For HydroInert systems, verify customer is running hydrogen: **Yes** ☐ **No** ☐

Interim / Major Preventive Maintenance – Wet Mechanical vacuum pumps

☐ **Service Not Applicable**

Yes/No	☐	☐		**Wet Mechanical vacuum pumps**
Yes/No		**Interim/Major**		**Description**
☐	☐	☑	☑	Check for evidence of oil leakage. Check pump gasket for leakage.
☐	☐	☐	☑	GC/MS SQ with diffusion pump; drain and replace diffusion pump oil.
☐	☐	☑	☑	Drain and replace mechanical pump oil.
☐	☐	☑	☑	Replace Oil Mist Filter if applicable.

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Yes/No ☐ ☐				Wet Mechanical vacuum pumps
☐	☐	☑	☑	Discuss with customer the need for more frequent oil changes if the oil is dirty
☐	☐	☑	☑	Don't use mist filters with Chemical Ionization.
☐	☐	☑	☑	Perform anti-suckback valve test. Power on until side plate is held closed, power off and check that side plate holds closed. Visually confirm that no oil returns up vacuum hose.

Interim / Major Preventive Maintenance – Dry Mechanical vacuum pumps - Diaphragm

☐ **Service Not Applicable**

Yes/No ☐ ☐				Dry Mechanical vacuum pumps - Diaphragm
Yes/No		**Interim/Major**		**Description**
☐	☐	☑	☑	Check for evidence of poor vacuum – Turbo power demand, poor manifold vacuum, etc.
☐	☐	☑	☑	Clear air flow paths of dust.
☐	☐	☑	☑	If vacuum is poor, then replace the diaphragm pump.
☐	☐	☑	☑	Perform anti-suckback valve test. Power on until side plate is held closed, power off and check that side plate holds closed.

Interim / Major Preventive Maintenance – Dry Mechanical vacuum pumps - Scroll

☐ **Service Not Applicable**

Yes/No ☐ ☐				Dry Mechanical vacuum pumps - Scroll
Yes/No		**Interim/Major**		**Description**
☐	☐	☑	☑	Replace the tips seal on the IDP pump.
☐	☐	☑	☑	Check for evidence of poor vacuum – Rough vac pressure, turbo power demand, poor manifold vacuum, etc.
☐	☐	☑	☑	Replace the Exhaust Filter if required.
☐	☐	☑	☑	Discuss with customer the need for more frequent changes, if needed.
☐	☐	☑	☑	Inform customer that pump gas ballast should be installed all the time.
☐	☐	☑	☑	Perform anti-suckback valve test. Power on until side plate is held closed, power off and check that side plate holds closed.

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Interim / Major Preventive Maintenance – Cleaning System and Filters

☐ **Service Not Applicable**

				Cleaning System and Filters	
Yes/No		**Interim/Major**		**Description**	
				Fans	
☐	☐	☑	☑		Remove dust from fans and vent covers.
☐	☐	☑	☑		Verify fans are functional and that there is enough space around the instrument for proper cooling.
				Source cleaning (all sources **except** HydroInert)	
☐	☐	☐	☑		Open analyzer and remove the source.
☐	☐	☐	☑		Disassemble, Clean, Re-assemble source. (7200, also, remove and clean entrance lens)
☐	☐	☐	☑		Re-install source and close analyzer.
				HydroInert Source	
☐	☑	☐	☐		Source **NOT** to be abrasively cleaned. No cleaning required at PM. If a decrease in performance is observed, recommend to the customer that filaments, insulators (repeller and extractor), extractor lens, and repeller lens may need to be replaced to restore performance. HydroInert source should not be run with helium carrier.
				Filters	
☐	☐	☐	☑		Replace RMSH-2 Helium gas filter (collision cell gas) – if applicable.
☐	☐	☐	☑		Replace RMSN-2 Nitrogen gas filter (collision cell gas) – if applicable.
☐	☐	☐	☑		Replace RMSHY-2 Hydrogen gas filter (HydroInert and JetClean) – if applicable.
☐	☐	☐	☑		CP17973 – Gas Clean GS/MS Filter (for He, N2 or H2 carrier) – if required
☐	☐	☐	☑		5190-9071 – Methane Gas Filter (CI systems) – if applicable

Guidance: Gas filters need to be changed only if required (ie indicating traps show color change, or if Big Universal Trap are approaching saturation based on time installed or number of gas cylinders changed for that trap)

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Interim / Major Preventive Maintenance – System Post Check

☐ **Service Not Applicable**

				System post-check	
Yes/No		**Interim/Major**		**Description**	
☐	☐	☑	☑	Pump system back down. Wait until system stability has been achieved.	
☐	☐	☑	☑	Verify system vacuum reading(s) via the gauge controller.	
☐	☐	☑	☑	Leak Check	
☐	☐	☑	☑		Verify system in manual tune
☐	☐	☑	☑		Compare against previous tune file report(s)
☐	☐	☑	☑	Change to Tune and verify that all temperatures, pressures, and gas flows reach method set points	
☐	☐	☑	☑	Check manually that you have calibration peaks.	
☐	☐	☑	☑	EI Autotune Performed	

Guidance: If the PM Service is performed prior to a qualification service, then use the qualification procedure as a guide for final instrument setup and checkout.

Service Review

☐ Attach available reports/printouts of all tests to this documentation.
☑ Record the Preventive Maintenance service activity in the customer's records/logbook.
☑ Record the PM event in the Smart Alerts logbook, if applicable.
☑ Update/reset instrument maintenance counters as appropriate.
☑ Affix the PM sticker to the system or instrument logbook based on the customer's request.
☑ Complete the Service Engineer Comments section if there are additional comments.
☑ Review this service, parts replaced, and test results obtained with the customer.
☐ If the instrument firmware was updated, record the details of the change in the Service Engineer's Comments box. Systems in a compliant environment may need additional documentation.
☑ Complete Signature Page and attach Signature Page to Service Order.

Test Results

Test Description	Expected Test Result	Actual Test Result

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Signature Page

Service Engineer Comments (optional)

If there are any specific points you wish to note as part of performing the service review or other items of interest for the customer, please write in this box.

El instrumento queda operando de acuerdo con los parámetros de aceptación establecidos por el fabricante.

Service Verification

Service Request Number:

30677

Date of Service Completion:

04 Nov 2025

Service Engineer Name:

Lesther Carrillo

Customer Name:

Service Engineer Signature:

Lesther Carrillo

Total number of pages in this document:

10

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Parts for consumption during PM

Common Oil and MS Gas Filters – 5973/5975/5977/7000/7010/7200/7250 Series

Part Description	Part Number	Interim	Major	As Needed
Agilent AVF Platinum, 1 quart	5191-5851	✓	✓	✓
Helium gas filter* (collision cell gas) – if required	RMSH-2		✓	✓
Nitrogen gas filter*(collision cell gas) – if required	RMSN-2		✓	✓
Hydrogen gas filter* ^ (HydroInert and JetClean) – if required	RMSHY-2		✓	✓
Chemical Ionization Gas Purifier (CI systems) (Methane) – if required	5190-9071		✓	✓
Gas Clean GS/MS Filter (for He, N2 or H2) – if required	CP17973		✓	✓
# Gas Clean Filter Kit GC/MS 1/8 in (complete replacement kit - bench mounted) – if required	CP17974			✓
# Gas Clean Carrier Gas Kit for 7890 for He, N2 or H2; Bracket, Mount and Filter – if required	CP17988			✓
# Gas Clean Carrier Gas Kit for 8890 & 8860 for He, N2 or H2; Bracket, Mount and Filter – if required	CP179880			✓

Gas filters need to be changed only if required (ie indicating traps show color change, or if Big Universal Trap are approaching saturation based on time installed or number of gas cylinders changed for that trap)

* Big Universal Trap (BUT), 1/8” fittings
^ HydroInert and JetClean Systems
# Alternate Gas Clean kit part numbers. A Gas Clean filter is included in the kits. They are only necessary if replacing carrier gas Big Universal Traps with indicating traps

MS Maintenance Supplies for 5973/5975/5977 Series

Part Description	Part Number	Interim	Major	As Needed
Diffusion pump fluid (Diffusion Pump Models)	6040-0809 Qty 2		✓	✓
Exhaust oil mist trap (threaded) Edwards/Pfeiffer	G1099-80039	✓	✓	✓
DS42 Oil Mist Eliminator 3/4G & 3/8	SR03706556	✓	✓	✓
IDP-3 Tip Seal Replacement Kit (IDP-3 Dry Scroll Pump Models – Includes tip seal, 60mm filter element, tools, mask and cleaning supplies)	G7077-67018	✓	✓	✓
IDP-3 Tip Seal Replacement Kit (no tools – CSD P/N)	5190-9561	✓	✓	✓
IDP-3 Tip Seal Replacement Kit (no tools – VPD P/N)	IDP3TS	✓	✓	✓
Filter element for IDP-3 (diameter: 60mm)	REPLSLRFILTER2	✓	✓	✓

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MS Maintenance Supplies for 7000/7010 Series

Part Description	Part Number	Interim	Major	As Needed
Oil Mist Filter RV5	G6600-80043	✓	✓	✓
IDP-10 Tip Seal Replacement Kit (IDP-10 Dry Scroll Pump Models – Includes tip seal, 102mm filter element, tools, mask and cleaning supplies)	G7004-67023	✓	✓	✓
IDP-10 Tip Seal Replacement Kit (no tools etc. – VPD P/N)	X3807-67000	✓	✓	✓
Filter element for IDP-10/IDP15 (diameter: 102mm)	REPLSLRFILTER	✓	✓	✓
Filter element for IDP-10/IDP15 (diameter: 79mm)	REPLSLRFILTER1	✓	✓	✓

MS Maintenance Supplies for 7200/7250 Series

Part Description	Part Number	Interim	Major	As Needed
RIS Probe Maintenance Kit (7200 Series only)	G7005-60170		✓	✓
DS202 Oil Mist Eliminator	SR03706800	✓	✓	✓
DS202 3/8' Magnetic Plug and Gasket	SR03701824	✓	✓	✓
IDP-15 Tip Seal Replacement Kit (IDP-15 Dry Scroll Pump Models – Includes tip seal, 102mm filter element, tools, mask and cleaning supplies)	5190-9613	✓	✓	✓
IDP-15 Tip Seal Replacement Kit (no tools etc.– VPD P/N)	X3815-67000	✓	✓	✓
Filter element for IDP-10/IDP15 (diameter: 102mm)	REPLSLRFILTER	✓	✓	✓
Filter element for IDP-10/IDP15 (diameter: 79mm)	REPLSLRFILTER1	✓	✓	✓

HydroInert Source Supplies

To determine if replacement of HydroInert parts is required, please review tune history and sample signal intensity performance. If performance is decreasing, the below parts maybe use to restore performance as part of the PM.

One way to determine if the source performance on SQ is being affected is to review the gain factor history in autotune reports or tune history csv file. If the gain factor is increasing the source performance maybe degrading.

Since TQ tunes to a fixed gain factor, review PFTBA abundance. If PFTBA abundance is decreasing over time, the source performance maybe degrading.

Real sample/standard area counts are another way to determine the performance, there could also be other factors that affect compounds abundance such as inlet and column status.

Part Description	Part Number	Interim	Major	As Needed
Repeller Insulator (qty 2)	G1099-20133			✓
Lens insulator for Extractor (ring insulator)	G3870-20445			✓
HydroInert Extractor lens (9mm)	G7078-20909			✓
HydroInert Repeller	G7078-20902			✓

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Common Parts Reference (Purchased by customer, not included as part of PM)

Filaments and Calibrant Supplies 5973/5975/5977/7000/7010/7200/7250 Series

Part Description	Part Number	SQ	TQ	QTOF
EI High Temperature Filaments	G7005-60061 Qty 2	597X	7000x	N/A
HES, HES 2.0 EI Filaments	G7002-60001	5977B/C	7010x	N/A
HES 2.0 EI Filament Spacer	G7007-20023	N/A	7010x	N/A
LE-EI Filaments (7250 QTOF)	G3850-60021	N/A	N/A	7250
CI High Temperature Filament – SQ, TQ, 7200 QTOF	G7005-60072	N/A	N/A	7200A/B
Axial CI Filament, W/Re Straight (7250 QTOF)	G7250-60095	N/A	N/A	7250
PFTBA GCMS Tuning Standard calibrant	05971-60571	597X	70X0	72X0
PFDTD calibrant, 1 mL	8500-8510	597X	70X0	72X0
PFET, IRM calibrant for GC QTOF 0.5 mL (7200)	5190-0531	N/A	N/A	7200A/B

Transfer line seals and springs 5973/5975/5977/7000/7010/7200/7250 Series

Part Description	Part Number	SQ	TQ	QTOF
CI Interface tip seal (ceramic tip and spring combo) (non-captured CI tip seal interface) (5973, 5975, 7000B)	G1999-60412	5973, 5975	7000B	N/A
CI Interface tip seal (ceramic tip and spring low/non-magnetic spring combo) (non-captured CI tip seal interface) (7010A)	G7002-60412	N/A	7010A	N/A
CI Interface tip seal spring (spring only)	G1999-20023	597X	70X0	72X0
CI Interface tip seal (tip only) (captured style)	G3870-20542	5977x	70X0	72X0
Transfer-Line Tip Base, Threaded (captured style)	G3870-20548	5977x	70X0	72X0
Transfer-Line Tip Cap, Threaded (captured style)	G3870-20547	5977x	70X0	72X0
RIS Xfer Tip (7200)	G7005-20542	N/A	N/A	7200A/B
RIS Xfer Tip Spring (7200)	G7005-20024	N/A	N/A	7200A/B

MS Maintenance Supplies for Intuvo 9000 MS Series

Part Description	Part Number	SQ	TQ	QTOF
Swaged MS Tail - Packaged	G4590-60009	5977x	7000	N/A
Swaged MS Tail (HES, HES 2.0) - Packaged	G4590-60109	5977x	7010x	N/A

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Ion source insulators for 5973/5975/5977/7000/7010/7200/7250 Series

Part Description	Part Number	SQ	TQ	QTOF
Repeller insulator (SQ, TQ)	G1099-20133 Qty 2	597X	7000x	N/A
Lens insulator for extractor lens (ceramic ring insulator) (Extractor source)	G3870-20445	5977x	7000C/D/E	N/A
Lens insulator for Extractor lens (Vespel ring insulator) (7000B extractor ion source)	G7000-20445	N/A	7000B only	N/A
Lens stack insulator for SS, Inert, Extractor sources (captures ion focus and entrance lens) (Vespel)	G3170-20530	597X	7000x	N/A
Lens insulator for Extractor lens for HES/HES 2.0/LEEI (ceramic ring insulator)	G7002-20064	5977B/C	7010x	7250
Lens stack insulator/holder for HES/LLEI (Vespel)	G7002-20074	5977B/C	7010x	7250
Lens stack insulator/holder for HES 2.0 (Vespel)	G7007-20074	N/A	7010x	N/A
CI Repeller Lens Insulator (SQ, TQ)	G1999-20433	597X	70X0x	N/A
CI Lens stack insulator (SQ, TQ) (Vespel)	G3170-20540	597X	70X0x	N/A
Repeller insulator (7200 RIS) (Ceramic)	G7005-20447	N/A	N/A	7200A/B
Extractor Lens Insulator (7200 RIS) (Vespel)	G7005-20133	N/A	N/A	7200A/B
Ion Focus Insulator (7200 RIS) (Vespel)	G7005-20442	N/A	N/A	7200A/B
CI Repeller Insulator/bushing (7200 RIS) (Ceramic)	G7005-20030	N/A	N/A	7200A/B

HydroInert coated lenses for 5977/7000 Series

Part Description	Part Number	SQ	TQ	QTOF
HydroInert Repeller	G7078-20902	5977x	7000C/D/E	N/A
Ext Source Body – HydroInert	G7078-20903	5977x	7000C/D/E	N/A
HydroInert Extractor lens (9mm)	G7078-20909	5977x	7000C/D/E	N/A
Ion Focus Lens – HydroInert	G7078-20905	5977x	7000C/D/E	N/A
Entrance Lens – HydroInert	G7078-20904	5977x	7000C/D/E	N/A

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Heater/Sensor assemblies for 5973/5975/5977/7000/7010/7200/7250 Series

Part Description	Part Number	SQ	TQ	QTOF
Stainless Steel Heater/Sensor assembly (SST EI 350)	G3870-67180	597X	N/A	N/A
Inert Heater/Sensor assembly (inert EI 350)	G3870-67179	597X	7000A/B	N/A
Extractor Heater/Sensor assembly (Xtr EI 350)	G3870-67177	5977x	7000C/D/E	N/A
H2 EI Heater/Sensor Assembly – HydroInert (H2 EI 350)	G7078-67910	5977x	7000C/D/E	N/A
CI 350 Heater/Sensor Assembly (CI 350)	G3870-67415	597X	70X0x	N/A
Ring heater/sensor assembly (HES, HES 2.0, RIS and LEEI) (ceramic ring)	G7002-60058	5977B/C	7010x	72X0

Rough pump hoses 5973/5975/5977/7000/7010/7200/7250 Series

Part Description	Part Number	SQ	TQ	QTOF
Foreline Hose - imbedded spring	G7077-60119	597X	70X0x	72X0

Common MS Maintenance Supplies

Part Description	Part Number	SQ	TQ	QTOF
Abrasive paper, 30 µm	5061-5896	597X	70X0	72X0
Alumina powder	393706201	597X	70X0	72X0
Cloths, clean (pkg of 15)	05980-60051	597X	70X0	72X0
Cloths, cleaning (pkg of 300)	9310-4828	597X	70X0	72X0
Cotton swabs (pkg of 100)	5080-5400	597X	70X0	72X0
Gloves, clean, large	8650-0030	597X	70X0	72X0
Gloves, clean, small	8650-0029	597X	70X0	72X0

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