

		<b>GE Power &amp; Water</b> Distributed Power
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<b>Service Technician Instruction</b>	<b>ST-174</b>	14 April 2015

Engine type            **J412**

Subject                **Recommended spare parts list**  
**J412**

**Service Technician Instruction ST-174 defines spare parts and consumables that are expected to be required for Type J412 engines during a two year period of operation. The list has been designed to support regional service organizations to ensure spare parts availability for planned and unplanned maintenance and reduce engine downtime in order to meet our customers' expectations (parts on site within 48h max).**

**AFFECTED ENGINES / SCOPE OF THIS BULLETIN**

Type J412 engines / Recommended spare parts list for a two year period of operation

**This list is based on Product Program 2015.**

**DESCRIPTION OF THE CONTENT**

Scope of defined spare parts is expected to be required during the first 2 years of operation of an engine assuming 8000hrs per year (and less than 4000 starts).

The reported quantity is recommended for a single engine; actual consumption might deviate based on local conditions (air quality, gas quality, ambient conditions, etc.).

This spare parts list is made to the best knowledge at the time of issuing of GE and does, neither on its own nor in connection with a purchase contract, create any legal obligation for or a warranty of GE.

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Part numbers 412 for recommended spare part list				
Service p/n	Description	Single Engine	Fleet Engine ( $\geq 4$ engines)	additional information
<b>This list is based on the current product program and is not mandatory appropriate for all engines.</b>				
<b>Ignition and Elastic Parts for Electric Components</b>				
341015	spark plug	12	50	GE-Jenbacher <b>P7.1V5</b>
462199	spark plug	12	50	GE-Jenbacher <b>P3.V3N1</b>
639753	spark plug	12	50	GE-Jenbacher <b>P3.V5N1</b>
376475	o-ring	12	50	for spark plug sleeve
487181	ignition coil	6	10	
657540	spark plug connector	6	10	
599772	Moris Power Modul	1	2	
652092	Safi 2 Modul	3	10	lower part of 9008132
641947	Thermocouple	3	6	lower part of 9008132
100639	Sealing ring	12	12	lower part of 9008132
9008292	Knock sensor	3	6	lower part of 9008132
487195	Moris rail A front end	1	2	lower part of 9008132
487346	Moris rail B front end	1	2	lower part of 9008132
487198	Moris rail A tail end	1	2	lower part of 9008132
487347	Moris rail B tail end	1	2	lower part of 9008132
487207	Moris rail middle piece	3	6	lower part of 9008132
104239	Spout			
369246	Sleeve			
311901	Sleeve			
<b>Oil Filter</b>				
631265	oil filter cartridge	5	10	
162817	O-ring	5	10	
<b>Suction Line (Control Linkage - Throttle Valve - Actuator - Intercooler - Bypass-Line)</b>				
101885	Tensioning nut	1	1	lower part of 465240
341497	Rod	1	1	lower part of 465240
341498	Rod	1	1	lower part of 465240
342938	Handle	1	1	lower part of 465240
478633	Handle	1	1	lower part of 465240
449408	Link	1	1	lower part of 465240
449407	Link	1	1	lower part of 465240
101812	Hexagonal nut	1	1	lower part of 465240
101820	Hexagonal nut	2	2	lower part of 465240
101815	Hexagonal nut	3	3	lower part of 465240
100456	Hexagonal head screw	1	1	lower part of 465240
100459	Hexagonal head screw	1	1	lower part of 465240
101931	Disc	7	7	lower part of 465240
101879	Lock nut	2	2	lower part of 465240
100419	Hexagonal head screw	1	1	lower part of 465240
100192	Cylinder screw	2	2	lower part of 465240



101714	Lock nut	2	2	lower part of 465240
<b>Intercooler for item 9011908</b>				used sealings, screws and washers depend on used mix cooler lid, mix cooler lid may be different for some engines
326947	Sealing	1	1	lower part of 382939
326970	Sealing	1	1	lower part of 382939
115244	Cylinder screw	34	34	lower part of 382939
115245	Cylinder screw	37	37	lower part of 382939
101972	Disc	71	71	lower part of 382939
325386	Spring dowel	13	13	lower part of 382939
303923	Sealing	3	3	lower part of 9011908
115243	Cylinder screw	26	26	lower part of 9011908
303950	Cylinder screw	20	20	lower part of 9011908
101055	Stud bolt	4	4	lower part of 9011908
339501	Stud bolt	2	2	lower part of 9011908
101815	Hexagonal nut	6	6	lower part of 9011908
101244	Cylinder screw	1	1	lower part of 9011908
102162	Disc	2	2	lower part of 9011908
<b>Intercooler for item 628743 (hot countries)</b>				
624985	Sealing	1	1	lower part of 624019
624986	Sealing	1	1	lower part of 624019
115249	Cylinder screw	47	47	lower part of 624019
101616	Cylinder screw	44	44	lower part of 624019
101615	Cylinder screw	4	4	lower part of 624019
325386	Spring Dowel	12	12	lower part of 624019
303923	Sealing	2	2	lower part of 628743
102162	Disc	2	2	lower part of 628743
115243	Cylinder screw	26	26	lower part of 628743
101384	Cylinder screw	22	22	lower part of 628743
101386	Cylinder screw	4	4	lower part of 628743
100187	Cylinder screw	6	6	lower part of 628743
101615	Cylinder screw	6	6	lower part of 628743
101244	Cylinder screw	1	1	lower part of 628743
456745	throttle valve shaft sealing	2	4	
<b>Crank case ventilation - Carburetor</b>				
9010633	blowby filter	1	5	for blow-by system TL636598
223635	fabric	2,8	2,8	for intake air pipeline TL487194
<b>Water Pump</b>				
401920	water pump	1	1	5Hz - 230-415V; <b>check pump version on side!</b>
<b>Turbocharger sealing set (TPS 48)</b>				
401956	Sealing	1	1	exhaust gas before turbocharger
302310	Hexagonal head screw	4	4	exhaust gas before turbocharger
302307	Hexagonal nut	4	4	exhaust gas before turbocharger
222073	Hexagonal nut	12	12	exhaust gas after turbocharger



131973	O-ring	1	1	mixture before turbocharger
100446	Hexagonal head screw	4	4	mixture before turbocharger
403878	Sealing	1	1	mixture after turbocharger
100302	Hexagonal head screw	4	4	mixture after turbocharger
101823	Hexagonal nut	4	4	mixture after turbocharger
209281	O-ring	1	1	oil supply turbocharger inlet
105751	O-ring	1	1	oil supply turbocharger outlet
114967	Hexagonal head screw	2	2	fixing turbocharger installation
139977	Filler ring	2	2	fixing turbocharger installation
<b>Various Engine Parts</b>				
Cylinder Head				
1204113	Cylinderhead	4	4	
306099	Exhaust sealing	25	25	per cylinder
100214	Cylinder screw	4	4	per cylinder
100452	Hexagonal head screw	2	2	per cylinder
102162	Disc	2	2	per cylinder
225040	O-ring	2	5	per cylinder
622226	O-ring	2	5	per cylinder
290213	Sealing	12	50	per cylinder
101244	Cylinder screw	2	2	per cylinder
376488	O-ring	2	5	per cylinder
456732	O-ring	2	5	per cylinder
449902	Cylinder pin	3	3	per cylinder
100092	Sealing	10	30	per cylinder
300805	O-ring	6	12	per cylinder
557647	Sealing	12	50	per cylinder, for cylinder head cover
100315	Hexagonal head screw	2	2	per cylinder, for cylinder head cover
102145	Spring washer	2	2	per cylinder, for cylinder head cover
Power unit				
Piston Epsilon=13,5				
642835	Piston cpl. with rings	1	2	per cylinder
277853	Piston pin	1	2	per cylinder
277937	Snap ring	2	4	per cylinder
Piston Epsilon=12,5				
642825	Piston cpl. with rings	1	2	per cylinder
277853	Piston pin	1	2	per cylinder
277937	Snap ring	2	4	per cylinder
Piston Epsilon=11,8 check oil control ring for piston				
642840	Piston cpl. with rings	1	2	per cylinder
277853	Piston pin	1	2	per cylinder
277937	Snap ring	2	4	per cylinder
Piston Epsilon=11,8 check oil control ring for piston				



642837	Piston cpl. with rings	1	2	per cylinder
277853	Piston pin	1	2	per cylinder
277937	Snap ring	2	4	per cylinder
	<i>Attention, don't use for Oversize1 and Oversize2 fitting!</i>			
448556	liner	1	2	per cylinder
421782	scraper ring (nur für Buchse 448556)	1	2	per cylinder
448559	cylinder head gasket	10	10	per cylinder
351228	Conrod bearing	1	2	per cylinder
<b>Gasket</b>				
see additional	set of engine gaskets			
<b>Relais, Fuse, Bus</b>				
set of fuses			gG 16A:117789; gG 10A:117788; gG 6A:117785; F 0,2A: 110630; T 3,15A 478341; T 6,3A 401055;	
117789	D-fuse plug	3	3	
117788	D-fuse plug	3	3	
117785	D-fuse plug	3	3	
110630	G-fuse plug	3	3	
478341	G-fuse plug	3	3	
401055	G-fuse plug	3	3	
set of relais			1 pol 363865; 3 pol 350960; 4 pol 584729; NAIS 450901	
363865	Relay..1-pole	3	3	
350960	Relay..3-pole MT	3	3	
584729	Relay..HJ 4-pole	3	3	
450901	Relay	3	3	
set of IO cards			X20DI9371 1201686, X20DO9322 1201695, X20AI4622 1201697, X20AO4622, X20AT6402 1201698, X20AT4222 1201699	
1201686	Digital input	1	2	
1201695	Digital output	1	2	
1201697	Analog input	1	2	
1201698	Analog input	1	2	
1201699	Analog input	1	2	
1201684	Interface	1	2	Service part of X20 Bustransmitter
1201683	Interface	1	2	Service part of X20 Busreceiver
MMU Synch		2		
1211730	Transducer for RPS >= 3.30	1	1	
436420	Transducer for RPS < 3.30	1	1	
	net decoupling relays			plant specific
<b>Sensor</b>				
641947	thermocouples exhaust	6	10	lower part of 9008132
415442	p2 pressure sensor	1	2	
179609	Thermometer	1	2	8 meters, not for container
1212469	Thermometer	1	2	15 meters, for container
285283	pressure sensor water	1	2	
285283	pressure sensor oil	1	2	



607323	PT100 sensor	1	2	
<b>pick up</b>				
pick up set				
502884	Pulse generator	1	1	lower part of 9008132
200673	Pulse generator	1	1	lower part of 9008132
<b>plant</b>				
Air filter				
642704	bag filter	1	5	
642705	bag filter	1	5	
Water pipes				
101790	Sealing	10	20	
578691	Sealing	5	10	
Oil pipes				
104077	Elbow fitting	1	1	
100900	Straight screw connection	1	1	
104233	Hose pipe	1	1	
104206	Hose pipe	1	1	
110405	Reducing nipple	1	1	
100955	Elbow fitting	1	1	
100895	Straight screw connection	1	1	
106946	Hose pipe	1	1	
101208	Straight screw connection	1	1	
309617	Pipe bracket / pipe clamp	1	1	
100422	Hexagonal head screw	1	1	
101815	Hexagonal nut	1	1	
110966	Disc	2	2	
101812	Hexagonal nut	1	1	
100924	Straight screw connection	1	1	
101208	Straight screw connection	1	1	
632855	Metal hose	2	2	
100953	Elbow fitting	1	1	
115726	T fitting	1	1	
328258	Check valve	1	1	
101205	Straight screw connection	1	1	
<b>Heater hose</b>				
106946	Hose pipe	1	1	
100924	Straight screw connection	1	1	
221149	Elbow fitting	1	1	
<b>Safety valve</b>				
436833	Safety valve	2	2	not more than two valves necessary for all plants
117276	Elbow fitting			
<b>Actuators</b>				
340597	actuator	1	1	
471384	turbobypass valve	1	1	



101790	sealing	2	2	
100587	Hexagonal head screw	16	16	
101829	Hexagonal nut	16	16	
<b>Expansion vessel</b>				
405639	Expansion vessel	1	1	
<b>TecJet</b>				
471386	TecJet	1	1	please check on side
369910	TecJet	1	1	please check on side



**REVISION CODE**

INDEX	DATE	DESCRIPTION / REVISION SUMMARY
01	Apr. 14, 2015	First version of this document

**Table:** Revision history