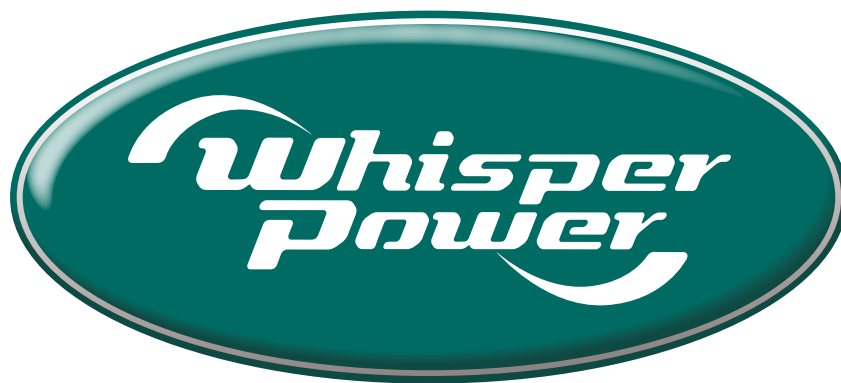
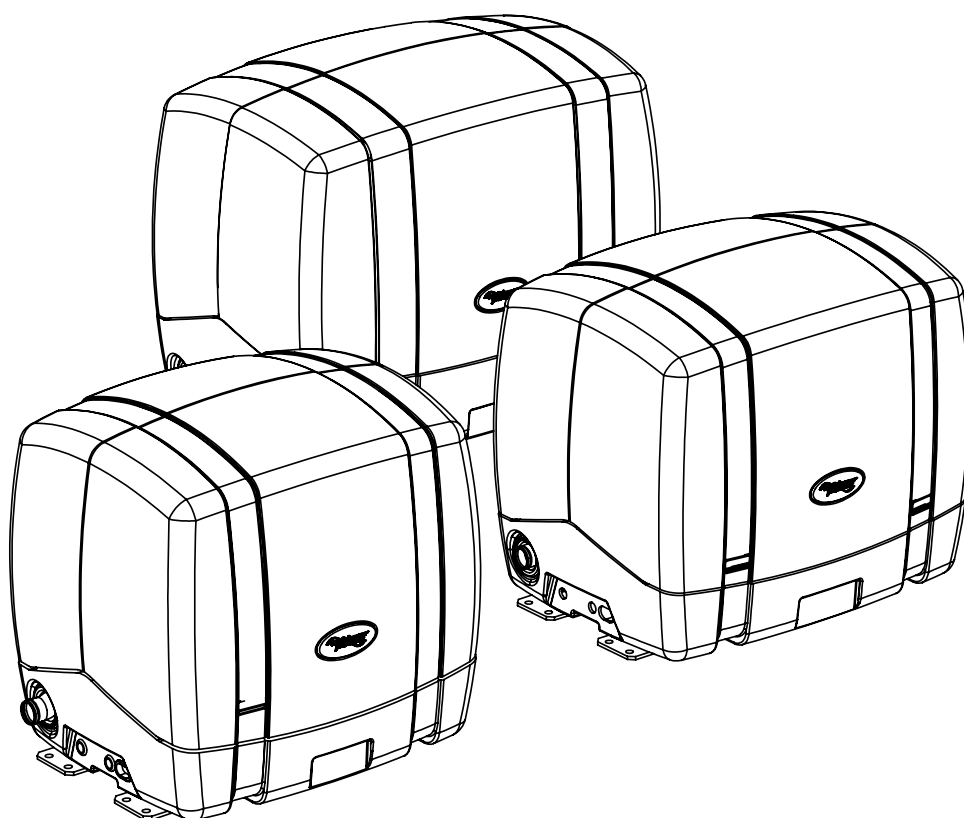




Spare Parts Manual

PICCOLO 8 - Z482

Genverters for Marine Use

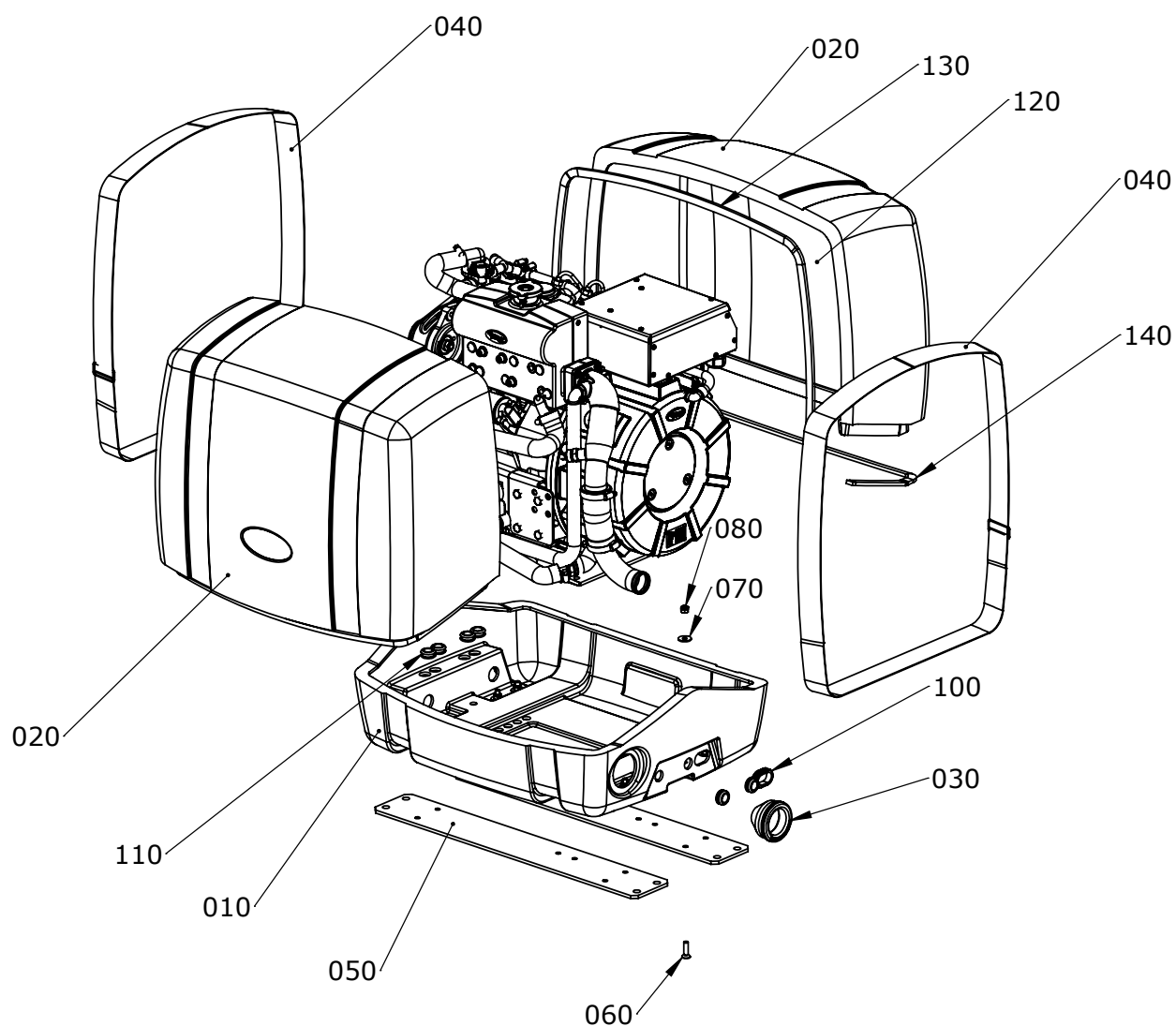


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1. Canopy



No.	WP Art.	WP art. Description	Qty.	Remarks
030	50230593	Exhaust Pipe flash exhaust 33mm Silicone (Dry - Wet)	1	
020	40402006	Canopy GV-2 kubota	2	
040	50222128	Lashing strap Canopy Piccolo GV8 - GV10	2	
010	40402006	Base GV-2 Kubota	1	
050	40403047	Strip foundation Piccolo GV2	2	
060	50211539	ISO 10642 - M8 x 30 - 30N	12	
080	50211475	Self-locking hexagon nut with plastic ring DIN 985	8	
070	50211436	Fender Washer 8X25X1,25	8	
100	50209080	Grommet oval	2	
110	50209086	Grommet 21x16x5	6	
120	50222019	Foam 20mm Canopy Piccolo set GV8	2	
130	50222005	Neoprene Seal Preglued 15 x 8mm P-M	1	

2. Lubricants

WPL-10w40 General

Der starke Allrounder unter den Schmiermitteln

WPL-General, unser qualitativ hochwertiges Mehrzweck Synthetiköl für Benzin- und Dieselmotoren der neuen Generation. Schützt den Motor vor übermäßiger Abnutzung, Korrosion und bei hohen Betriebstemperaturen. Ermöglicht einen sanften Start des Motors auch bei tiefen Temperaturen. Geeignet für einen 24/7 Betrieb. Mit WPL-General bleiben Motor und Öl in gutem Zustand. Minimale Verschleißerscheinungen bei widrigsten Umständen. WPL-General Öl enthält synthetische Stoffe, die Kaltstarts ermöglichen und dabei auch noch Kraftstoff und Öl durch weniger Vaporisation sparen. WPL-General Öl schützt die Kolben und Motorenteile. WhisperPower empfiehlt WPL 10W40 General Öl für Neuinstallationen und bereits verbaute Anlagen. WPL-General - ein echter Allrounder!



WPL-10w40 Premium LD

Langzeitöl für längere Serviceintervalle

WPL-Premium LD ist ein synthetisches Motorenöl, das den Ansprüchen von Hochleistungs-Dieselmotoren gerecht wird. Es hat ein überragendes Verhalten zum Schutz vor Oxidation und hohen Temperaturen. Sparen Sie Kraftstoff mit WPL-Premium LD. Vergrößern Sie Ihre Betriebskostensparnis durch den Gebrauch von Premium LD und minimieren Sie Ihre Wartungskosten. WhisperPower empfiehlt den Einsatz von Premium LD bei neuen Generatorinstallationen. Die speziellen Additive des WPL-Premium LD halten Öl und Motor sauber. WPL-Premium LD Langzeitöl kann auch verwendet werden, wenn ein langer Abstand zwischen einzelnen Serviceintervallen liegen muß. Die Verwendungszeit des Öls ist abhängig von Umgebungsbedingungen und Filtrationsverfahren. Bitte kontaktieren Sie Ihren WhisperPower Händler für weitere Informationen.

WPL-10w40 General

Technische Daten

Dichte bei 20°C	Kg/L	0,871
Viskosität bei 100°C	cSt	14,9
Viskosität bei 40°C	cSt	99,7
Viskosität bei -25°C	cP	<7.000
Viskositätsindex		156
Flammpunkt	°C	216
Pour Point	°C	-36
Sulfatasche	Gew%	1,37

Art.-Nr.	Bezeichnung
40222204	WPL-10w40 General 4 liter
40222201	WPL-10w40 General 1 liter

WPL-10w40 Premium LD

Technische Daten

Dichte bei 20°C	Kg/L	0,866
Viskosität bei 100°C	cSt	15
Viskosität bei 40°C	cSt	102,4
Viskositätsindex		153
Viskosität bei -25°C	cP	<7.000
Flammpunkt	°C	216
Pour Point	°C	-36
Sulfatasche	Gew%	1,6
TBN (Total Base Number)	mgKOH/g	12,5

Art.-Nr.	Bezeichnung
40222224	WPL 10w40 Premium LD 4 liter

WPL-Coolant

WPL-Coolant wurde speziell für die neue Generation für Kühlsystemen moderner Motoren entwickelt. WPL-Coolant basiert auf Ethylenglykol und verhindert dadurch Kalkablagerungen und bietet exzellenten Schutz gegen Kavitationen. Außerdem schützt es alle Metalle im System vor Korrosion, insbesondere Eisenlegierungen, auch bei hohen Temperaturen. WPL-Coolant schützt vor Einfrieren des Kühlsystems bis -36°C und enthält umweltfreundliche Additive (Carboxyl). Diese Technologie ist als OAT (Organic Acid Technology) bekannt geworden. WPL-Coolant ist sofort einsatzbereit, daher mischen Sie es nicht mit Wasser. Die Verwendungszeit beträgt etwa 5 Jahre oder 500 Betriebsstunden, je nachdem was eher eintritt. WPL-Coolant enthält keine Nitrate, Amine, Borate, Phosphate oder Silikate und ist kompatibel mit normalen Kühlmitteln.



WPL-Coolant

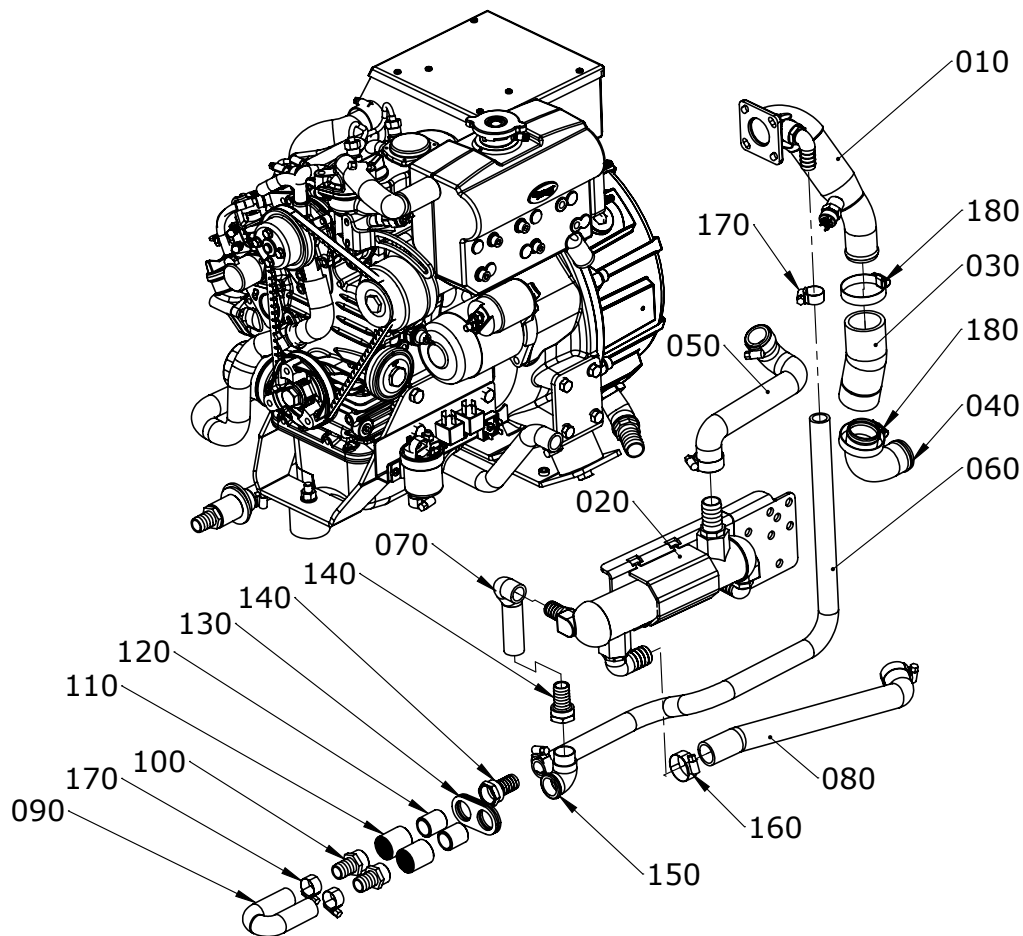
Technische Daten

Gewicht bei 20°C	Kg/L	1,07
Wasseranteil	Gew%	max. 53
pH-Wert		7,0 - 7,6
Gefrierpunkt	°C	-36 °C ± 2
Reserve-Alkalinität		5

Art.-Nr.	Bezeichnung
40222214	WPL-Coolant 4 liter

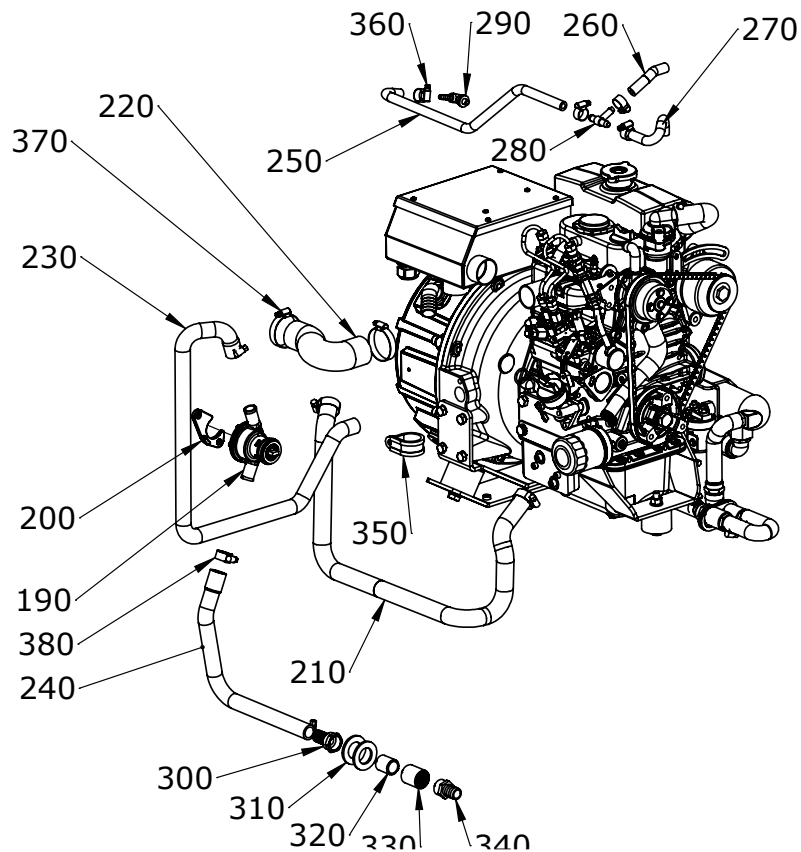
3. Water

3.1. Cooler side



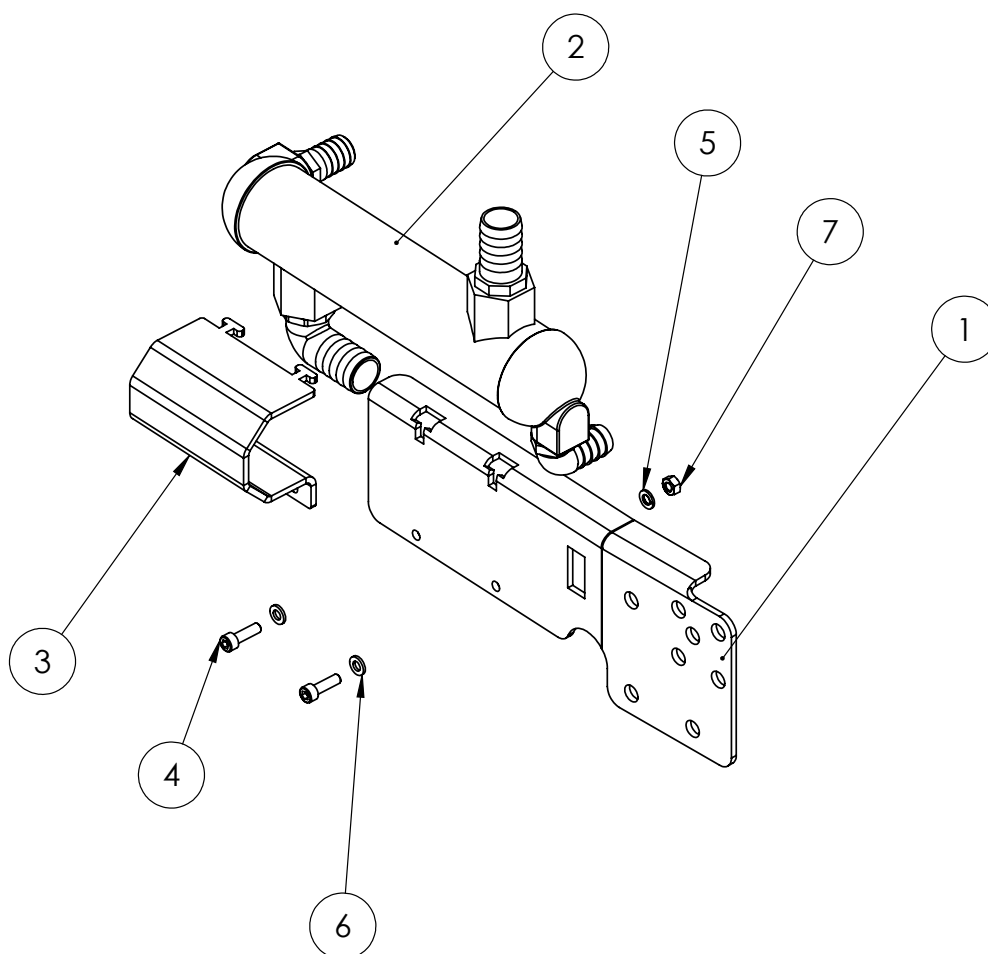
No.	WP Art.	WP art. Description	Qty.	Remarks
010	40261845	Exhaust injection assy K2-K3 Polyester	1	
020	40401840	Cooler Piccolo assy 2-3 Cyl	1	see 3.3
030	50220033	Marine hose 40mm GV (poly)	1	
040	50230079	Elbow Exhaust 40 Stainless	1	
050	50220138	Hose manifold - cooler GV	1	
060	50220133	Hose Cooler to exhaust Piccolo 8	1	
070	50220130	Hose Siphon Piccolo	1	
080	50220137	Hose Heat exchanger to Generter	1	
090	50220132	Siphon hose Piccolo	1	
100	50221004	Hose Connector M 3/4" x 20mm	3	
110	50221095	Equal Socket F 3/4"	3	
120	50221123	Nipple 3/4"	3	
130	NOT_REQUIRED	Cover plate hoses Piccolo	2	
140	50221022	Hose pillar 3-4x20 bi	3	
150	50221083	90 Elbow M-F 3/4	1	
160	50221503	Hose clamp stainless 25-35mm	6	
170	50221502	Hose clamp stainless 20-32mm	13	
180	50221504	Hose Clamp Stainless Steel 50mm	4	

3.2. Pump side



No.	WP Art.	WP art. description	Qty.	Remarks
190	40401870	COOLING WATER PUMP COMPLETE K2-3 ASSY	1	see 3.4
200	40401815	Clamp water pump Kubota PTO	1	
210	50220102	Hose cooling pump generator in K2 - K3 Mob-Mar	1	
220	50220087	Hose air inlet 2 & 3 cyl Kubota	1	
230	50220131	Hose waterpump Piccolo	1	
240	50220136	Hose rough water in GV2-3-3plus	1	
250	50220134	Hose 1 Bypass fuel hose 5-16 inch	1	
260	50220063	Hose 2 bypass fuel hose 5-16 inch	1	
270	40403509	Hose 3 bypass fuel hose 5-16 inch	1	
280	50221354	T-Piece hose connector 8-8-8MM	1	
290	50221028	Knee outer thread 1-8 hose 8mm	1	
300	50221022	Hose pillar 3-4x20 bi	3	
310	50211416	Plain washer DIN 125-1A Stainless steel A2 M27	2	
320	50221123	Nipple 3/4"	3	
330	50221095	Equal Socket F 3/4"	3	
340	50221004	Hose Connector M 3/4" x 20mm	3	
350	50221599	HOSE SUPPORT STAINLESS 35X12 MM	1	
360	50221522	Hose Clamp RVS 16	4	
370	50221504	Hose Clamp Stainless Steel 50mm	4	
380	50221502	Hose clamp stainless 20-32mm	13	

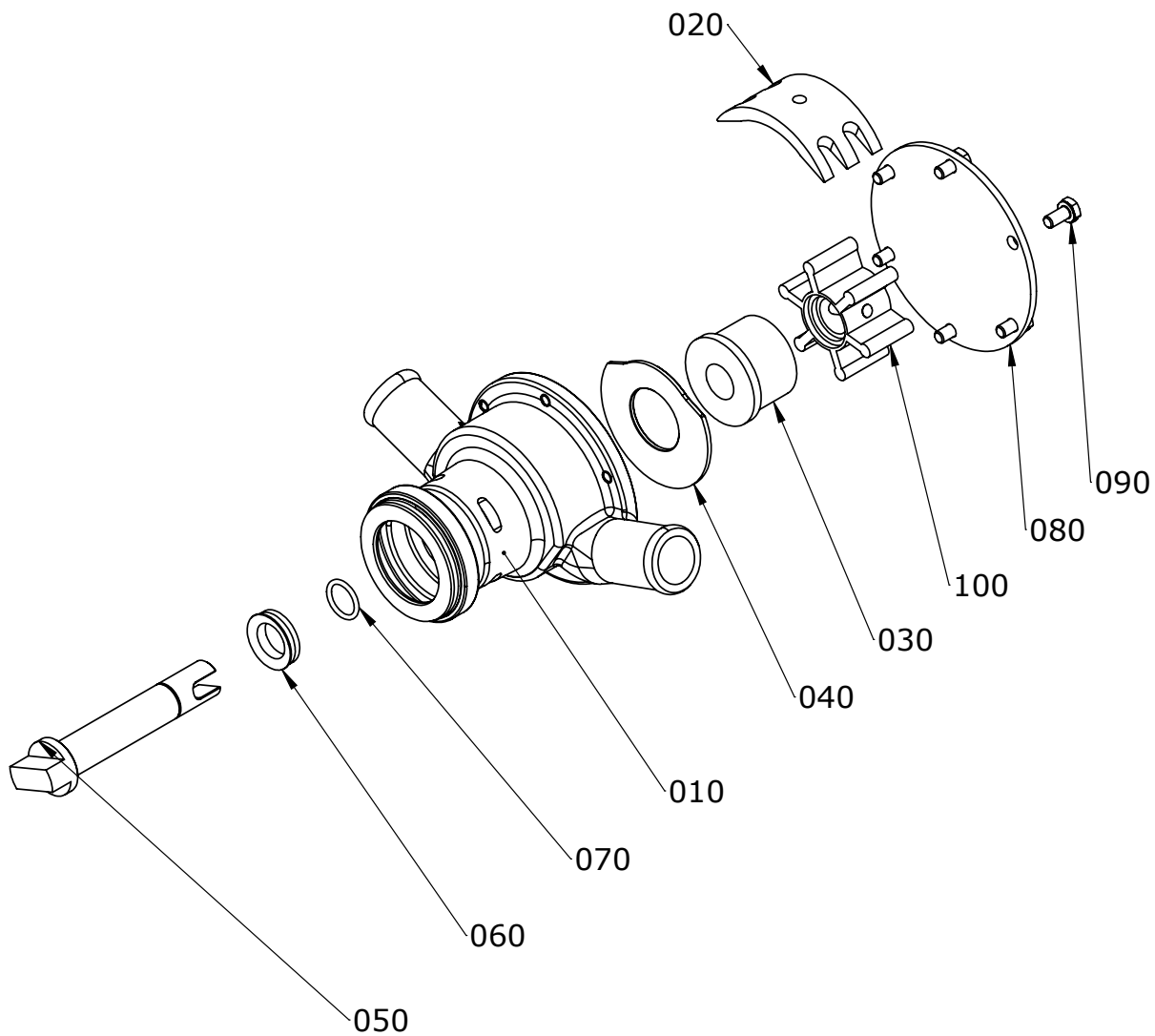
3.3. Cooler Piccolo 2-3 Cylinder



WP Art. Nr. Cooler Piccolo 2 -3 cyl. 40401840

No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
1	40401893	Support cooler Piccolo	1	
2	40401820	Heatexchanger 55-240	1	
3	40401893	Coolerclamp	1	
4	50211202	DIN 912 M6 x 20 --- 20N	2	
5	50211444	Helical spring lock washer DIN 127 B Spring steel DIN267-26 Zinc plated M6	2	
6	50211404	Washer M6	2	
7	50211464	Hex Nut M6 Galvanized DIN934	2	

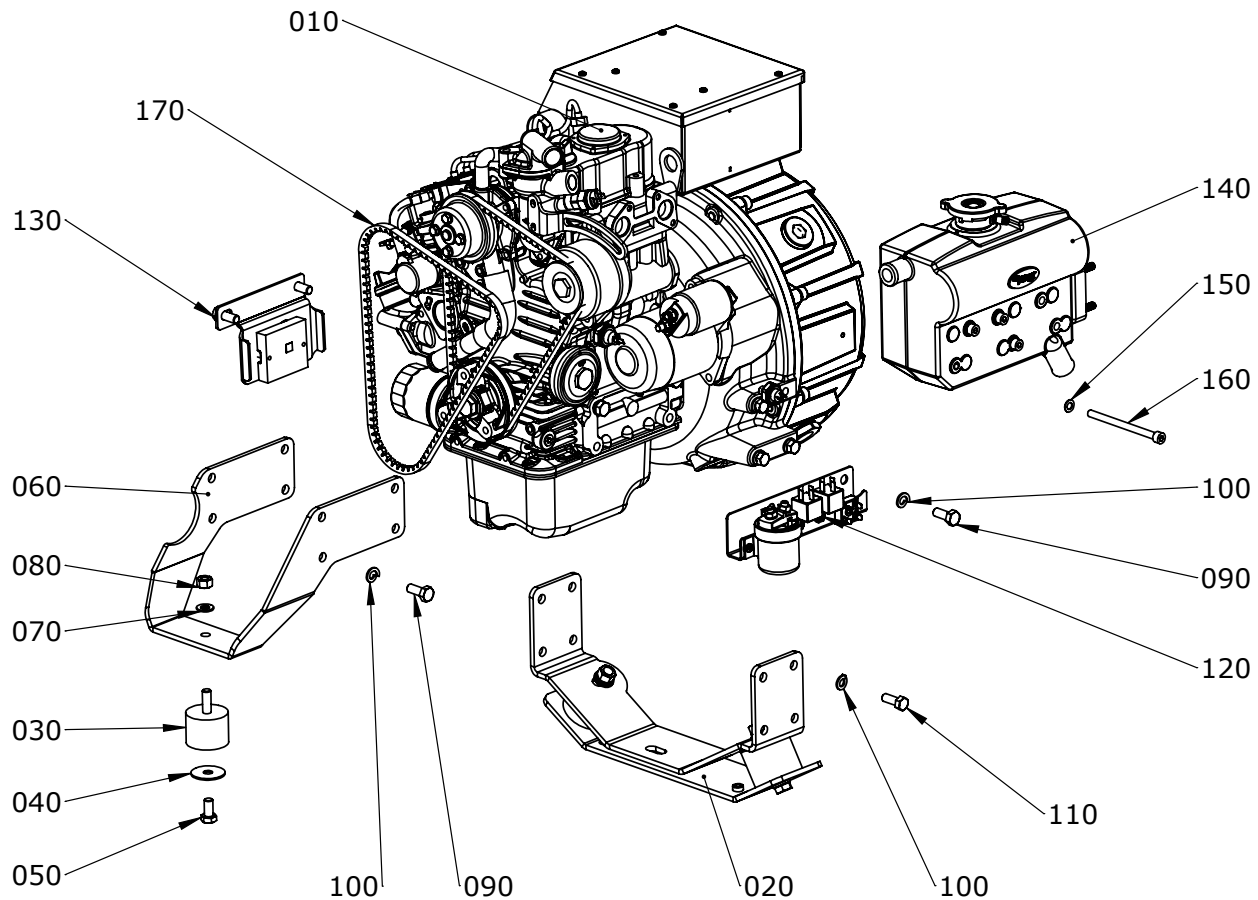
3.4. Raw water Pump



40401870: Cooling Water Pump Complete K2 - 3 Assy

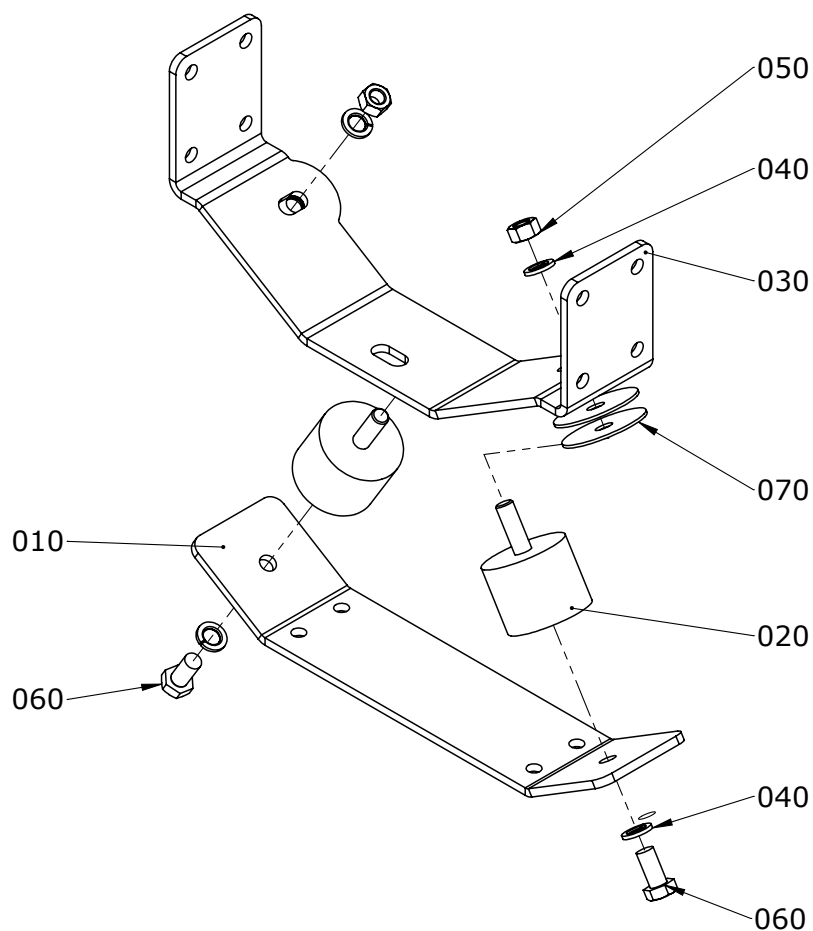
No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
010	40409047	COOLING WATER PUMP BODY K2-3	1	
020	40409040	Special Cam (pump 40401870)	1	
030	40409041	Mechanical Seal pump (40401870)	1	
040	40409042	Impeller Backing Plate 40201670-40401870	1	
050	NOT REQUIRED	Shaft pump 40401870	1	
060	40409044	Lip Sea (pump 40401870)	1	
070	40409045	O-ring 10,5 x 1.5 (pump 40401870)	1	
080	40401870	Cover plate pump (40401870)	1	
090	40409046	ISO 4017 - M4 x 8-N	6	
100	40409013	Impeller (Cooling water pump 40201270)	1	

4. Attachment



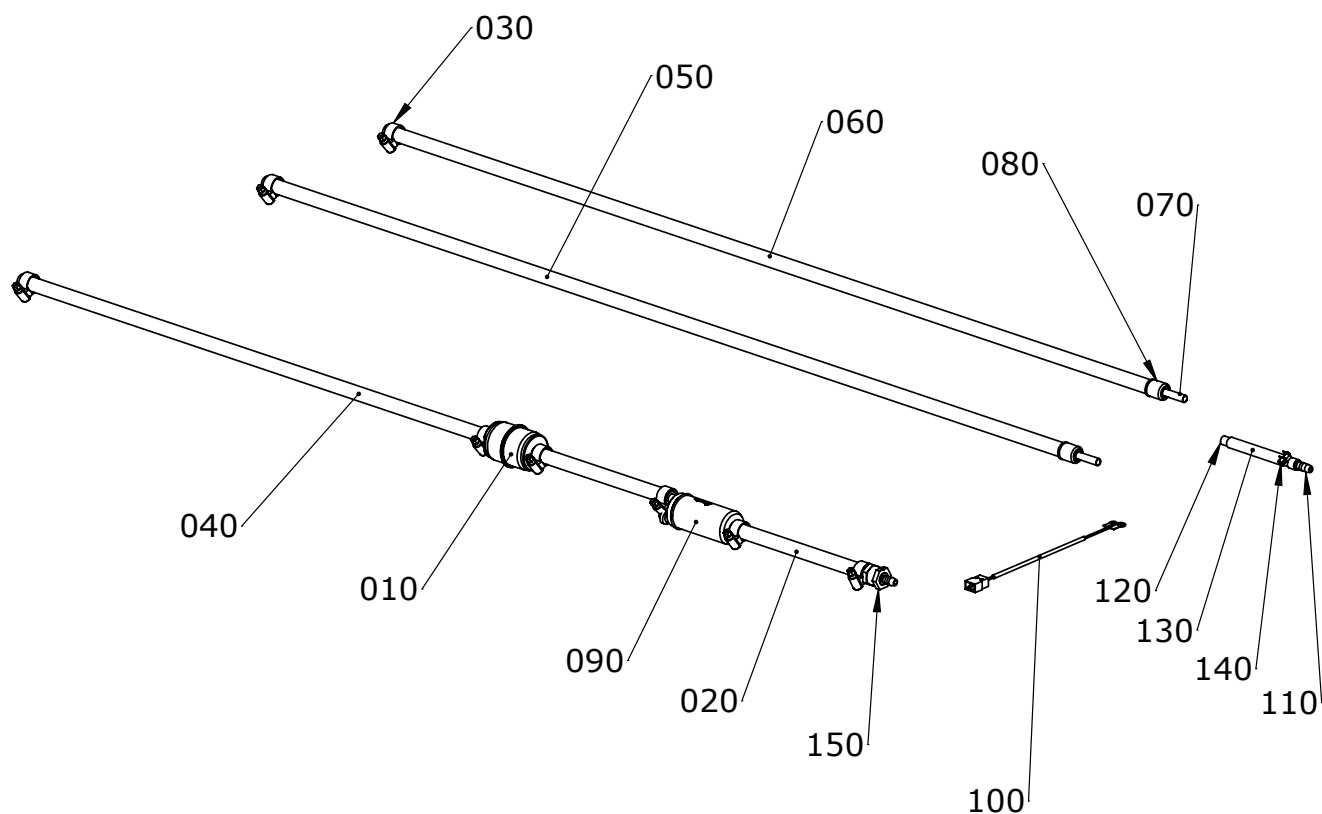
No.	WP Art.	WP art. description	Qty.	Remarks
010	NOT REQUIRED	30 Nm Generator mounting and Electrical	1	see 6.1
020	NOT_REQUIRED	Foundation subassy Piccolo GV2	1	see 4.1
030	50201841	Vibration absorber 50x40M10	1	
040	50211440	Ring 40 x 10 x 2	1	
050	50211170	DIN EN 24018 - M10 x 20-WN	1	
060	40403031	Support engine side tripot Kubota 2 cyl.	1	
070	50211406	Washer M10 DIN125	1	
080	50211476	Nut selflocking M10	1	
090	50211197	Hexagon Head Screw ZP 8.8 M10X1,25X25	8	
100	50211447	Washer spring M10	16	
110	50211259	Hexagon head bolt UNC ASME B18.2.1 Steel SAE J429 Right Plain Grade 8 3/8-16X1 Inch ft	8	
120	40401195	Mass Free kit GV Generators	1	8.1. Optional
130	40230015	Kit Power Resistor 250W Kub-Mit 2-3 cyl	1	8.2. Optional
140	41012043	Kubota Z482 Manifold Marine assy	1	
150	50211455	WASHER CRINCLE SP M8	4	
160	50211721	Hexagon socket head cap screw DIN 912 Steel Plain 8.8 M8X110	4	
170	40403120	V belt AVX 10x875 (G6215MC)	1	

4.1. Foundation Subassy



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403046	Engine support + rivet nuts Piccolo 8	1	
020	50201481	TRILLINGDEMPERS 60X50MM M12 10-B-60*50-M12-45 shr	2	
030	40403029	Support Kubota Engine 2 cyl. Flywheelside tripot	1	
040	50211449	Spring lock washer with square ends DIN 127 B Spring steel Zinc plated M12	4	
050	50211467	Hexagon nut DIN 934 (1987) Steel Zinc plated 8 M12	2	
060	50211198	Hexagon head screw DIN 933 Steel Zinc plated 8.8 M12X25/S=19	2	
070	50211428	Fender washer Steel Zinc plated M12X60	4	

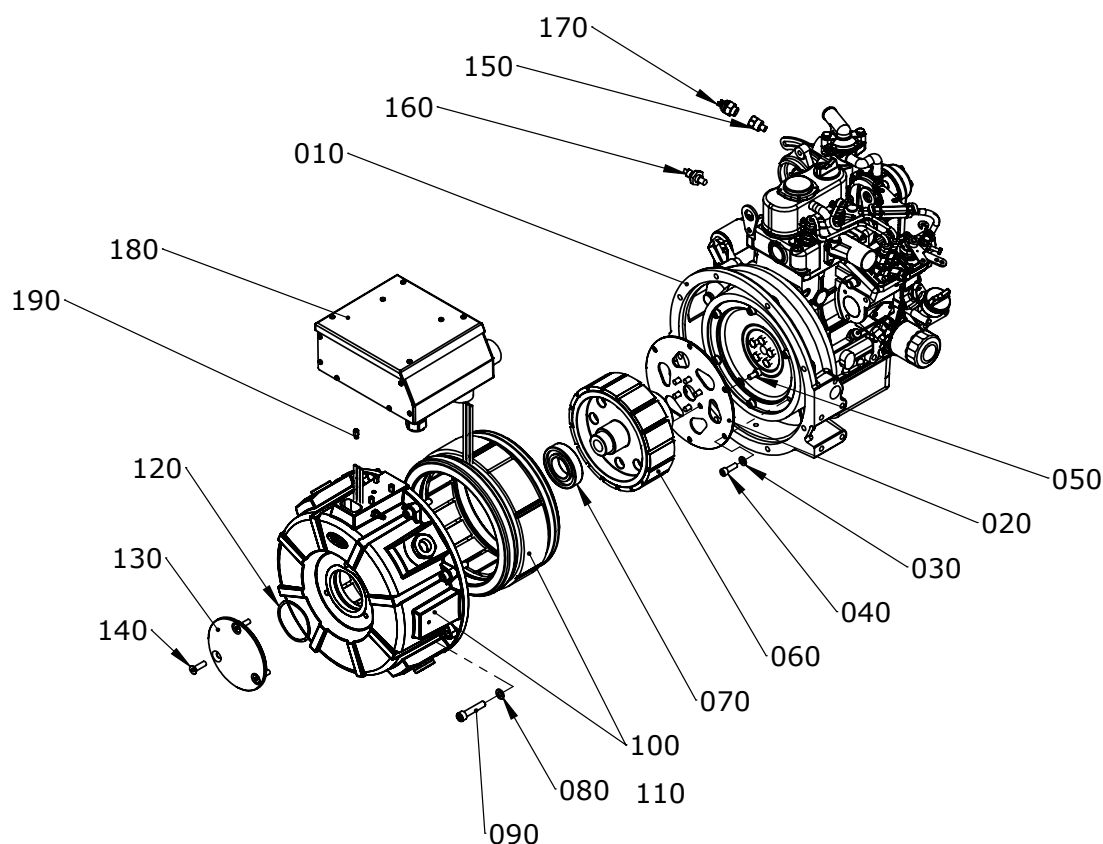
5. Fuel



No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
010	40209030	FUEL FILTER	1	
020	50220063	Fuel hose 16x8 L=200	2	
030	50221522	Hose Clamp RVS 16	8	
040	50220063	Fuel hose 16x8 L=700	1	
050	50220063	Fuel hose 16x8 L=0800mm	1	
060	50220063	Fuel hose 16x8 L=0800mm	1	
070	50221252	Nipple Hose Pipe 8-8	2	
080	50209037	Sleeve 17	2	
090	50201161	Fuel pump 12V electric	1	
100	50201163	Cable Rotating Fuel Pump 50201161	1	
110	50221351	Adaptor M/M ø8 to ø6 mm	1	
120	50220064	Fuel hose 4,5-9,9 =100mm	1	
130	50216022	Sleeve glass 4kV 10mm zwart L=80mm	1	
140	50221531	Hose clamp RVS mini 7-9	1	
150	50201164	Check valve fuel 8mm -421-99-0000-	1	

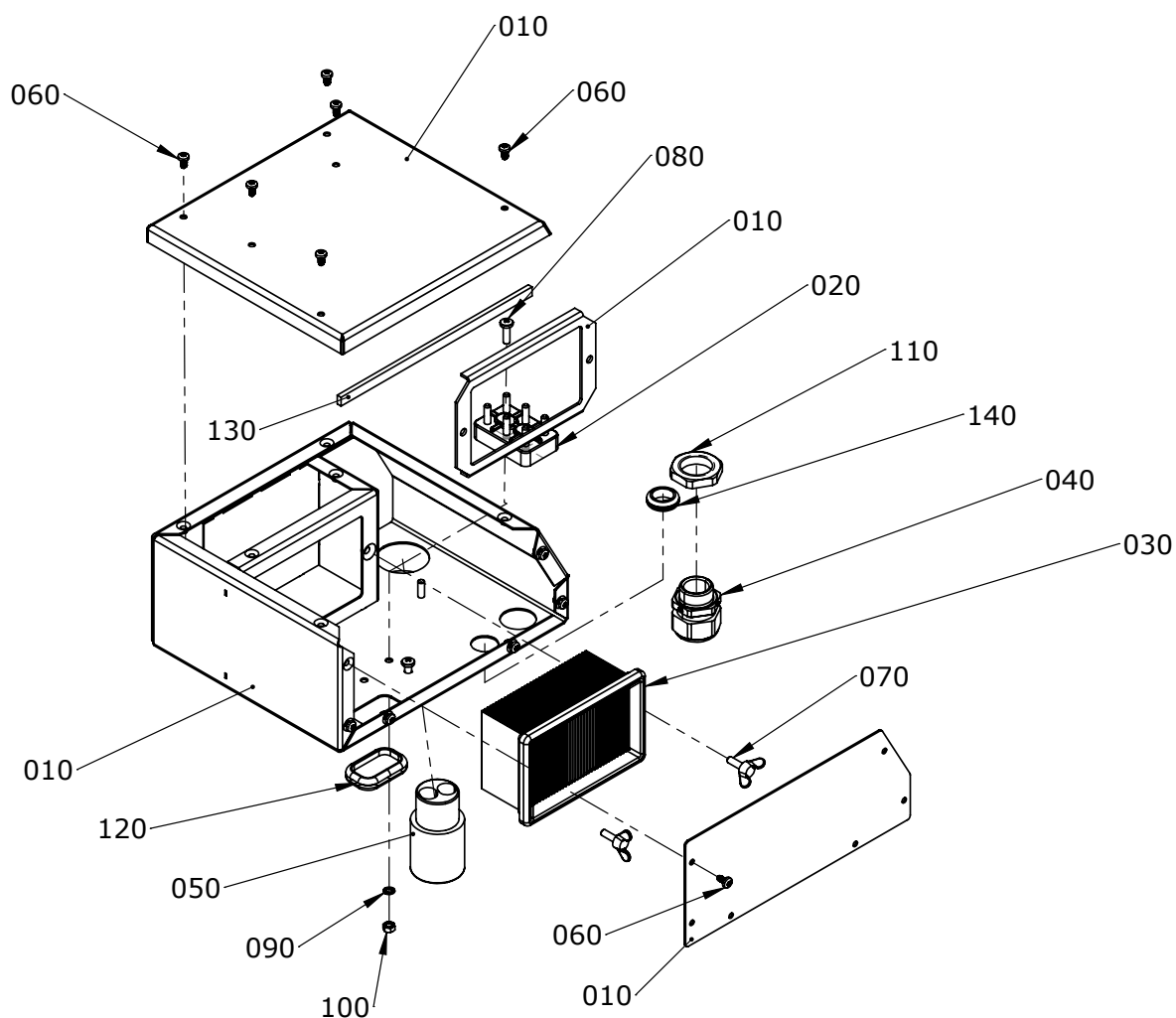
6. Electrical

6.1. Generator Mounting



No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
010	40201801	Diesel Engine Kubota Z482 2 cyl SAE5	1	
020	40401826	Flexplate 6.5" flywheel	2	
030	50211419	Washer SS M8	12	
040	50211214	Hexagon socket head cap screw DIN 912 Steel Zinc plated 8.8 M8X25	6	
050	50211231	Hexagon socket head cap screw DIN 912 Steel Zinc plated 8.8 M8X16	6	
060	40401906	Rotor subassembly 30 Nm bandaged	1	
070	50208016	Radial ball bearing 68 skf	1	
080	50211447	Spring Washer ZP M10	8	
090	50211247	Socket Head Cap Screw 3/8 16 UNC x 50 2A	8	
100	40401915	Stator 389Volt V1.3 assembly SAE5 PM	1	High Voltage
110	40401916	Stator 339Volt V3.5 assembly SAE5 PM	1	Low Voltage
120	40403043	Wave spring GLF 6010 K3	1	
130	40403042	Bearing pressure ring	1	
140	50211539	Hexagon socket countersunk head screw ISO 10642 Steel Zinc plated 010.9 M8X30	3	
150	50221688	Reducing nipple	1	
160	50209212	OILPRESSURE SWITCH 0,5 SINGLE POLE	1	
170	50209208	Temp switch 110C M16-1-5 NC	1	
180	40403135	Suction manifold assy GV2-3	1	
190	50211515	Hexagon Nut ISO 4034 - M5 - N	4	
200	40401886	Cable tree GV Kubota	1	not shown

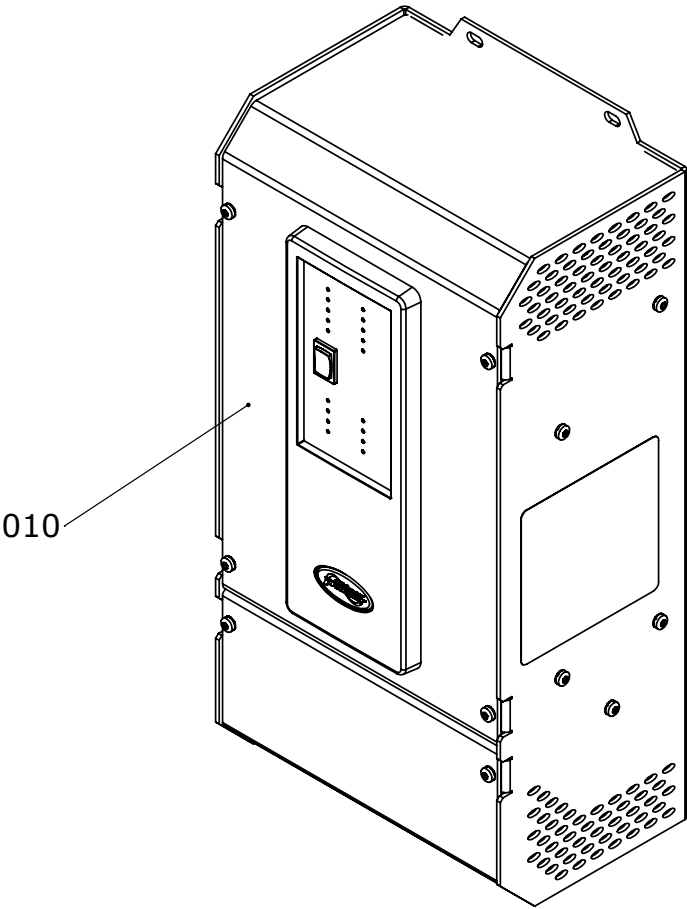
6.2. Control box



40403135: Control box complete

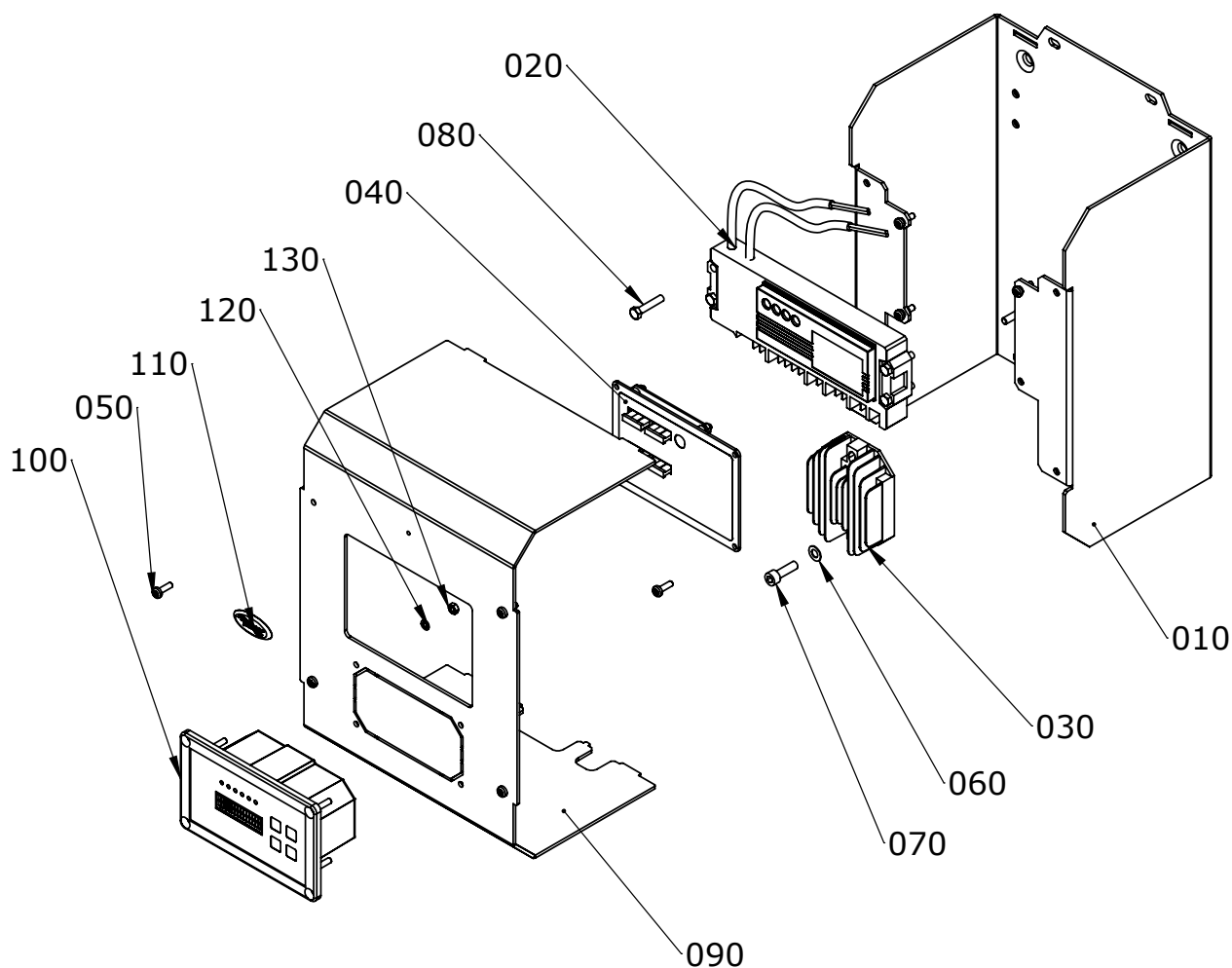
No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
010	40403034	Suction manifold all steelwork GV2-3	1	
020	50216302	TERMINAL BOARD 6 POLE M5	1	
030	40230007	Air filter C1320 124x81x53.4	1	
040	50212312	Cable Gland M25x1,5	1	
050	50201117	Air inlet muffler v2	1	
060	50211363	Taptite M4X8	12	
070	50211850	WING SCREW VZ M5X16	2	
080	50211316	SCREW CH ZP SLOTTED M5X16	2	
090	50211443	Spring Washer ZP M5	2	
100	50211463	Hex Nut M5 Galvanized DIN934	2	
110	50212314	CABLE GLAND NUT NYLON PG21	1	
120	50209090	Grommet oval 20-40	1	
130	50222008	Neopreen tape 8x3mm L=200	1	
140	50204039	Cable grommet TPR 16x21x1,6	1	

6.3. PMG 6kW - 230V



No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
010	60201405	POWER MODULE FOR GENVERTER 6KW -230V	1	

6.4. DDC External Control Box

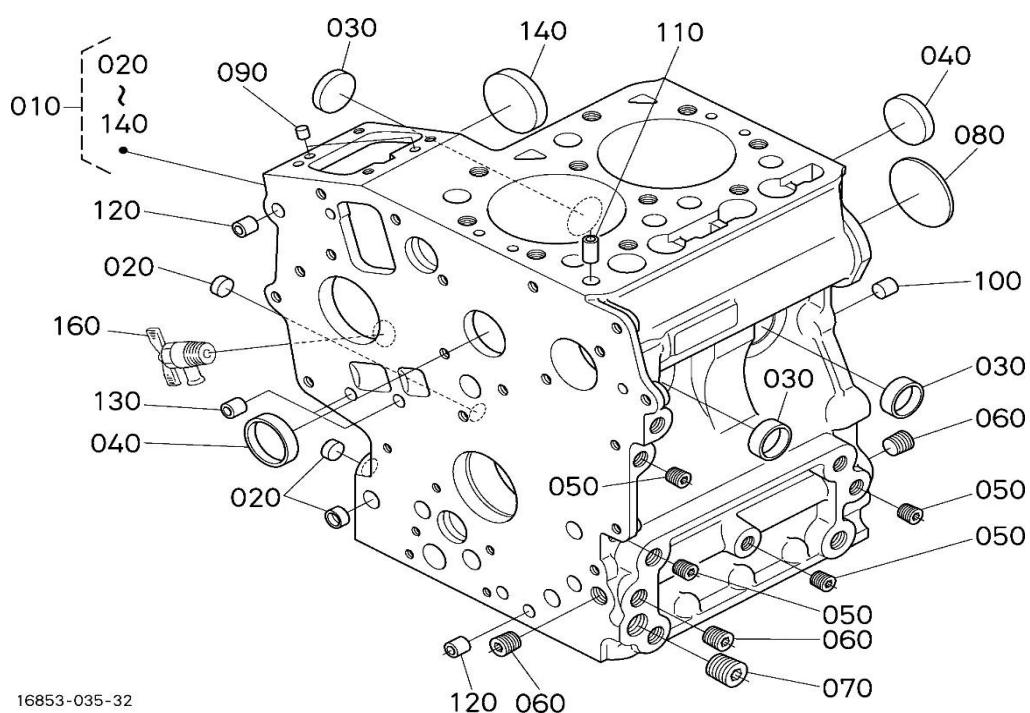


Art. number 50209195: DDC External Control Box compl

No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
010	50209189	Cabinet for DDC and LOP GV4 Kooy Security	1	
020	40401150	Black Box DDC, Basic	1	
030	40403184	Regulator	1	
040	40209162	LOCAL CONTROL M DDC ASSY	1	
050	50211365	M4x10 Torx T20	8	
060	50211454	Wave Spring Washer ZP M6	2	
070	50211202	Hexagon socket head cap screw DIN 912 Steel Zinc plated 8.8 M6X20	2	
080	50211132	Hexagon head screw ISO 4017 Steel Zinc plated 8.8 M5X25	4	
090	50209195	8018 COVER	1	
100	40209102	REMOTE CONTROL PANEL COMPLETE DDC	1	
110	40200956	Whisper Power Logo 2015 39mm	1	
120	50211460	Spring washer M4	4	
130	50211462	NUT HEXOGONAL SP M4	4	

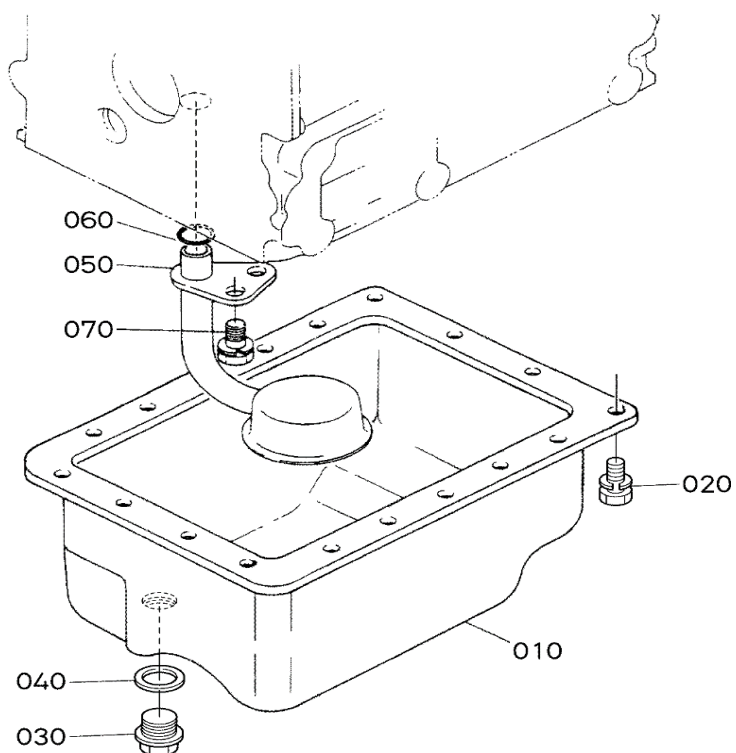
7. Engine Spare Parts

7.1. Crankcase



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403200	CRANKCASE COMPLETE - Z482	1	
020	40403201	CAP,SEALING - 1 - Crankcase - Z482	3	
030	40403202	CAP,SEALING - 2 - Crankcase - Z482	3	
040	40403203	CAP,SEALING - 3 - Crankcase - Z482	2	
050	40403204	PLUG - 1 - Crankcase - Z482	4	
060	40403205	PLUG - 2 - Crankcase - Z482	3	
070	40403206	PLUG - 3 - Crankcase - Z482	1	
080	40403207	PLUG,EXPANSION - Crankcase - Z482	1	
090	40403208	PIN,STRAIGHT - 1 - Crankcase - Z482	2	
100	40403209	PIN,STRAIGHT - 2 - Crankcase - Z482	2	
110	40403210	PIN,PIPE - 1 - Crankcase - Z482	1	
120	40403211	PIN,PIPE - 2- Crankcase - Z482	2	
130	40403212	PIN,PIPE - 2- Crankcase - Z482	2	
140	40403213	COVER,FUEL CAMSHAFT - Crankcase - Z482	1	
160	40403214	COCK,ASSY(DRAIN) - Crankcase - Z482	1	

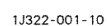
7.2. Oil Pan



1G313-059-13

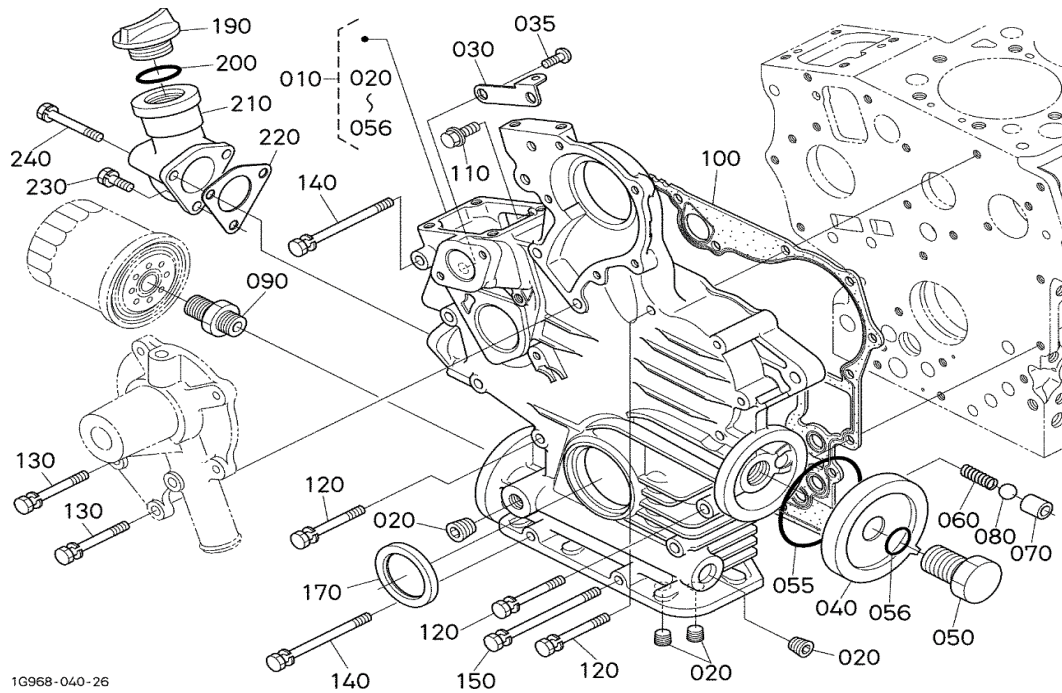
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403215	OIL PAN COMPLETE - Z482	1	
020	40403216	BOLT,SEMS - 1 - Oil pan - Z482	18	
030	40401804	CARTERPLUG K - Z482	1	
040	40403217	GASKET - Oil pan - Z482	1	
050	40403218	OIL FILTER - Oil pan - Z482	1	
060	40403219	O-RING - Oil pan - Z482	1	
070	40403220	BOLT,SEMS - 2 - Oil pan - Z482	1	

7.3. Cylinder Head



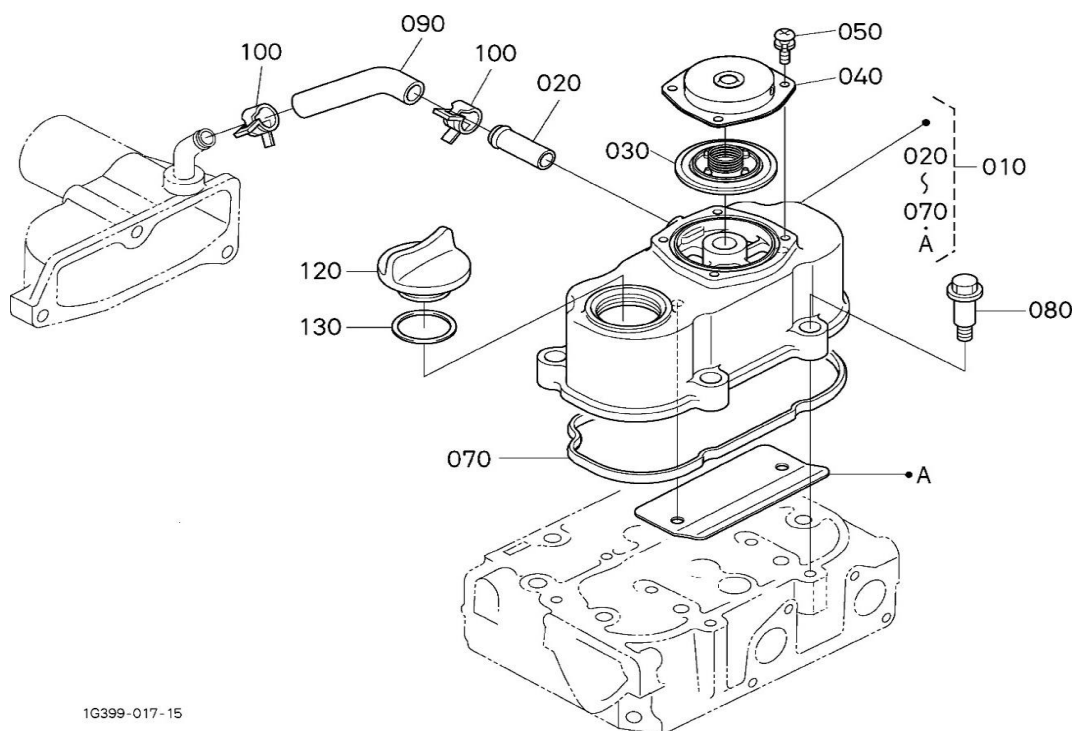
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403221	ENGINE HOOK - Cylinder head - Z482	2	
030	40403222	BOLT,SEMS - Cylinder head - Z482	2	
040	40403223	CYLINDER HEAD COMPLETE - Z482	1	
050	40403224	CAP,SEALING - 1 - Cylinder head - Z482	1	
060	40403225	CAP,SEALING - 2 - Cylinder head - Z482	1	
080	40403226	PLUG - Cylinder head - Z482	1	
090	50202019	KLEPGELEIDER INLAATKLEP - Z482	2	
100	50202025	KLEPGELEIDER UITLAATKLEP K - Z482	2	
110	40403227	BOLT - Cylinder head - Z482	10	
120	40403129	CILINDER KOPPAKKING K - Z482	1	

7.4. Gear Case



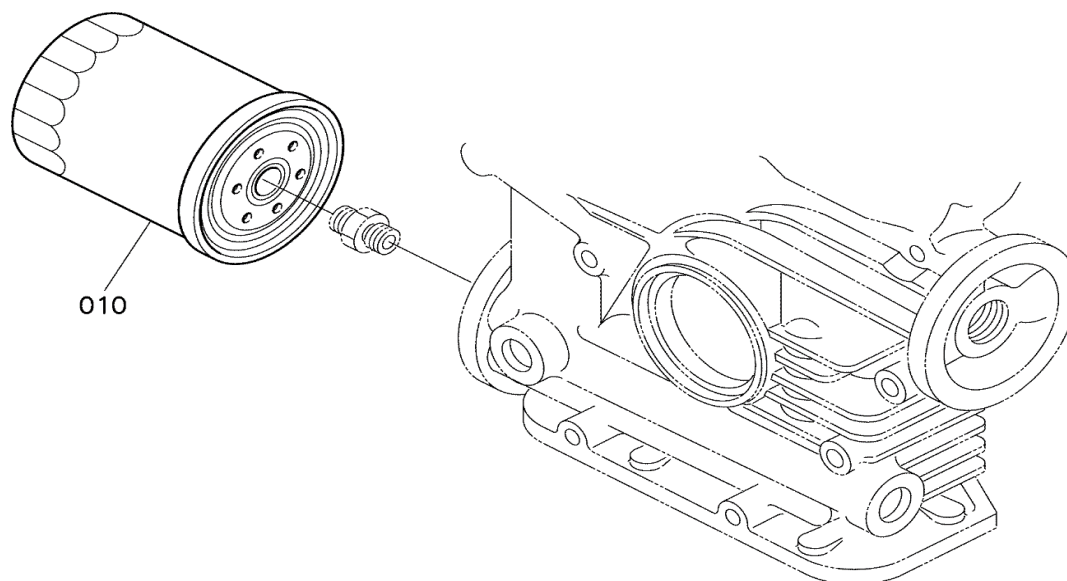
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403228	GEAR CASE COMPLETE - Z482	1	
020	40403229	PLUG - Gear case - Z482	4	
030	40403230	STAY,START SPRING - Gear case - Z482	1	
035	40403231	SCREW - Gear case - Z482	2	
040	40403232	COVER - Gear case - Z482	1	
050	40403233	BOLT - 1 - Gear case - Z482	1	
055	40403234	O-RING - 1 - Gear case - Z482	1	
056	40403235	O-RING - 2 - Gear case - Z482	1	
060	40403236	SPRING - Gear case - Z482	1	
070	40403237	VALVE SEAT - Gear case - Z482	1	
080	40403238	BALL - Gear case - Z482	1	
090	40403239	PIPE JOINT - Gear case- Z482	1	
100	40403240	GEAR CASE GASKET - Z482	1	
110	40403241	BOLT, FLANGE - Gear case - Z482	1	
120	40403242	BOLT, SEMS - 1 - Gear case - Z482	8	
130	40403243	BOLT - 2 - Gear case - Z482	2	
140	40403244	BOLT, SEMS - 2 - Gear case - Z482	3	
150	40403245	BOLT, SEMS - 3 - Gear case - Z482	1	
170	40403246	SEAL,OIL - <=4DPZ999 - Z482	1	SN <=4DPZ999
170	40403247	SEAL,OIL - >=4DQ0001 - Z482	1	SN >=4DQ0001
190	40403248	OIL FILLER PLUG - Gear case - Z482	1	
200	40403249	O-RING - 3 - Gear case - Z482	1	
210	40403250	FLANGE,OIL FILLER - Gear case - Z482	1	
220	40403251	PACKING,FLANGE - Gear case - Z482	1	
230	40403252	BOLT, SEMS - 4 - Gear case - Z482	1	
240	40403253	BOLT, SEMS - 5 - Gear case - Z482	2	

7.5. Head Cover



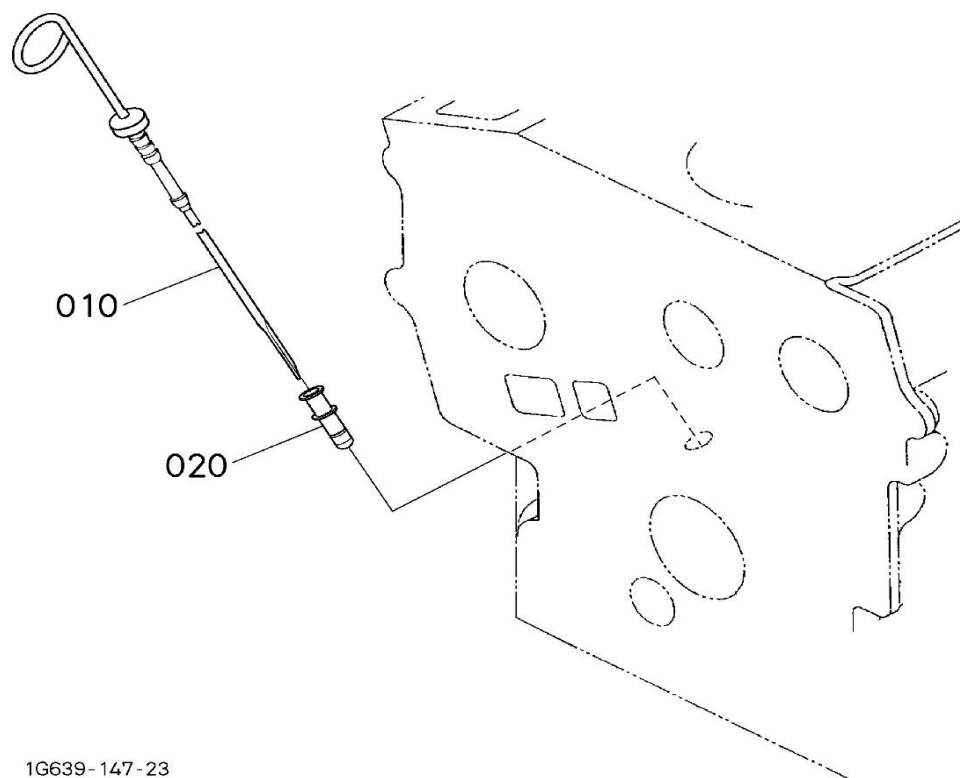
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403254	CYLINDER HEAD COVER ASSY - Z482	1	
020	40403255	WATER RETURN PIPE - Head cover - Z482	1	
030	40403256	VALVE, BREATHER COMPLETE - Head cover - Z482	1	
040	40403257	COVER, BREATHER - Head cover - Z482	1	
050	40403258	PAN HEAD SCREW, SEMS - Head cover - Z482	4	
070	40403137	KLEPDEKSELPACKING K - Z482	1	
080	40403259	BOLT - Head cover - Z482	4	
090	40403260	BREATHER TUBE - Head cover - Z482	1	
100	40403261	HOSE CLAMP - Head cover - Z482	2	
120	40403262	OIL FILLER PLUG - Head cover - Z482	1	
130	40403263	O-RING - Head cover - Z482	1	

7.6. Oil Filter



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403121	OLIEFILTER GV8/10 GV2/GV3 - K	1	

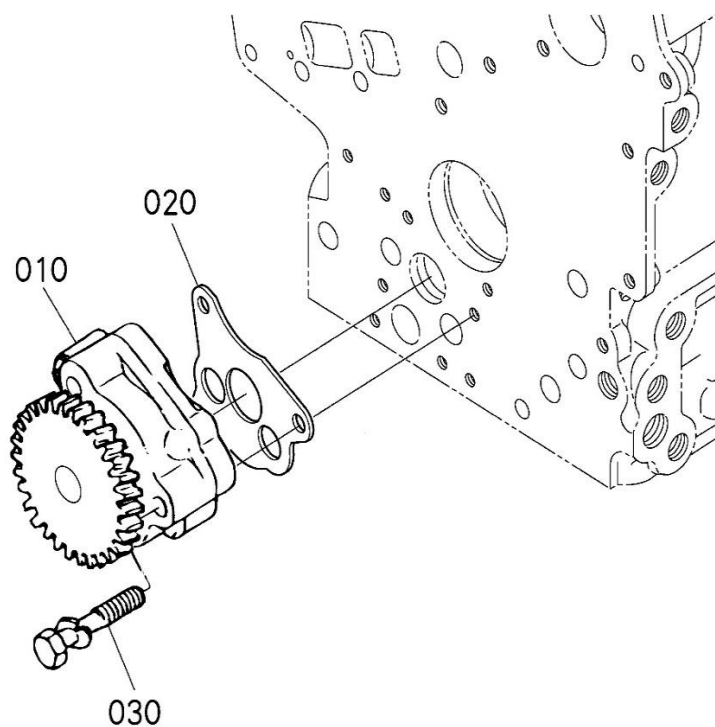
7.7. Dipstick and guide



1G639-147-23

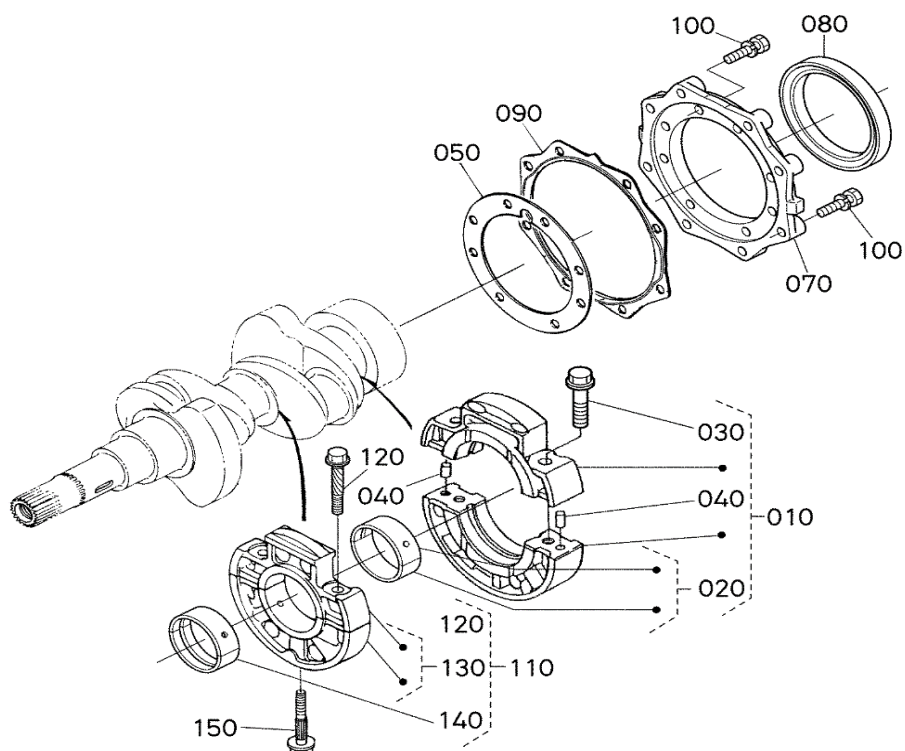
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403264	OIL GAUGE - Z482	1	
020	40403265	GUIDE FOR OIL GAUGE - Z482	1	

7.8. Oil Pump



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403266	OIL PUMP ASSY - Z482	1	
020	40403267	OIL PUMP GASKET - Z482	1	
030	40403268	BOLT - Oil pump - Z482	3	

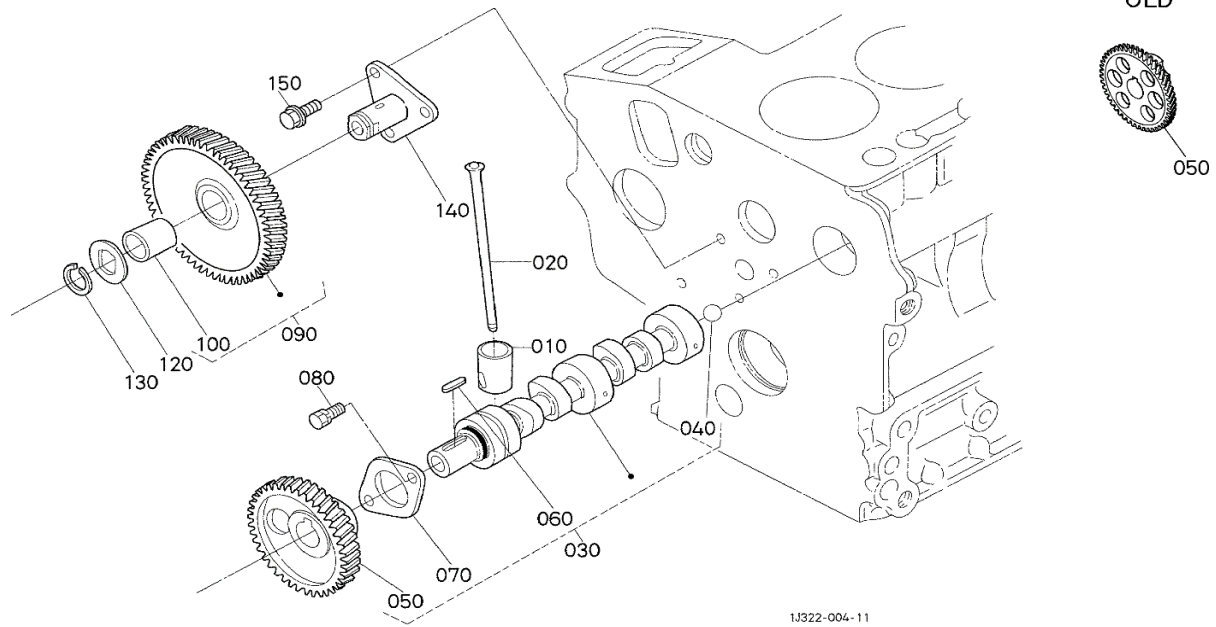
7.9. Main bearing case



1J956-000-10

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403269	MAIN BEARING CASE FULL ASSY - Serial number dependent - Z482	1	
020	40403270	CRANKSHAFT - Serial number dependent - Z482	1	STD/SET
020	*	*	1	-0.20mm/SET
020	*	*	1	-0.40mm/SET
030	50202413	BOUT KLEPHOUDER K - Z482	2	
040	40403272	PIN, STRAIGHT - Main bearing case - Z482	2	
050	40403273	BEARING CASE GASKET - Z482	1	
070	40403274	BEARING CASE COVER - Z482	1	
080	40201646	OLIE KEERRING VliegWielZIJDE D722	1	
090	40403275	GASKET,CASE COVER - Main bearing case - Z482	1	
100	40403276	BOLT,SEMS - Main bearing case - Z482	16	
110	40403277	BEARING CASE ASSY - Z482	1	
120	40403278	BOLT,BEARING CASE - 1 - Main bearing case - Z482	2	
130	40403279	MAIN BEARING CASE ASSY - Serial number dependent - Z482	1	
140	40403280	METAL,CRANKSHAFT - Z482	1	STD/SET
140	*	*	1	-0.20mm/SET
140	*	*	1	-0.40mm/SET
150	40403283	BOLT,BEARING CASE - 2 - Main bearing case - Z482	1	

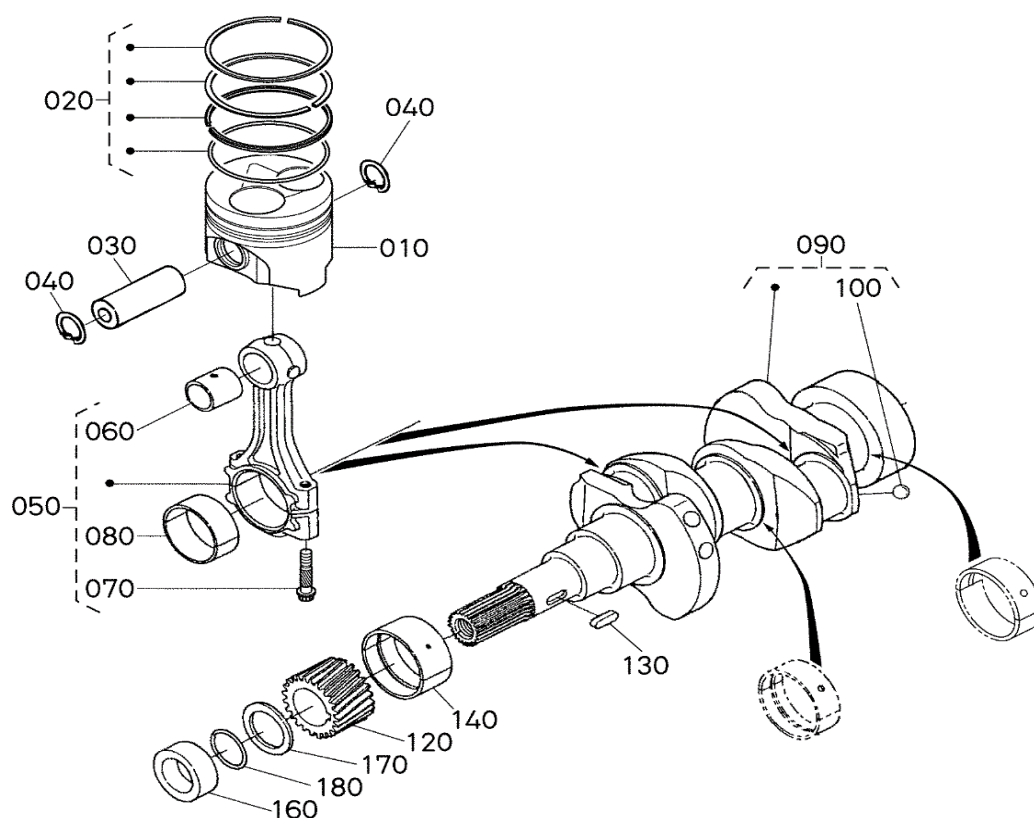
7.10. Camshaft and idle gear shaft



1G317-815-10

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403284	TAPPET - Camshaft - Z482	4	
020	40403285	PUSH ROD - Camshaft - Z482	4	
030	40403286	CAMSHAFT ASSY - <=4DMZ999 - Z482	1	<=4DMZ999
030	40403287	CAMSHAFT ASSY - >=4DN0001 - Z482	1	>=4DN0001
040	40403288	BALL 1/4 - Camshaft - Z482	1	
050	40403289	GEAR,CAM - Camshaft - <=4DMZ999 - Z482	1	<=4DMZ999
050	40403290	GEAR,CAM - Camshaft - >=4DN0001 - Z482	1	>=4DN0001
050	40403291	GEAR,CAM - Camshaft - >=4GJ0001 - Z482	1	>=4GJ0001
060	40403292	FEATHER KEY - Camshaft - Z482	1	
070	40403293	STOPPER - Camshaft - Z482	1	
080	40403294	BOLT,SEMS - Camshaft - Z482	2	
090	40403295	IDLE GEAR COMPLETE - Z482	1	
100	40403296	BUSH - Idle gear - Z482	1	
120	40403297	COLLAR - Idle gear - Z482	1	
130	40403298	RING, SNAP - Idle gear - Z482	1	
140	40403299	IDLE GEAR SHAFT - Z482	1	
150	40403300	BOLT, FLANGE - Idle gear - Z482	3	

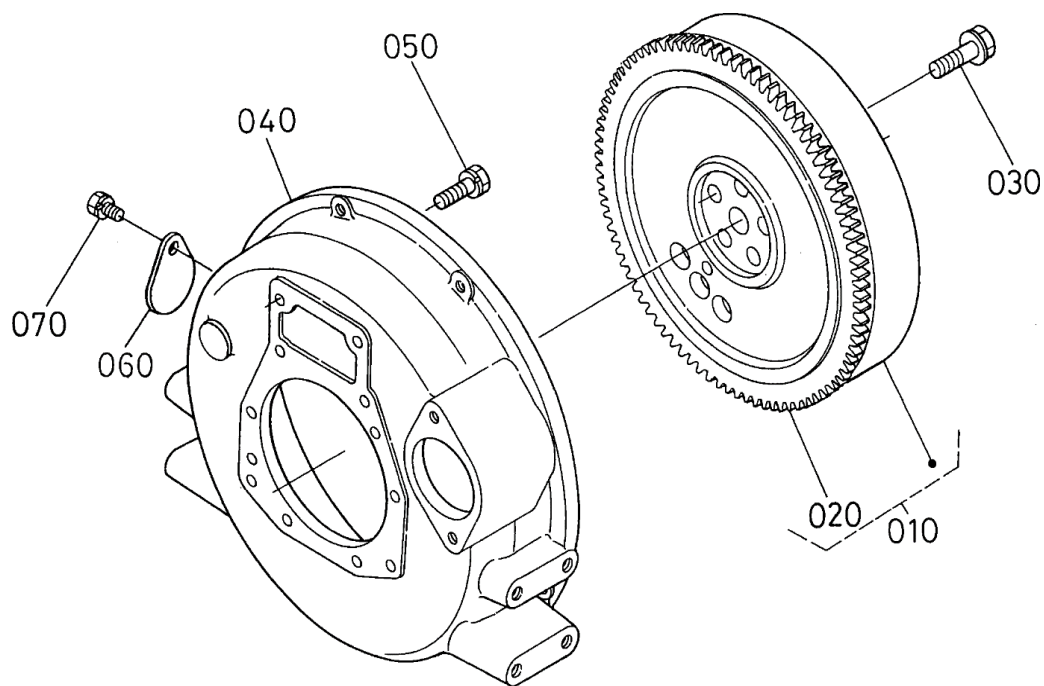
7.11. Piston and crankshaft



1J322-005-11

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403301	PISTON - STD - Z482	2	STD
010	40403302	PISTON - +0.25mm - Z482	2	+0.25mm
020	40403146	ZUIGERVEREN GV2 K	2	STD
020	40403303	PISTON RINGS - +0.25mm - Z482	2	+0.25mm
030	40403304	PISTON PIN - Z482	2	
040	50202073	CLIP ZUIGERPEN K - Z482	4	
050	40403305	CONNECTING ROD ASSY - Z482	2	
060	40403306	BUSH,PISTON PIN - Z482	2	
070	40403307	BOLT, CONNECTING ROD - Z482	4	
080	40403308	CRANKPIN - Crankshaft - STD - Z482	2	STD/SET
080	40403309	CRANKPIN - Crankshaft - -0.20mm - Z482	2	-0.20mm/SET
080	40403310	CRANKPIN - Crankshaft - -0.40mm - Z482	2	-0.40mm/SET
090	*	*	1	<=4DXZ999
090	*	*	1	>=4DY0001
100	40403313	BALL - Crankshaft - Z482	2	
120	40403314	CRANK GEAR - Crankshaft - Z482	1	
130	40403315	FEATHER KEY - Crankshaft - Z482	1	STD
140	*	*	1	-0.20mm
140	*	*	1	-0.40mm
140	*	*	1	
160	40403319	COLLAR - Crankshaft - Z482	1	
170	40403320	OIL SLINGER - Crankshaft - Z482	1	
180	40403321	O-RING - Crankshaft - Z482	1	

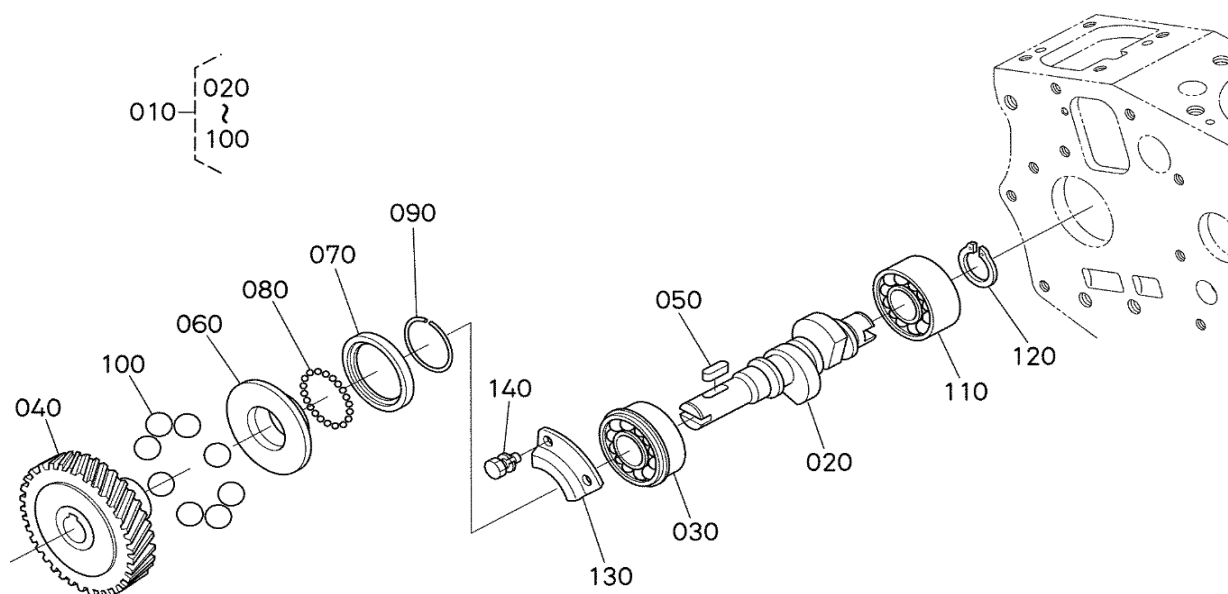
7.12. Flywheel



16813-010-10

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403322	FLYWHEEL COMPLETE - Z482	1	
020	40403323	GEAR, RING - Flywheel - Z482	1	
030	40403324	BOLT - Flywheel - Z482	5	
040	40403325	FLYWHEEL HOUSING - Z482	1	
050	40403326	BOLT,SEMS - 1 - Flywheel - Z482	10	
060	40403327	Cover - Flywheel - Z482	1	
070	40403328	BOLT,SEMS - 2- Flywheel - Z482	1	

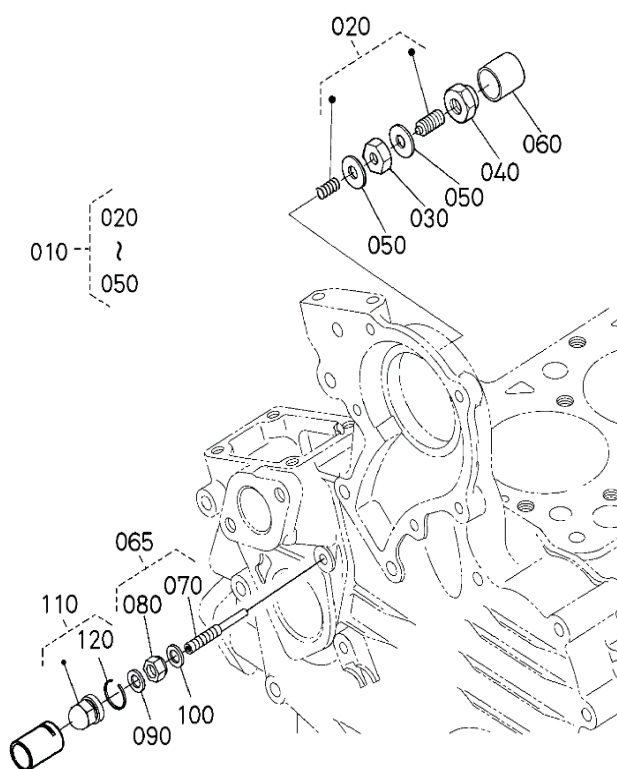
7.13. Fuel camshaft and Govoner shaft



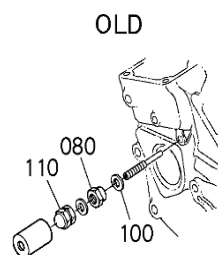
1J322-007-10

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403329	CAMSHAFT FUEL ASSY	1	
020	40403330	CAMSHAFT FUEL	1	
030	40403331	BEARING,BALL - 1 - Fuel Camshaft - Z482	1	
040	40403332	GEAR INJECTION PUMP - Fuel camshaft - Z482	1	
050	40403333	FEATHER KEY - Fuel camshaft - Z482	1	
060	40403334	SLEEVE,GOVERNOR - Fuel camshaft - Z482	1	
070	40403335	CASE,GOVERNOR BALL - Fuel camshaft - Z482	1	
080	40403336	BALL - 1 - Fuel camshaft - Z482	32	
090	40403337	CIR-CLIP, GOVERNOR SLEEVE - Z482	1	
100	40403338	BALL - 2 - Fuel camshaft - Z482	8	
110	40403339	BEARING,BALL - 2 - Fuel Camshaft - Z482	1	
120	40403340	CIR-CLIP,EXTERNAL - Fuel camshaft - Z482	1	
130	40403341	STOPPER - Fuel camshaft - Z482	1	
140	40403342	BOLT,SEMS - Fuel camshaft - Z482	2	

7.14. Idle apparatus



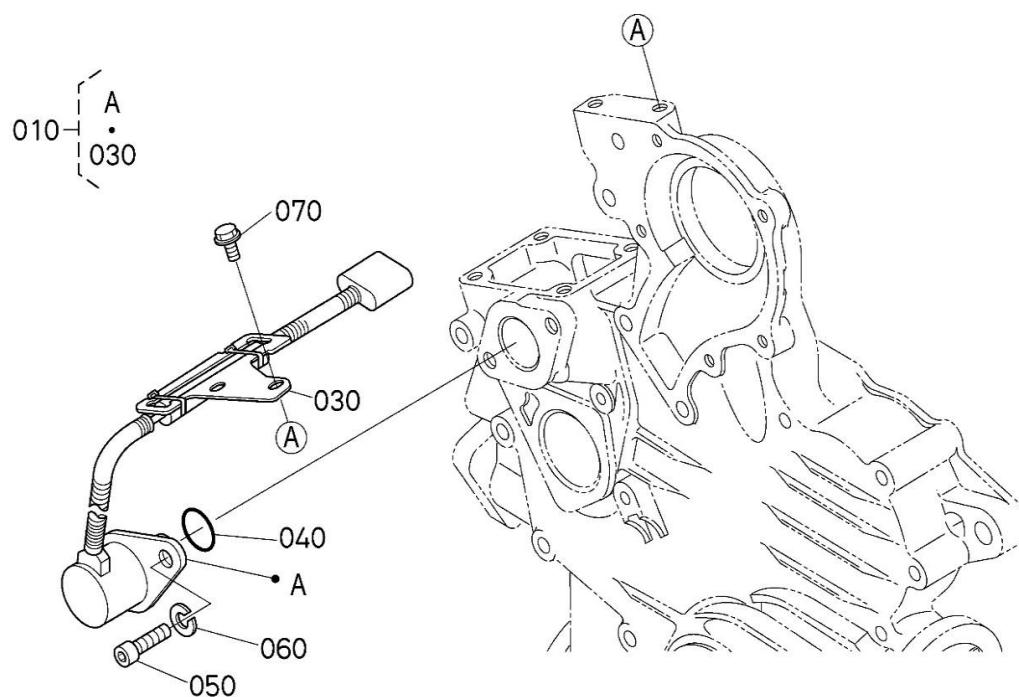
1G243-006-28



1G686-817-10

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403343	IDLE APPARATUS ASSY	1	
020	40403344	ADJUSTING BOLT ASSY - 1 - Idle apparatus - Z482	1	
030	40403345	NUT - Idle apparatus - Z482	1	
040	40403346	NUT, CAP - 1 - Idle apparatus - Z482	1	
050	40403347	PACKING - 1 - Idle apparatus - Z482	2	
060	40403348	CAP - Idle apparatus - Z482	1	
065	40403349	ADJUSTING BOLT ASSY - 2 - >=4GQ0001 - Idle apparatus - Z482	1	>=4GQ0001
070	40403350	ADJUSTING BOLT - Idle apparatus - Z482	1	
080	40403351	NUT LOCK - <=4GPZ999 - Idle apparatus - Z482	1	<=4GPZ999
080	40403352	NUT LOCK - >=4GQ0001 - Idle apparatus - Z482	1	>=4GQ0001
090	40403353	PACKING - 2 - Idle apparatus - Z482	1	
100	40403354	GASKET - <=4FZZ999 - Idle apparatus - Z482	1	<=4FZZ999
100	40403355	PACKING - 3 - >=4GA0001 - Idle apparatus - Z482	1	>=4GA0001
110	40403356	NUT, CAP - 2 - <=4GPZ999 - Idle apparatus - Z482	1	<=4GPZ999
110	40403357	NUT,CAP,ASSY - >=4GQ0001 - Idle apparatus - Z482	1	>=4GQ0001

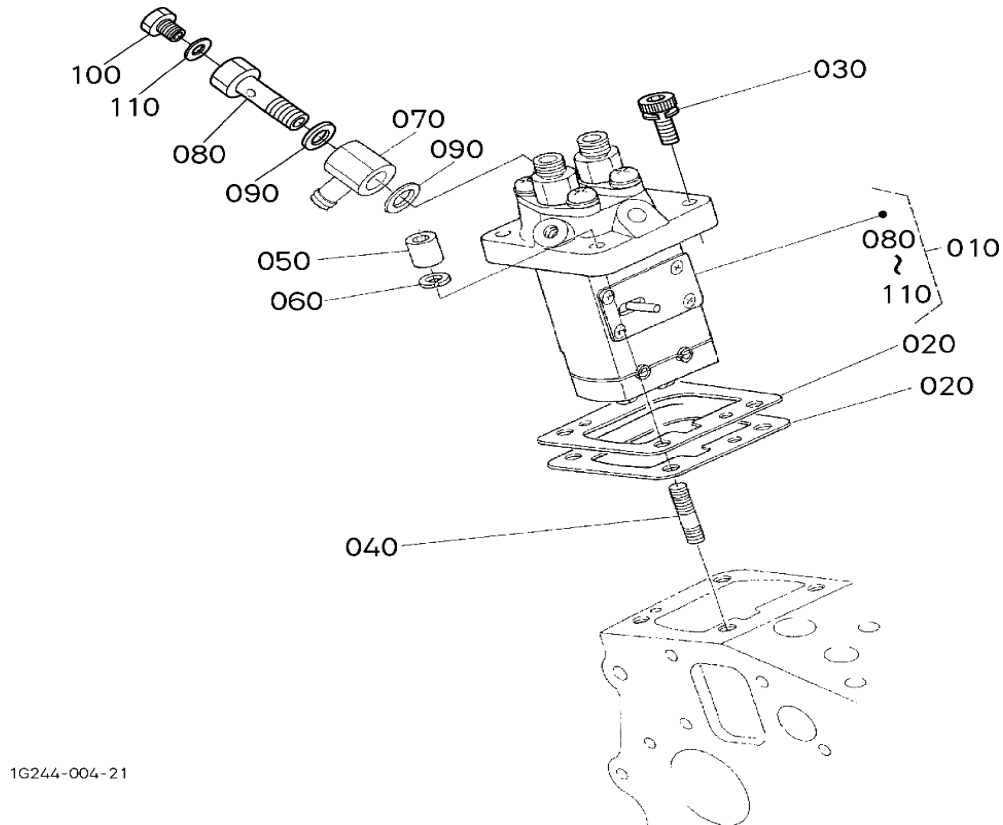
7.15. Stop Solenoid



1G957-083-11

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40202048	STOPMAGNEET KUB. Z482 en D722 E4B	1	
030	40403359	STAY,COIL COMMANDER - Stop solenoid - Z482	1	
040	40202043	O-RING SOLENOID / STOP MAGNEET Z482 / D722	1	
050	40403360	BOLT,SOCKET HEAD - Stop solenoid - Z482	2	
060	40403361	WASHER,SPRING LOCK - Stop solenoid - Z482	2	
070	40403362	BOLT,FLANGE - Stop solenoid - Z482	2	
120	40403358	CIRCLIP,INT - >=4GQ0001 - Idle apparatus - Z482	1	>=4GQ0001

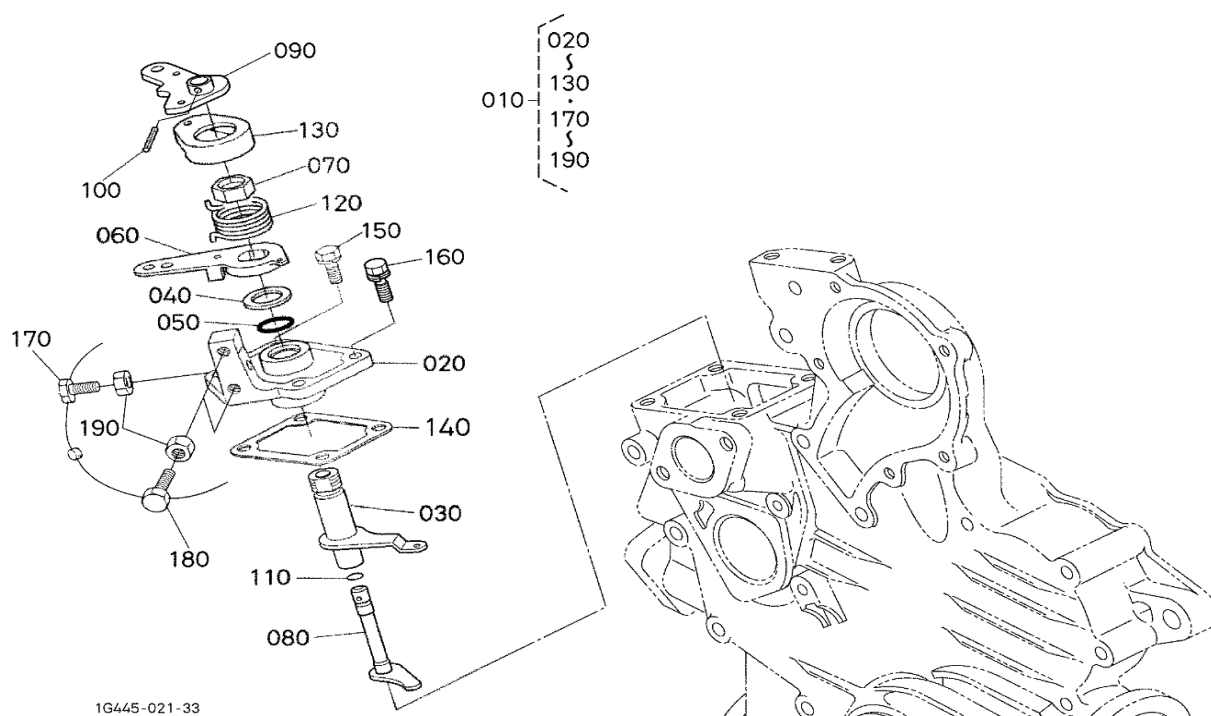
7.16. Injection Pump



1G244-004-21

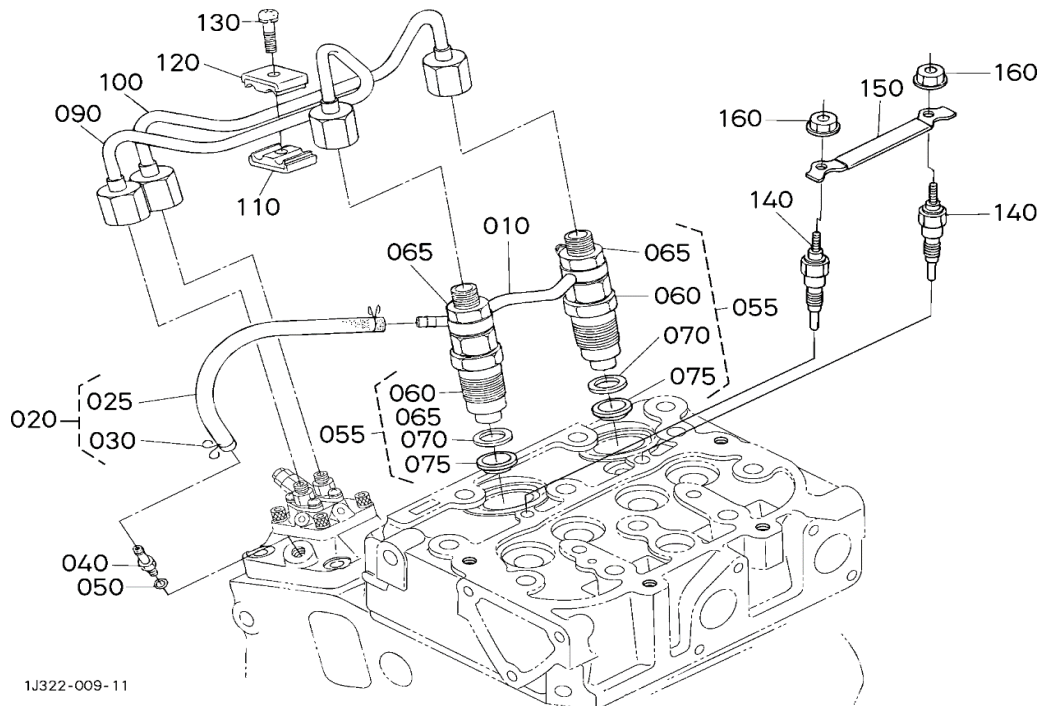
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40201685	BRANDSTOF POMP HOGE DRUK GV8 / GV2	1	
020	40403363	SHIM, INJECTION PUMP - 0.175mm - Z482	1	0.175mm
020	40403364	SHIM, INJECTION PUMP - 0.200mm - Z482	1	0.200mm
020	40403365	SHIM, INJECTION PUMP - 0.250mm - Z482	1	0.250mm
020	40403366	SHIM, INJECTION PUMP - 0.300mm - Z482	1	0.300mm
020	40403367	SHIM, INJECTION PUMP - 0.350mm - Z482	1	0.350mm
030	40403368	BOLT, SOCKET HEAD - Injection pump - Z482	3	
040	40403369	STUD - Injection pump - Z482	1	
050	40403370	NUT, CAP - injection pump - Z482	1	
060	40403371	WASHER, SPRING LOCK - Injection pump - Z482	1	
070	40403372	JOINT, EYE - Injection pump - Z482	1	
080	40403373	SCREW (ROOF, CANOPY) - Injection pump - Z482	1	
090	40403374	GASKET - 1 - Injection pump - Z482	2	
100	40403375	SCREW - Injection pump - Z482	1	
110	40403376	GASKET - 2 - Injection pump - Z482	1	

7.17.Speed Control Plate



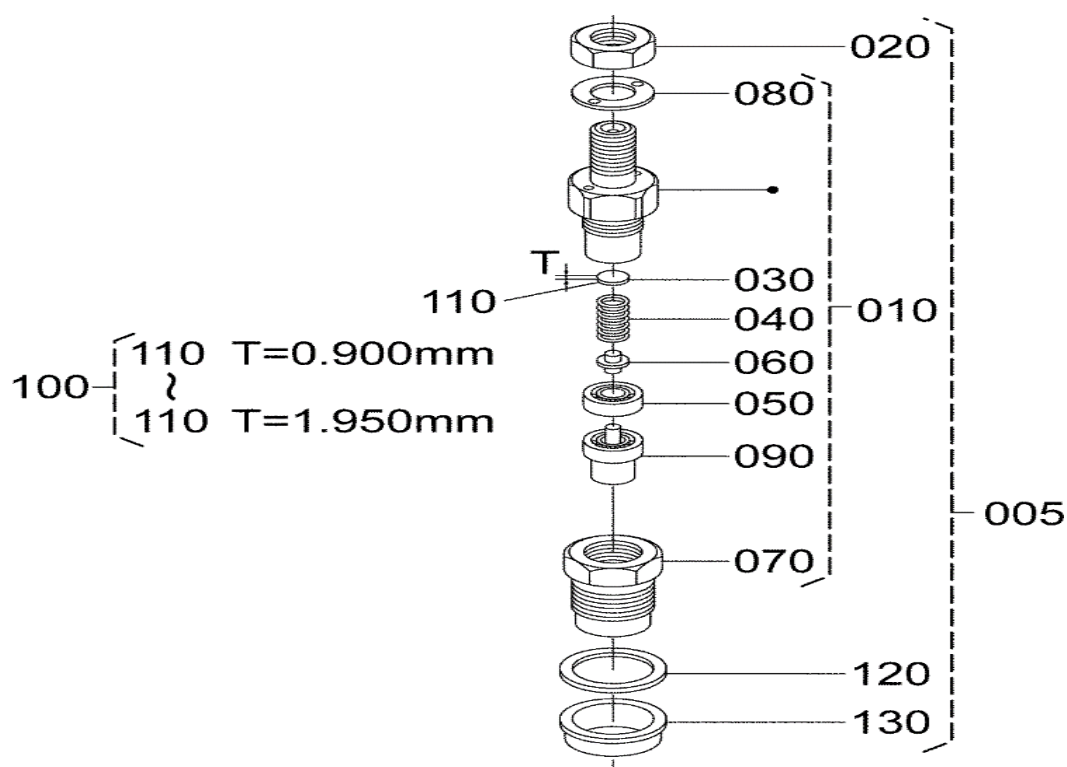
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403377	COMP.PLATE,SPEED CO. - Speed control plate - Z482	1	
020	40403378	PLATE,SPEED CONTROL - Speed control plate - Z482	1	
030	40403379	LEVER,GOVERNOR - Speed control plate - Z482	1	
040	40403380	COLLAR - Speed control plate - Z482	1	
050	40403381	O-RING - Speed control plate - Z482	1	
060	40403382	LEVER,SPEED CONTROL - Speed control plate - Z482	1	
070	40403383	NUT,SPEED CONTROL - Speed control plate - Z482	1	
080	40403384	SHAFT,LEVER - Speed control plate - Z482	1	
090	40403385	LEVER,ENGINE STOP - Speed control plate - Z482	1	
100	40403386	PIN,SPRING - Speed control plate - Z482	1	
110	40403387	O-RING - Speed control plate - Z482	1	
120	40403388	SPRING,RETURN - Speed control plate - Z482	1	
130	40403389	CAP - Speed control plate - Z482	1	
140	40403390	GASKET,CONTROL PLATE - Speed control plate - Z482	1	
150	40403391	BOLT,FLANGE - Speed control plate - Z482	2	
160	40403392	BOLT,SEMS - Speed control plate - Z482	2	
170	40403393	STOPPER - Speed control plate - Z482	1	

7.18. Nozzle holder and glow plugs



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40203433	RETOURLEIDING Z482	1	
020	40403395	ASSY PIPE,OVER FLOW - Nozzle holder and glow plugs - Z482	1	
025	40403396	PIPE,FUEL OVER FLOW - Nozzle holder and glow plugs - Z482	1	
030	40403397	CLIP,PIPE - Nozzle holder and glow plugs - Z482	2	
040	40403398	SCREW, BLEATHER - Nozzle holder and glow plugs - Z482	1	
050	40403399	PACKING - Nozzle holder and glow plugs - Z482	1	
055	40403400	HOLDER,NOZZLE,KIT - Nozzle holder and glow plugs - Z482	2	
060	40403401	HOLDER,NOZZLE,ASSY - Nozzle holder and glow plugs - Z482	2	
065	40403402	NUT - Nozzle holder and glow plugs - Z482	2	
070	40403134	PAKKING VERSTUIVER Z482	2	
075	50202181	BRANDPLAATJE Z482	2	
090	40403403	PIPE, INJECTION - 1 - Nozzle holder and glow	1	
100	40403404	PIPE, INJECTION - 2 - Nozzle holder and glow	1	
110	40403405	CLAMP,PIPE - 1 - Nozzle holder and glow plugs - Z482	1	
120	40403406	CLAMP,PIPE - 2 - Nozzle holder and glow plugs - Z482	1	
130	40403407	SCREW,SEMS(PAN HEAD) - Nozzle holder and glow plugs - Z482	1	
140	40403140	GLOEIBOUGIE Z482/D722/V1505	2	
150	40403408	CORD,GLOW PLUG - Nozzle holder and glow plugs - Z482	1	
160	40403409	NUT,FLANGE - Nozzle holder and glow plugs - Z482	2	

7.19. Nozzle holder (components parts)

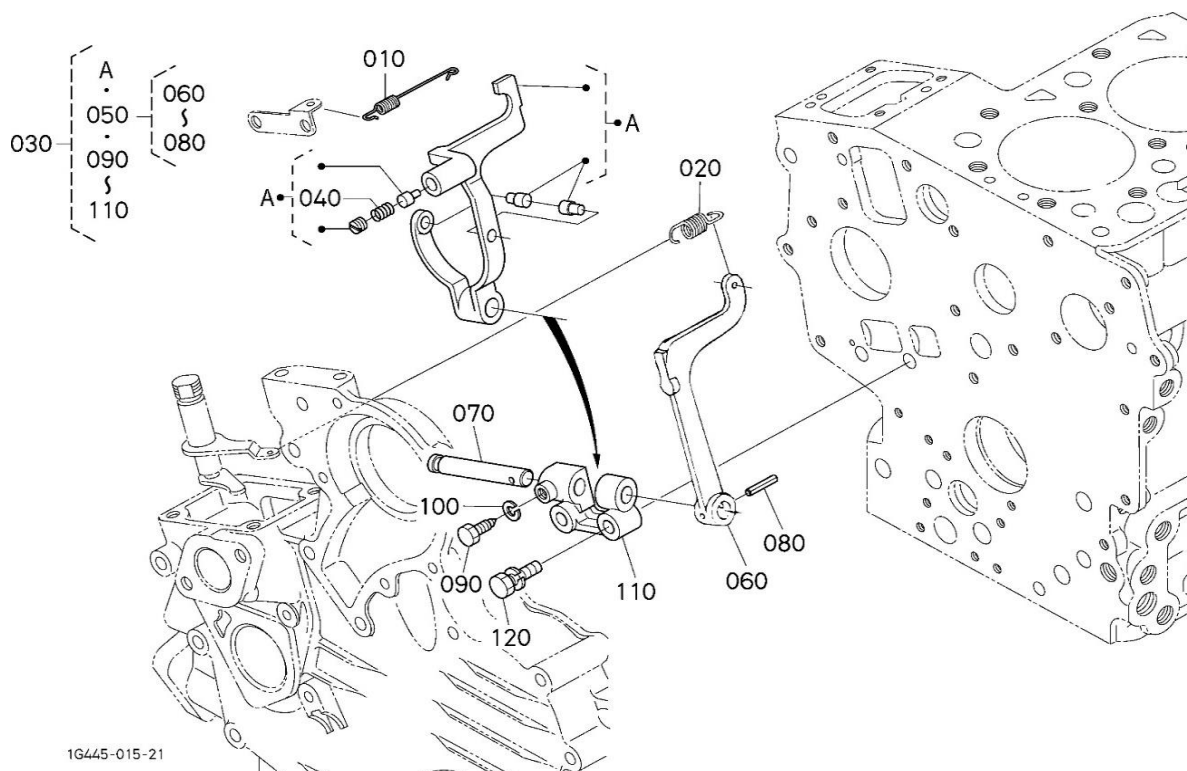


1J322-010 -10

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
005	40403410	HOLDER,NOZZLE,KIT - Nozzle holder (component parts) - Z482	2	
010	40403411	HOLDER,NOZZLE,ASSY - Nozzle holder (component parts) - Z482	2	
020	40403412	NUT - Nozzle holder (component parts) - Z482	2	
030	40403413	WASHER,ADJUSTING - Nozzle holder (component parts) - Z482	2	
040	40403414	SPRING,NOZZLE - Nozzle holder (component parts) - Z482	2	
050	40403415	SPACER,DISTANCE - Nozzle holder (component parts) - Z482	2	
060	40403416	PUSH ROD - Nozzle holder (component parts) - Z482	2	
070	40403417	NUT,NOZZLE - Nozzle holder (component parts) - Z482	2	
080	40201634	PAKKING VERSTUIVER GV15 / GV3 PLUS / SQ15 PRO	2	
090	40403150	NOZZLE VERSTUIVER Z482	2	
100	50202583	SET AFSTANDSCHIJVEN , INJ. POMP - Z482	2	OPTION
110	*	*	2	0.900mm
110	*	*	2	0.925mm
110	*	*	2	0.950mm

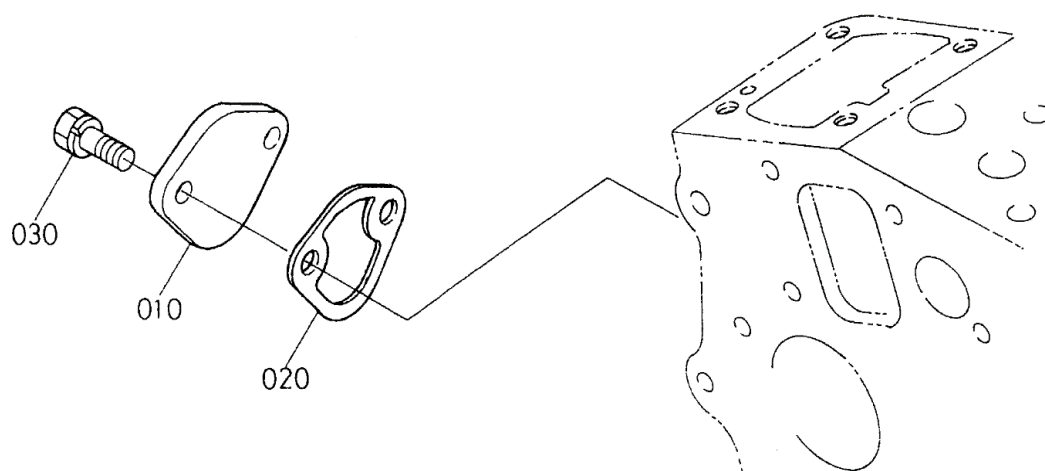
110	*	*	2	0.975mm
110	*	*	2	1.000mm
110	*	*	2	1.025mm
110	*	*	2	1.050mm
110	*	*	2	1.075mm
110	*	*	2	1.100mm
110	*	*	2	1.125mm
110	*	*	2	1.150mm
110	*	*	2	1.175mm
110	*	*	2	1.200mm
110	*	*	2	1.225mm
110	*	*	2	1.250mm
110	*	*	2	1.275mm
110	*	*	2	1.300mm
110	*	*	2	1.325mm
110	*	*	2	1.350mm
110	*	*	2	1.375mm
110	*	*	2	1.400mm
110	*	*	2	1.425mm
110	*	*	2	1.450mm
110	*	*	2	1.475mm
110	*	*	2	1.500mm
110	*	*	2	1.525mm
110	*	*	2	1.550mm
110	*	*	2	1.575mm
110	*	*	2	1.600mm
110	*	*	2	1.625mm
110	*	*	2	1.650mm
110	*	*	2	1.675mm
110	*	*	2	1.700mm
110	*	*	2	1.725mm
110	*	*	2	1.750mm
110	*	*	2	1.775mm
110	*	*	2	1.800mm
110	*	*	2	1.825mm
110	*	*	2	1.850mm
110	*	*	2	1.875mm
110	*	*	2	1.900mm
110	*	*	2	1.925mm
110	*	*	2	1.950mm
120	40403134	PAKKING VERSTUIVER Z482	2	
130	50202181	BRANDPLAATJE OC60 / Z482	2	

7.20. Fork lever (govenor)



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403418	SPRING,START - Fork lever (govenor) - Z482	1	
020	40403419	SPRING,GOVERNOR - Fork lever (govenor) - Z482	1	
030	40403420	ASSY LEVER,FORK - Fork lever (govenor) - Z482	1	
040	40403421	SPRING - Fork lever (govenor) - Z482	1	
050	40403422	LEVER,ASSY(FORK) - Fork lever (govenor) - Z482	1	
060	40403423	LEVER(FORK) - Fork lever (govenor) - Z482	1	
070	40403424	SHAFT,FORK LEVER - Fork lever (govenor) - Z482	1	
080	40403425	PIN,SPRING - Fork lever (govenor) - Z482	1	
090	40403426	BOLT - Fork lever (govenor) - Z482	1	
100	40403427	WASHER,SPRING LOCK - Fork lever (govenor) - Z482	1	
110	40403428	HOLDER,FORK LEVER - Fork lever (govenor) - Z482	1	
120	40403429	BOLT,SEMS - Fork lever (govenor) - Z482	2	

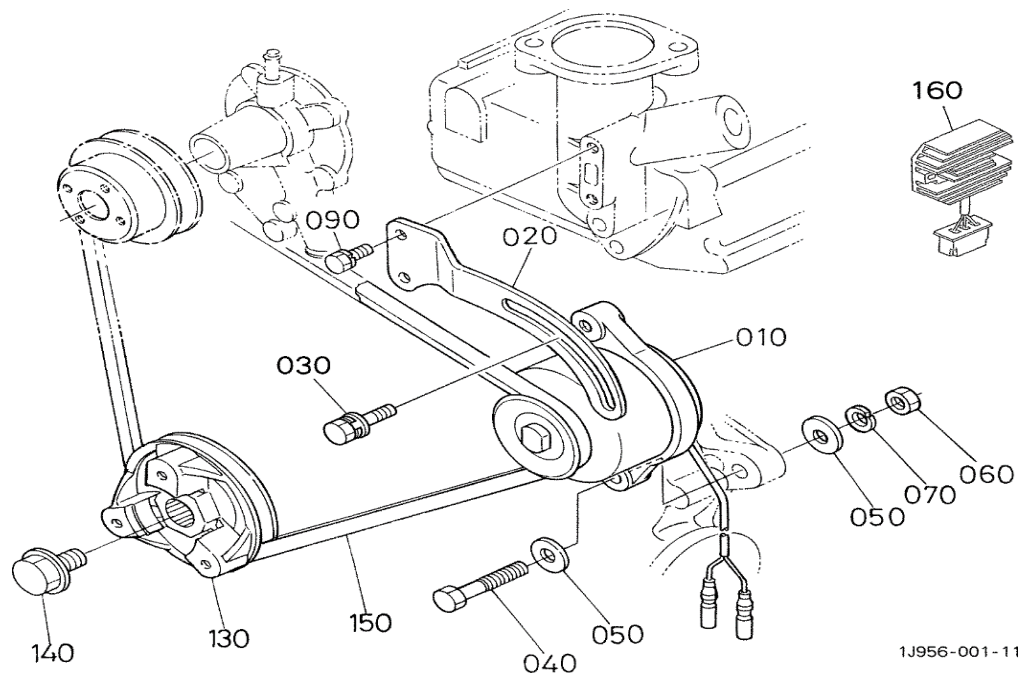
7.21. Govenor



16676-011-10

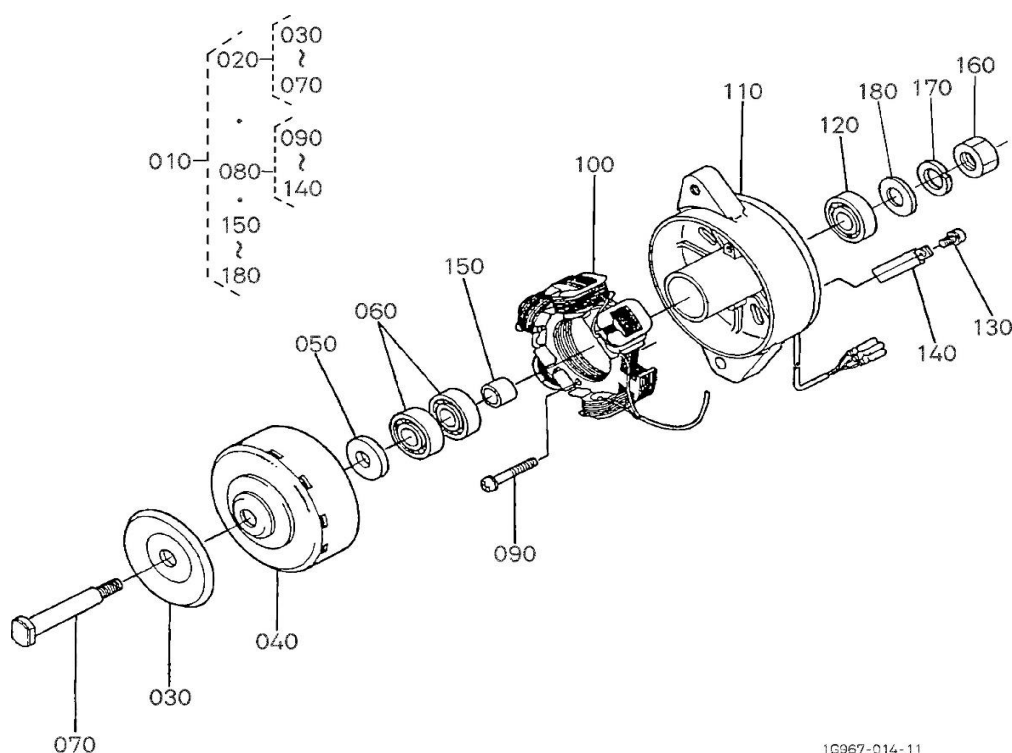
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403430	COVER - Govenor - Z482	1	
020	40403431	GASKET,FUEL PUMP - - Govenor - Z482	1	
030	40403432	BOLT,SEMS - - Govenor - Z482	2	

7.22. Dynamo and Pulley



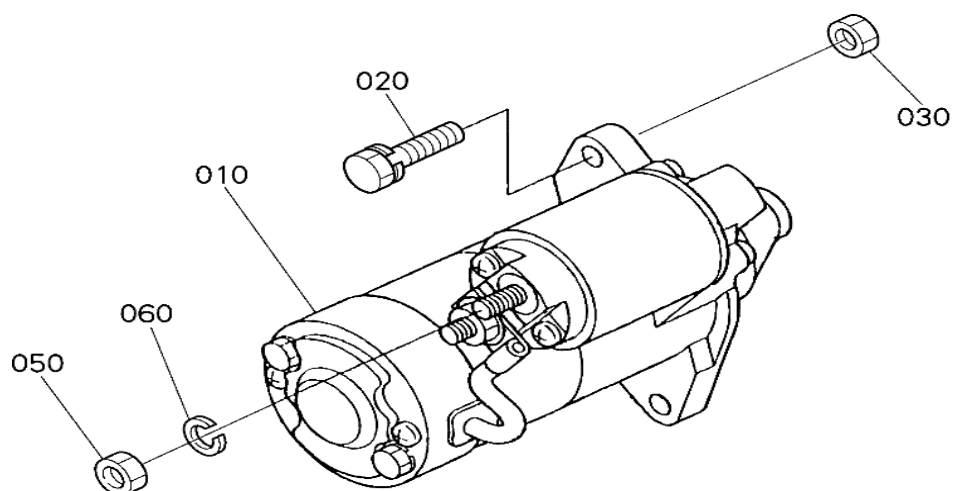
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403187	DYNAMO GV2/3 Z482/D722	1	
020	40403433	STAY,DYNAMO - Dynamo and Pulley - Z482	1	
030	40403434	BOLT - Dynamo and Pulley - Z482	1	
040	40403435	HEX.BOLT - Dynamo and Pulley - Z482	1	
050	40403436	WASHER,PLAIN - Dynamo and Pulley - Z482	2	
060	50202487	NUT K - Z482	1	
070	40403437	WASHER,SPRING LOCK - Dynamo and Pulley - Z482	1	
090	40403438	BOLT,SEMS - Dynamo and Pulley - Z482	2	
130	40403439	PULLEY,FAN DRIVE - Dynamo and Pulley - Z482	1	
140	40403440	BOLT - Dynamo and Pulley - Z482	1	
150	40403441	V BELT 34.5 in - Dynamo and Pulley - Z482	1	34.5in
160	40403184	REGELAAR tbv DYNAMO GV2/3 K (Z482/D722)	1	<=4DXZ999
160	40403442	ASSY REGULATOR - Dynamo and Pulley - Z482	1	>=4DY0001

7.23. Dynamo (component parts)



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403187	DYNAMO GV2/3 K (Z482/D722)	1	
020	40403443	COMP.FLYWHEEL - Dynamo (component parts) - Z482	1	
030	40403444	PULLEY - Dynamo (component parts) - Z482	1	
040	40403445	FLYWHEEL - Dynamo (component parts) - Z482	1	
050	40403446	COLLAR - Dynamo (component parts) - Z482	1	
060	40403447	BEARING,BALL - Dynamo (component parts) - Z482	2	
070	40403448	SHAFT,FAN - Dynamo (component parts) - Z482	1	
080	40403449	COMP.STATOR - Dynamo (component parts) - Z482	1	
090	40403450	SCREW,ROUND HEAD - Dynamo (component parts) - Z482	2	
100	40403451	STATOR - Dynamo (component parts) - Z482	1	
110	40403452	PLATE - Dynamo (component parts) - Z482	1	
120	40403453	BEARING,BALL - Dynamo (component parts) - Z482	1	
130	40403454	SCREW,ROUND HEAD - Dynamo (component parts) - Z482	1	
140	40403455	CLAMP,CORD - Dynamo (component parts) - Z482	1	
150	40403456	COLLAR - Dynamo (component parts) - Z482	1	
160	40403457	NUT - Dynamo (component parts) - Z482	1	
170	40403458	WASHER,SPRING - Dynamo (component parts) - Z482	1	
180	40403459	WASHER,PLAIN - Dynamo (component parts) - Z482	1	

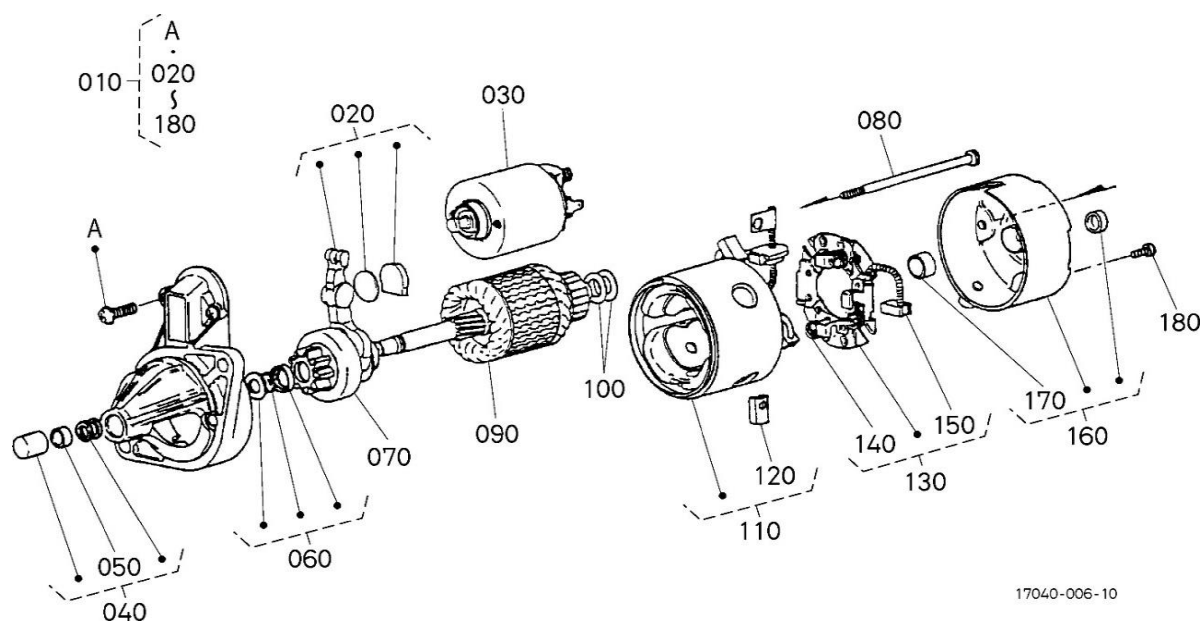
7.24. Starter



1G449-021-11

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403180	STARTMOTOR Z482	1	<= 4EXZ999
010	40403180	STARTMOTOR Z482	1	>= 4EY0001
020	40403460	BOLT,SEMS - Starter - Z482	2	
030	50202487	NUT K - Z482	2	
050	50202487	NUT K - Z482	1	
060	40403461	WASHER,SPRING LOCK - Starter - Z482	1	

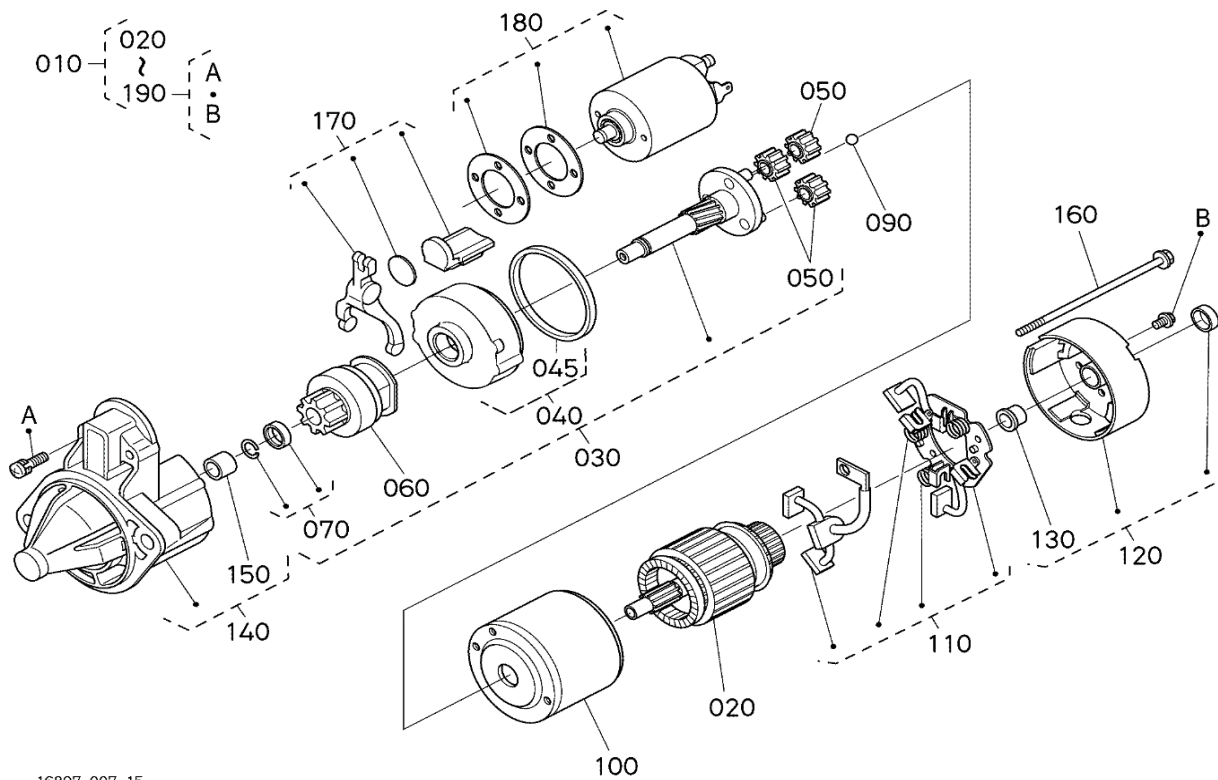
7.25. Starter (component parts)



17040-006-10

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403180	STARTMOTOR Z482	1	12V 0.8KW
020	40403462	LEVER,DRIVE - Starter (component parts) - Z482	1	
030	40403463	SWITCH,MAGNETIC - Starter (component parts) - Z482	1	
040	40403464	FRAME,DRIVE END - Starter (component parts) - Z482	1	
050	40403465	BUSH - Starter (component parts) - Z482	1	
060	40403466	STOPPER - Starter (component parts) - Z482	1	
070	40403467	CLUTCH,OVER RUNNING - Starter (component parts) - Z482	1	
080	40403468	BOLT - Starter (component parts) - Z482	2	
090	40403469	ARMATURE - Starter (component parts) - Z482	1	
100	40403470	WASHER,ADJUSTING - Starter (component parts) - Z482	1	
110	40403471	YOKE - Starter (component parts) - Z482	1	
120	40403472	BRUSH - Starter (component parts) - Z482	2	
130	40403473	HOLDER,BRUSH - Starter (component parts) - Z482	1	
140	40403474	SPRING,BRUSH - Starter (component parts) - Z482	3	
150	40403475	BRUSH - Starter (component parts) - Z482	1	
160	40403476	FRAME,END - Starter (component parts) - Z482	1	
170	40403477	BUSH - Starter (component parts) - Z482	1	
180	40403478	SCREW,PAN-HEAD - Starter (component parts) - Z482	1	

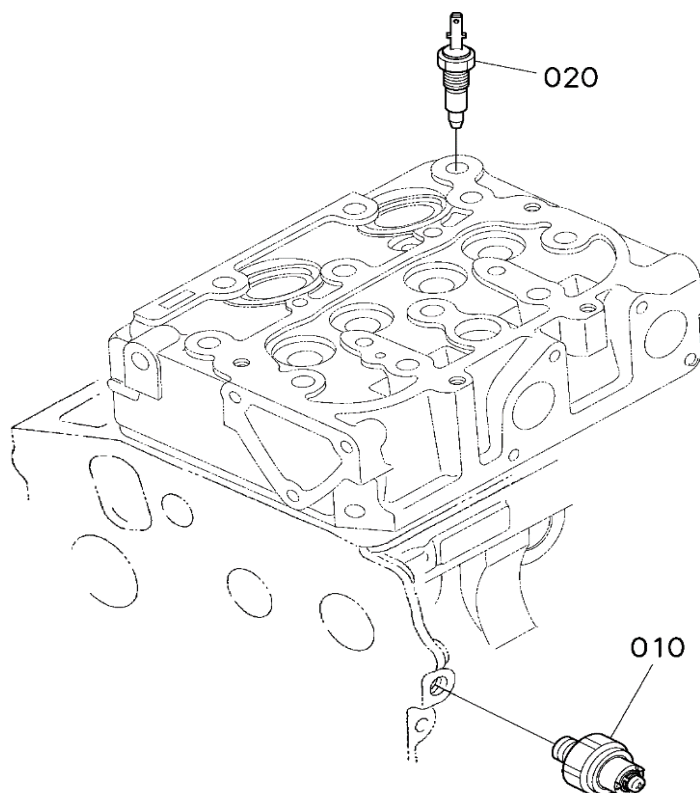
7.26. Starter (component parts) 2



16897-007-15

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403479	STARTER,ASSY - Starter (component parts) - Z482	1	12V 0.95KW
020	40403480	ARMATURE - Starter (component parts) - Z482	1	
030	40403481	SHAFT,ASSY(CLUTCH SET) - Starter (component parts) - Z482	1	
040	40403482	GEAR,INTERNAL,ASSY - Starter (component parts) - Z482	1	
045	40403483	GASKET - Starter (component parts) - Z482	1	
050	40403484	GEAR,PLANETARY - Starter (component parts) - Z482	1	
060	40403485	CLUTCH,OVER RUNNING - Starter (component parts) - Z482	1	
070	40403486	STOPPER - Starter (component parts) - Z482	1	
090	40403487	BALL - Starter (component parts) - Z482	1	
100	40403488	YOKE - Starter (component parts) - Z482	1	
110	40403489	HOLDER,ASSY(BRUSH) - Starter (component parts) - Z482	1	
120	40403490	ASSY BRACKET,REAR - Starter (component parts) - Z482	1	
130	40403491	BUSH - Starter (component parts) - Z482	1	
140	40403492	ASSY,BRACKET(FRONT) - Starter (component parts) - Z482	1	
150	40403493	BUSH - Starter (component parts) - Z482	1	
160	40403494	BOLT - Starter (component parts) - Z482	1	
170	40403495	LEVER,FORK - Starter (component parts) - Z482	1	
180	40403496	SWITCH,MAGNETIC - Starter (component parts) - Z482	1	
190	40403497	SCREW,PAN-HEAD - Starter (component parts) - Z482	1	

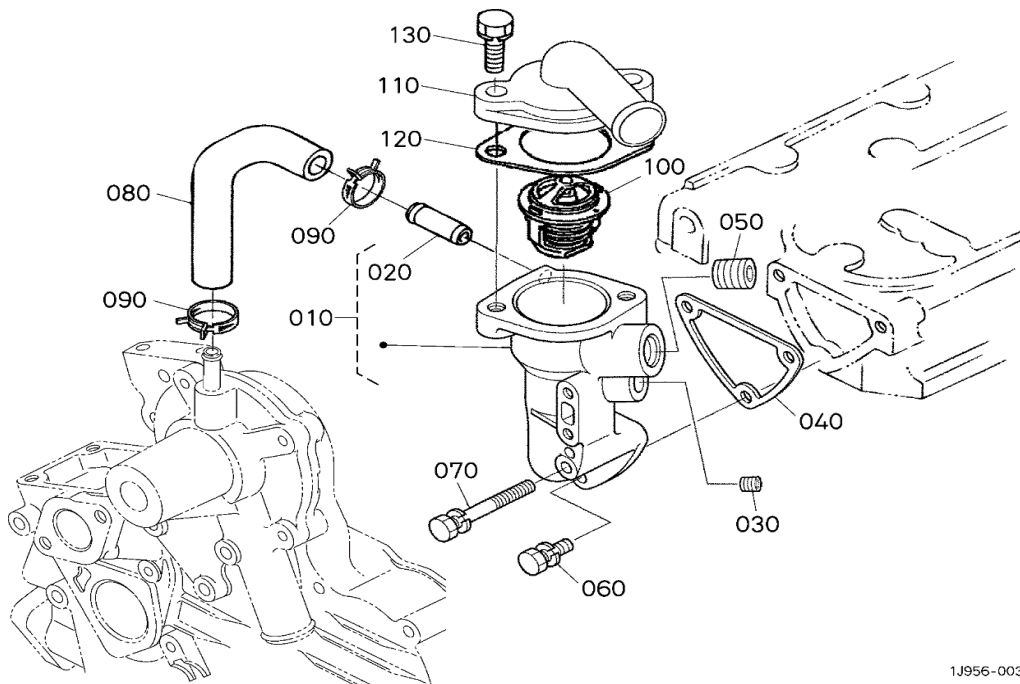
7.27. Oil Switch and thermometer



1J956-021-10

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403498	SWITCH,OIL - Oil switch and thermometer - Z482	1	<=4HHZ999
010	40403499	SWITCH,OIL - Oil switch and thermometer - Z482	1	>=4HJ0001
010	40403500	SWITCH - Oil switch and thermometer - Z482	1	>=4HW0001
020	40403501	SWITCH,THERMOMETER - Oil switch and thermometer - Z482	1	

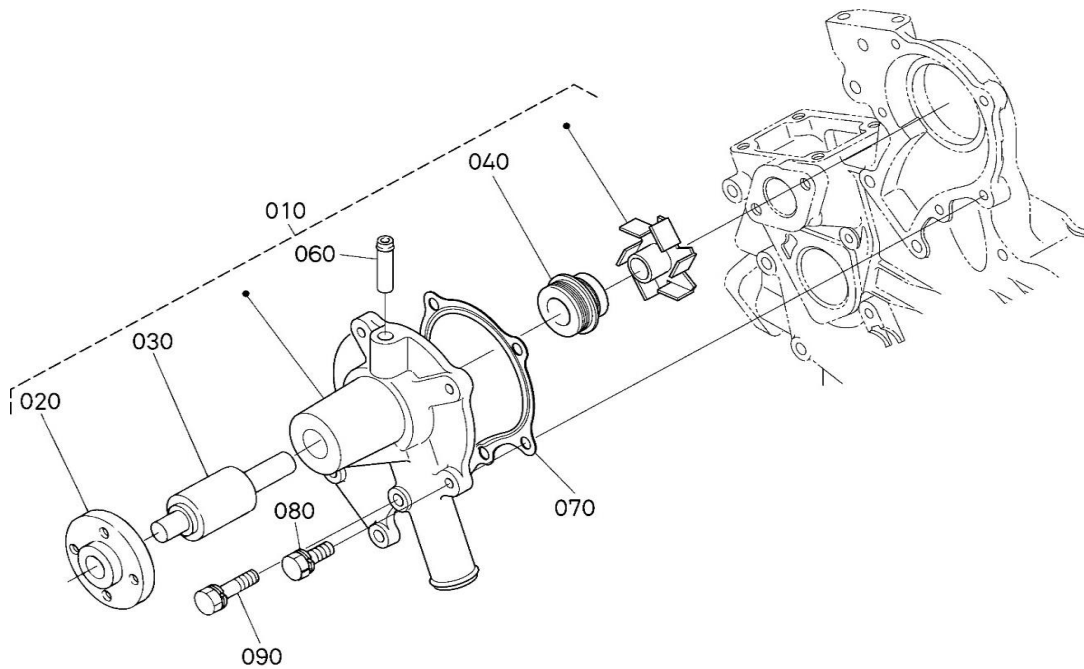
7.28. Water flange and thermostat



1J956-003-11

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403502	COMP FLANGE,WATER - Water flange and thermostat - Z482	1	
020	40403503	PIPE,WATER RETURN - Water flange and thermostat - Z482	1	
030	40403504	PLUG - Water flange and thermostat - Z482	1	
040	40403505	GASKET,WATER FLANGE - Water flange and thermostat - Z482	1	
050	40403506	PLUG - Water flange and thermostat - Z482	1	
060	40403507	BOLT,SEMS - Water flange and thermostat - Z482	2	
070	40403508	BOLT,SEMS - Water flange and thermostat - Z482	1	
080	40403509	PIPE,WATER RETURN - Water flange and thermostat - Z482	1	
090	40403510	CLAMP,HOSE - Water flange and thermostat - Z482	2	
100	40403145	THERMOSTAAT Z482/D722	1	
110	40401818	THERMOSTAATHUIS Z482/D722	1	
120	40403138	PAKKING THERMOSTAATHUIS GV2/SQ15 PRO K	1	
130	40403511	BOLT,SEMS - Water flange and thermostat - Z482	2	

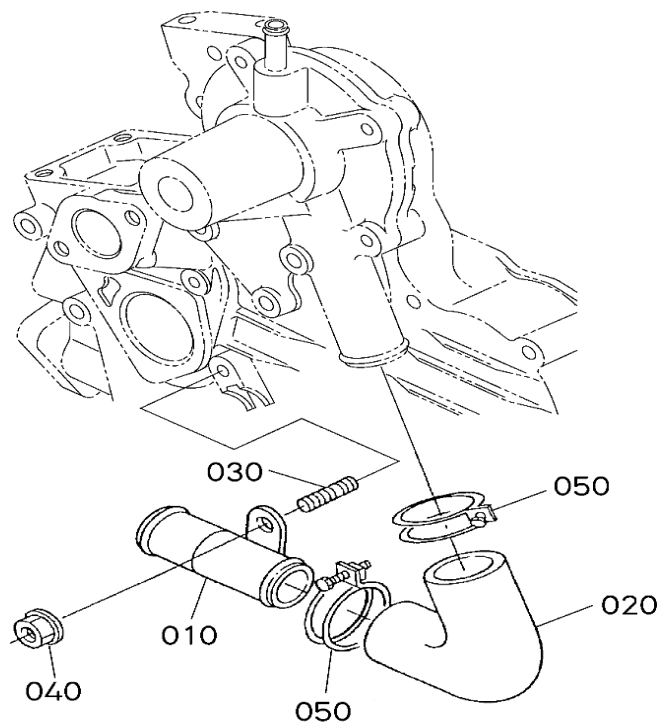
7.29. Water Pump



1G460-022-23

No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40202049	CIRCULATIEPOMP Z482/D722	1	
020	40403512	FLANGE,WATER PUMP - Water pump - Z482	1	
030	40403513	BEARING - Water pump - Z482	1	
040	40403514	ASSY SEAL,MECHANICAL - Water pump - Z482	1	<=4HFZ999
040	40403515	SEAL,MECH,ASSY - Water pump - Z482	1	>=4HG0001
060	40403516	PIPE,WATER RETURN - Water pump - Z482	1	
070	40202050	PAKKING CIRCULATIEPOMP Z482/D722	1	
070	40202050	PAKKING CIRCULATIEPOMP Z482/D722	1	
080	40403517	BOLT,SEMS - 1 - Water pump - Z482	4	
090	40403518	BOLT,SEMS - 2 - Water pump - Z482	1	

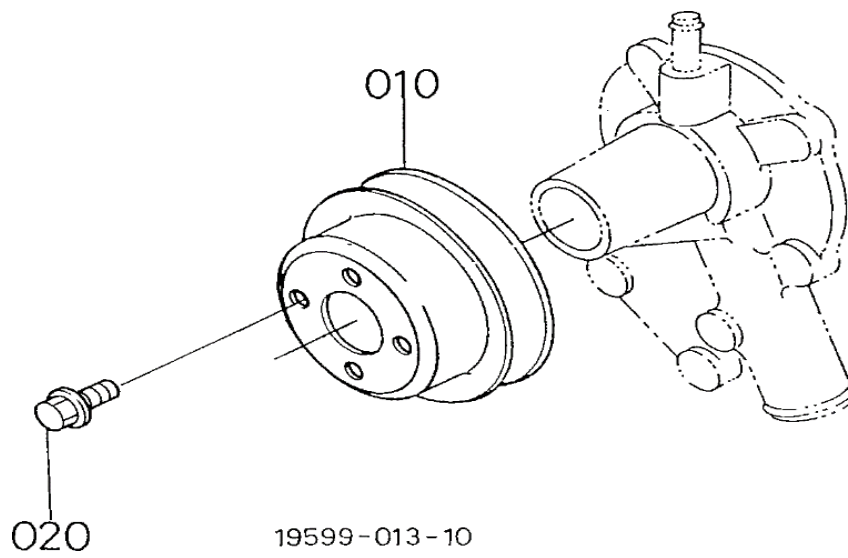
7.30. Water Pipe



1G957-081-10

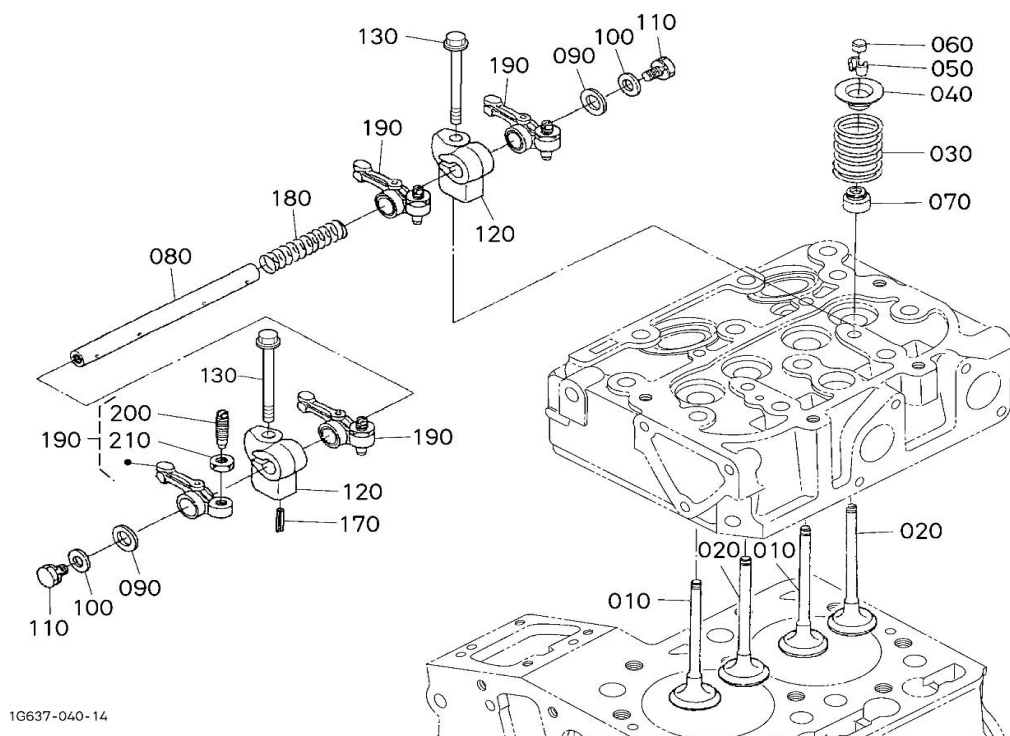
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403519	PIPE,WATER - Water pipe - Z482	1	
020	40403520	HOSE,WATER - Water pipe - Z482	1	
030	40403521	STUD - Water pipe - Z482	1	
040	40403522	NUT,FLANGE - Water pipe - Z482	1	
050	40403523	BAND,PIPE - Water pipe - Z482	2	

7.31.Fan



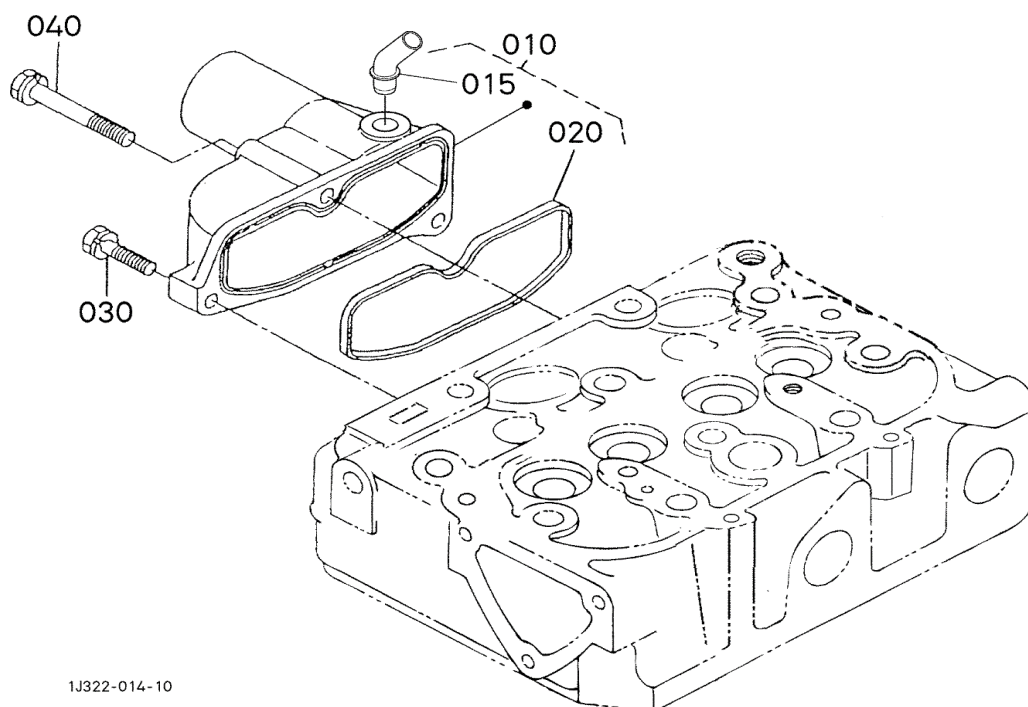
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403524	PULLEY,FAN - Fan - Z482	1	
020	40403525	BOLT,FLANGE - Fan - Z482	4	

7.32. Valve and Rocker Arm



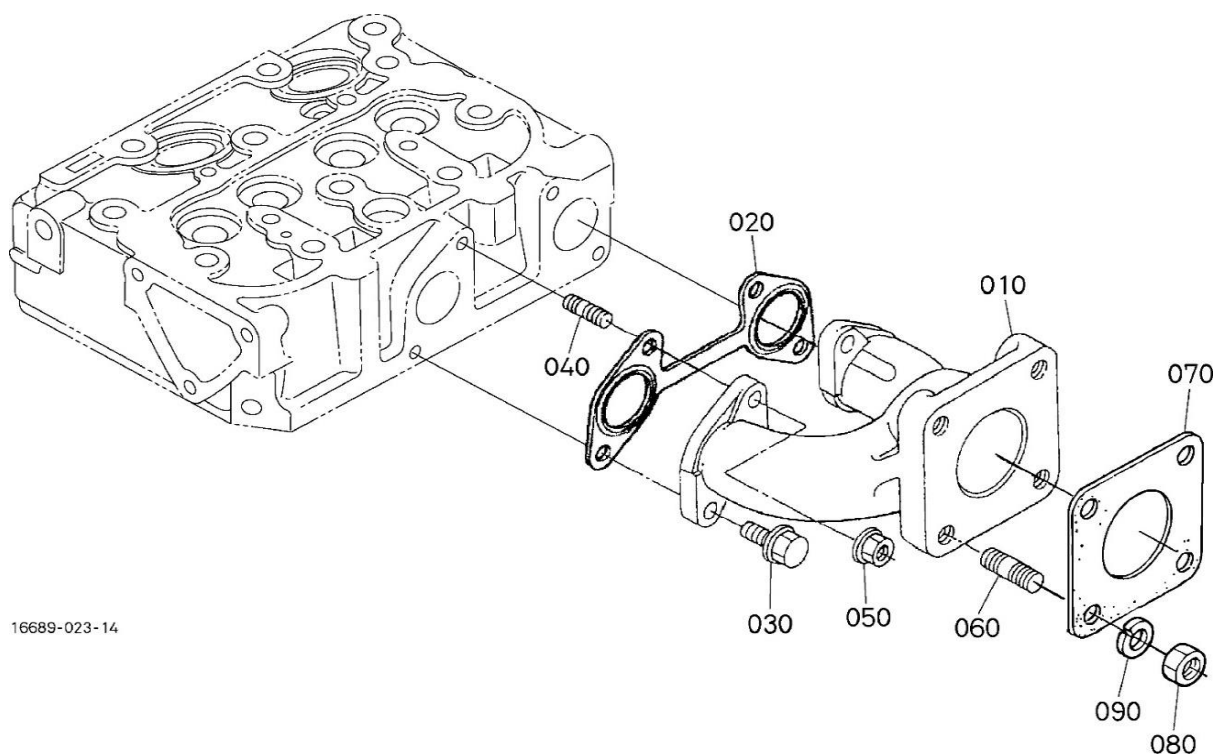
No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403526	VALVE,INLET - Valve and rocker arm - Z482	2	
020	40403527	VALVE,EXHAUST - Valve and rocker arm - Z482	2	
030	40403528	SPRING,VALVE - Valve and rocker arm - Z482	4	
040	40403529	RETAINER(VALVE SPRING) - Valve and rocker arm - Z482	4	
050	40403530	COLLET,VALVE SPRING - Valve and rocker arm - Z482	4	SET
060	40403531	CAP,VALVE - Valve and rocker arm - Z482	4	
070	50202035	KLEPSEAL OC60/Z482	4	
080	40403532	SHAFT,ROCKER ARM - Valve and rocker arm - Z482	1	
090	40403533	WASHER - Valve and rocker arm - Z482	2	
100	40403534	WASHER,PLAIN - Valve and rocker arm - Z482	2	
110	40403535	BOLT,SEMS - Valve and rocker arm - Z482	2	
120	40403536	BRACKET,ROCKER ARM - Valve and rocker arm - Z482	2	
130	40403537	BOLT,FLANGE - Valve and rocker arm - Z482	2	
170	40403538	PIN,SPRING - Valve and rocker arm - Z482	1	
180	40403539	SPRING,ROCKER ARM - Valve and rocker arm - Z482	1	
190	40403540	ARM,ROCKER,ASSY - Valve and rocker arm - Z482	4	
200	40403541	SCREW,ADJUSTING - Valve and rocker arm - Z482	4	
210	40403542	NUT - Valve and rocker arm - Z482	4	

7.33. Inlet manifold



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403543	ASSY MANIFOLD,INLET - Inlet manifold - Z482	1	
015	40403544	PIPE (BREATHER) - Inlet manifold - Z482	1	
020	40403545	GASKET,IN- MANIFOLD - Inlet manifold - Z482	1	
030	40403546	BOLT,FLANGE - Inlet manifold - Z482	2	
040	40403547	BOLT,SEMS - Inlet manifold - Z482	1	

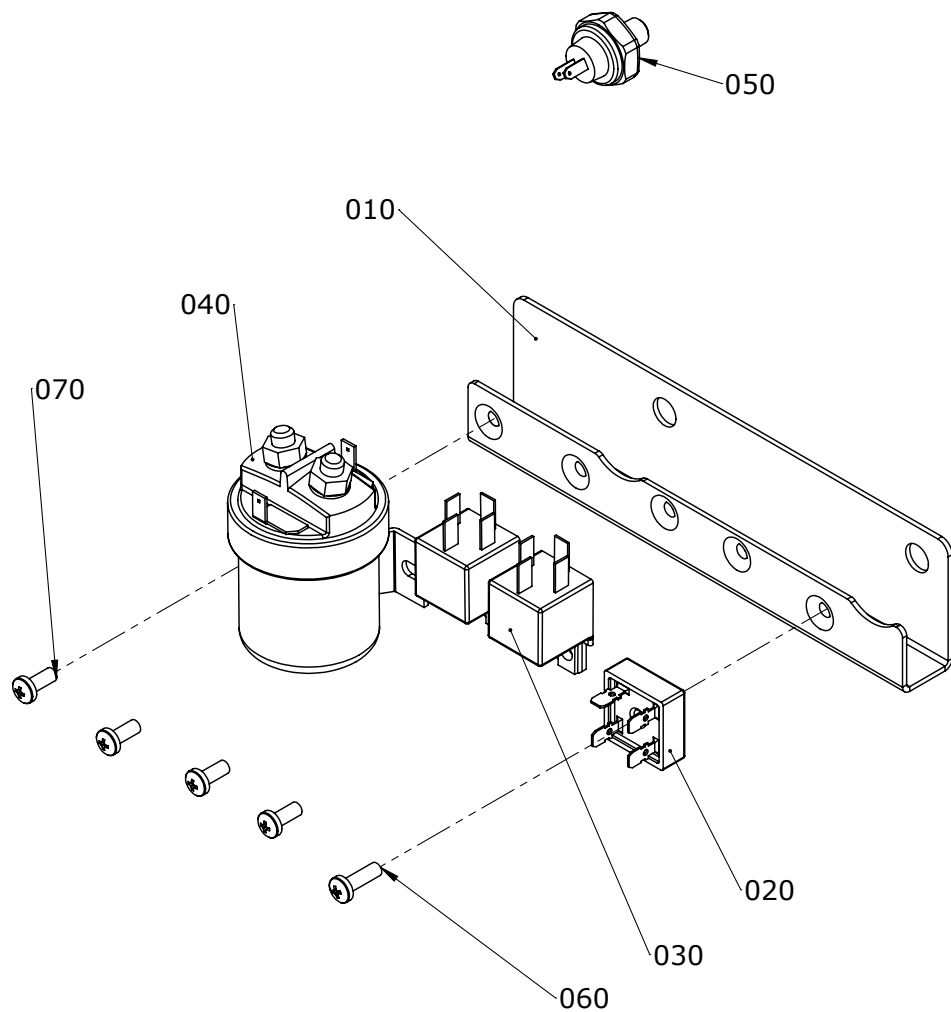
7.34. Exhaust Manifold



No.	WP Art. Nr.	WP Art. Description	Qty.	Remarks
010	40403548	MANIFOLD,EXHAUST - Exhaust manifold - Z482	1	
020	40403549	GASKET - Exhaust manifold - Z482	1	
030	40403550	BOLT,UBS - Exhaust manifold - Z482	2	
040	40403551	BOLT,STUD - 1 - Exhaust manifold - Z482	2	
050	40403552	NUT,UBS - Exhaust manifold - Z482	2	
060	40403553	BOLT,STUD - 2 - Exhaust manifold - Z482	4	
070	40403554	PACKING,MUFFLER - Exhaust manifold - Z482	1	
080	40403555	HEX.NUT - Exhaust manifold - Z482	4	
090	40403556	WASHER,SPRING LOCK - Exhaust manifold - Z482	4	

8. Options

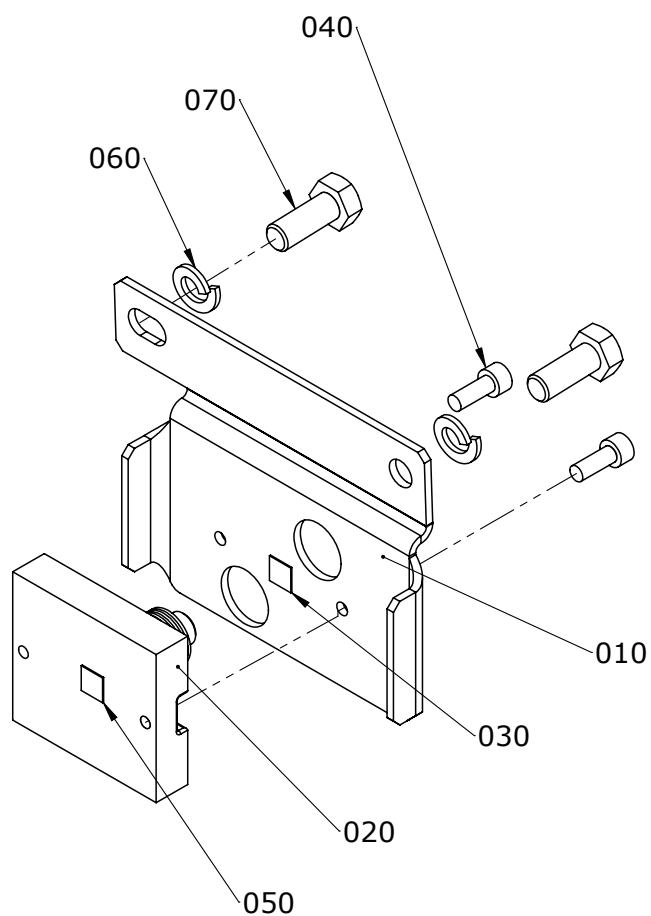
8.1. Mass Free Kit GV Generators



WP Art. Nr. Mass Free kit GV Generators: 40401195

No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
010	40403045	Bracket relais mass free kit GV2-3 cyl	1	
020	50252053	Diode brug 15 A 35 VAC	1	
030	50212218	RELAIS MET STEUN 12V30A - W3.5 MOD.	2	
040	50212220	RELAY GROUNDING (BOSCH 0 333 006 004)	1	
050	50209205	OILPRESSURE SWITCH 0-5 BAR G1-8 BSPT	1	
060	50211316	SCREW CH ZP SLOTTED M5X16	1	
070	50211353	SCREW POSIDRIV A2 M5X12	4	
080	NOT_REQUIRED	Cable Loom Mass Free GV2 cyl	1	On request

8.2. Kit Power Resistor 250W



WP Art. Nr. Kit Power Resistor 250W 40230015

No.	WP Art. Nr.	WP Art. description	Qty.	Remarks
010	40201817	fixation plate Power Resistor 250 W L2 Kub-Mit 2-3 cyl	1	
020	50212705	Power Restrictor Meggitt	1	
030	50222034	Glue component TA610	1	
040	50211226	Hexagon socket head cap screw DIN 912 Steel Zinc plated 8.8 M6X16	2	
050	50222034	Glue component TA610	1	
060	50211447	Washer spring M10	2	
070	50211197	Hexagon Head Screw ZP 8.8 M10X1,25X25	2	



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