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15 - Engine

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Disassemble and Assemble

Refer to: PIL 15-36-00.

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Operation

The knock sensors detect pre-ignition (knock) by means of sensing engine vibration. The vibration signal is sent to the engine ECM (Engine Control Module)where the ECM will adjust the fuel timing to give optimum performance, economy and driveability and prevent engine damage. The voltage signal is proportional to engine vibration/acceleration.

Check (Operation)

1. For the full inspection and testing procedure, refer to the help files in ServiceMaster.

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Remove and Install

This part is a non-serviceable component, if it is defective, replace the complete common rail assembly. Refer to: PIL 18-18-12.

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Table 201. Colour key-Oil flow and pressure

	Full pressure
	Exhaust
	Neutral

Variable speed

The engine cooling pack is cooled by a hydraulically powered cooling fan motor.

The fan speed is controlled by the right hand instrument ECU (Electronic Control Unit).

The engine air temperature sensor sends a signal over the machine CAN (Controller Area Network)bus to inform the right hand instrument ECU of the ambient air temperature.

The ECU varies the speed of the fan motor according to the temperature signals, the fan will be at a higher speed in high temperatures and a lower speed in low temperatures.

The ECU generates the correct PWM (Pulse Width Modulation) signal for operation of the fan speed proportional solenoid.

The proportional solenoid operates as a pressure reducing valve. The supply to the fan motor is at a pressure in relation to the ambient temperature.

The fan speed sensor sends a signal to the ECU to record current fan speed.

A reversible fan option is provided where an operator switch energises the fan direction solenoid to reverse the direction of the fan.

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Figure 727.

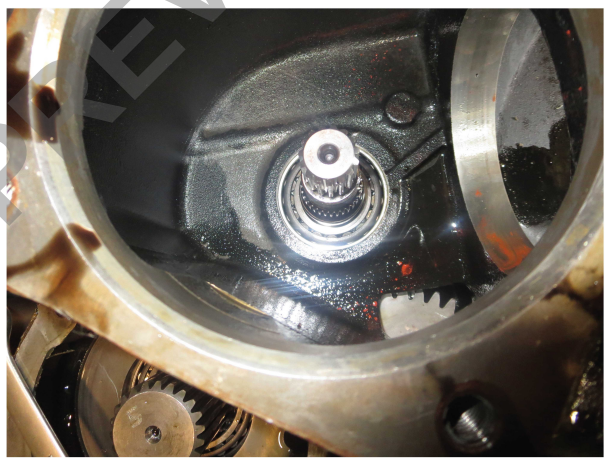


25. Remove the spacer.

Figure 728.



Figure 729.



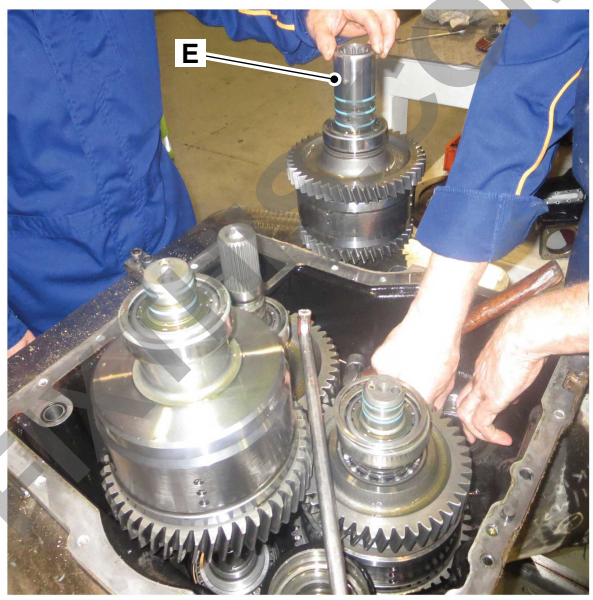
26. Invert the transmission.

27. Use the correct lifting equipment to remove the bolts and separate the gear box housing. Take care the bearing races are not an interference fit and may drop out during this procedure.

28. Remove the gear train components:

    28.1. Remove the pump clutch.

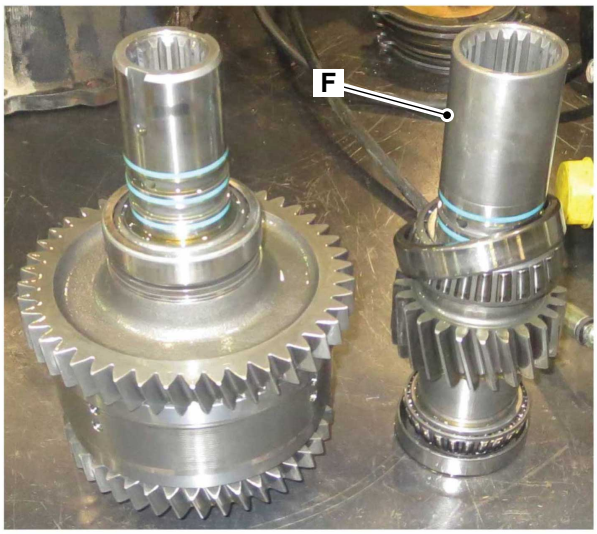
Figure 730.



E Pump clutch

    28.2. Remove the pump shaft and bearing races.

Figure 731.



F Pump shaft

    28.3. Use the special clutch lifter tool to help to remove the remaining gear train components.

    Special Tool: Clutch Lifter Tool (Qty.: 1)

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Table 378. Some gears fail to engage or lack power.

Cause	Remedy
Gear selector column switch defective.	Check the function of the gear selector column switch.
	Inspect the condition of the associated electrical wiring, plugs and connectors for damage and check that the relevant fuses are intact.
The relevant solenoid valve is not being energised.	Inspect the condition of the associated electrical wiring, plugs and connectors for damage and check that the relevant fuses are intact.
Solenoid coil faulty.	Check the solenoid for open or short circuits. Measure the solenoid coil resistance. If required, install new solenoid coil.
Clutch operating oil pressure low.	Carry out oil pressure and flow tests. Refer to driveline- semi-automatic gearbox, refer to (PIL 27-06).
Failure of clutch assembly.	Check for clutch internal leakage. Carry out oil pressure and flow tests. Refer to driveline- semi-automatic gearbox, refer to (PIL 27-06).
	Check for clutch slippage. Carry out torque converter stall tests to confirm stall speeds are within specification. Refer to driveline- Torque converter, refer to (PIL 27-14).
	Remove and disassemble the gearbox. Inspect relevant clutch components for signs of damage or excessive wear. Install new as applicable.

Table 379. Gearbox oil overheating.

Cause	Remedy
Oil cooler heat exchanger matrix clogged with dirt particles or chaff. (Air blast coolers only. Some machines have liquid to liquid type coolers.)	Clean the oil cooler matrix. Refer to operators manual.
Gearbox oil contaminated or wrong grade.	Investigate the reason for the contamination and rectify as required. Drain the oil and flush the gearbox. Refer to driveline- semi-automatic gearbox, refer to (PIL 27-06).
Suction strainer restricted or blocked.	Remove the suction strainer and clean or renew as applicable. Refer to driveline- semi-automatic gearbox, refer to (PIL 27-06).
Oil cooler hoses kinked or trapped.	Clear the restriction. Inspect the hose routing and reroute or renew the hoses as applicable.
Machine being operated incorrectly i.e. Incorrect gear ratio.	Educate the operator.
Torque converter relief valve defective.	Carry out oil pressure and flow tests. Refer to driveline- semi-automatic gearbox, refer to (PIL 27-06).
Failure of oil pump assembly.	Carry out oil pressure and flow tests. Refer to driveline- semi-automatic gearbox, refer to (PIL 27-06).
	Remove the gearbox and inspect oil pump for signs of damage or excessive wear. Install new the pump as applicable.

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Temperature °C (°F)	Sensor Resistance Ω
145	205.5
150	182.6

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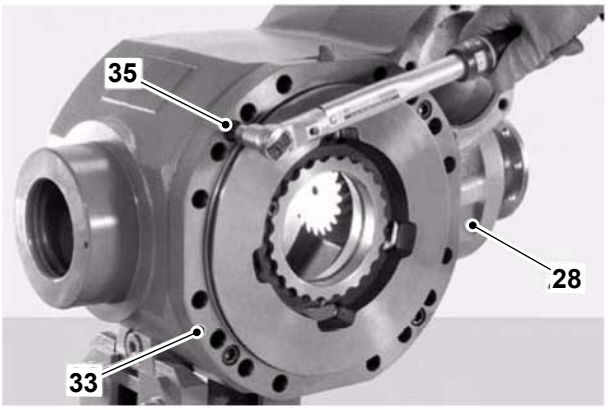
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6. Install the intermediate cover 1 on the opposite side of the ring gears. Lock the cover with stud bolt 1 coated with JCB sealant.

   Consumable: JCB Threadlocker and Sealer (Medium Strength)

7. Tighten the stud bolts to the specified torque value. Refer to Figure 1078.

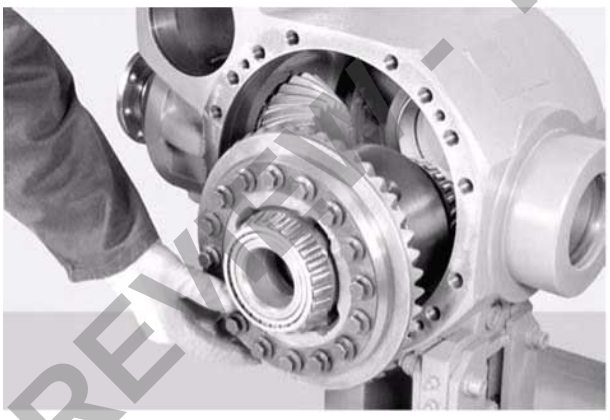
Figure 1078.



28 Main body
33 Intermediate cover 1
35 Stud bolt 1

8. Position the differential unit in the central body with the help of a bar and install the middle cover. Refer to Figure 1079.

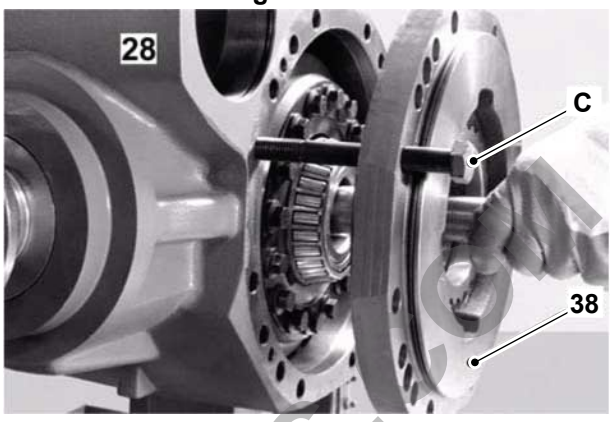
Figure 1079.



9. Tighten the two safety screws into the main body and install the intermediate cover.

10. Tighten the safety screws to the specified torque value. Refer to Figure 1080.

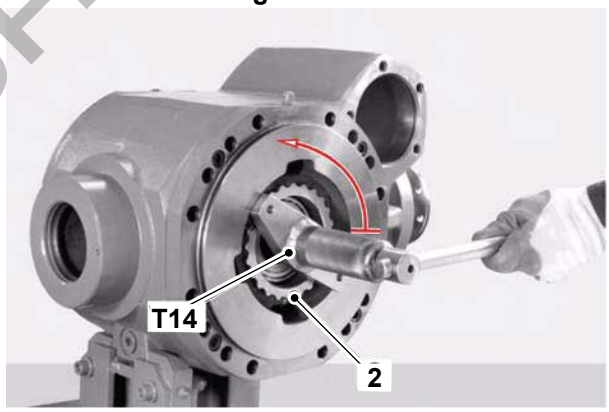
Figure 1080.



C Safety screws
28 Main body
38 Intermediate cover 2

11. If the ring nuts have been removed, tighten the ring nut 1 on the gear ring side until the clearances between pinion and gear ring are zeroed. Then, loosen by about 1/4 turn. Refer to Figure 1081.

Figure 1081.



T14 Dana tool T14
2 Ring nut 1

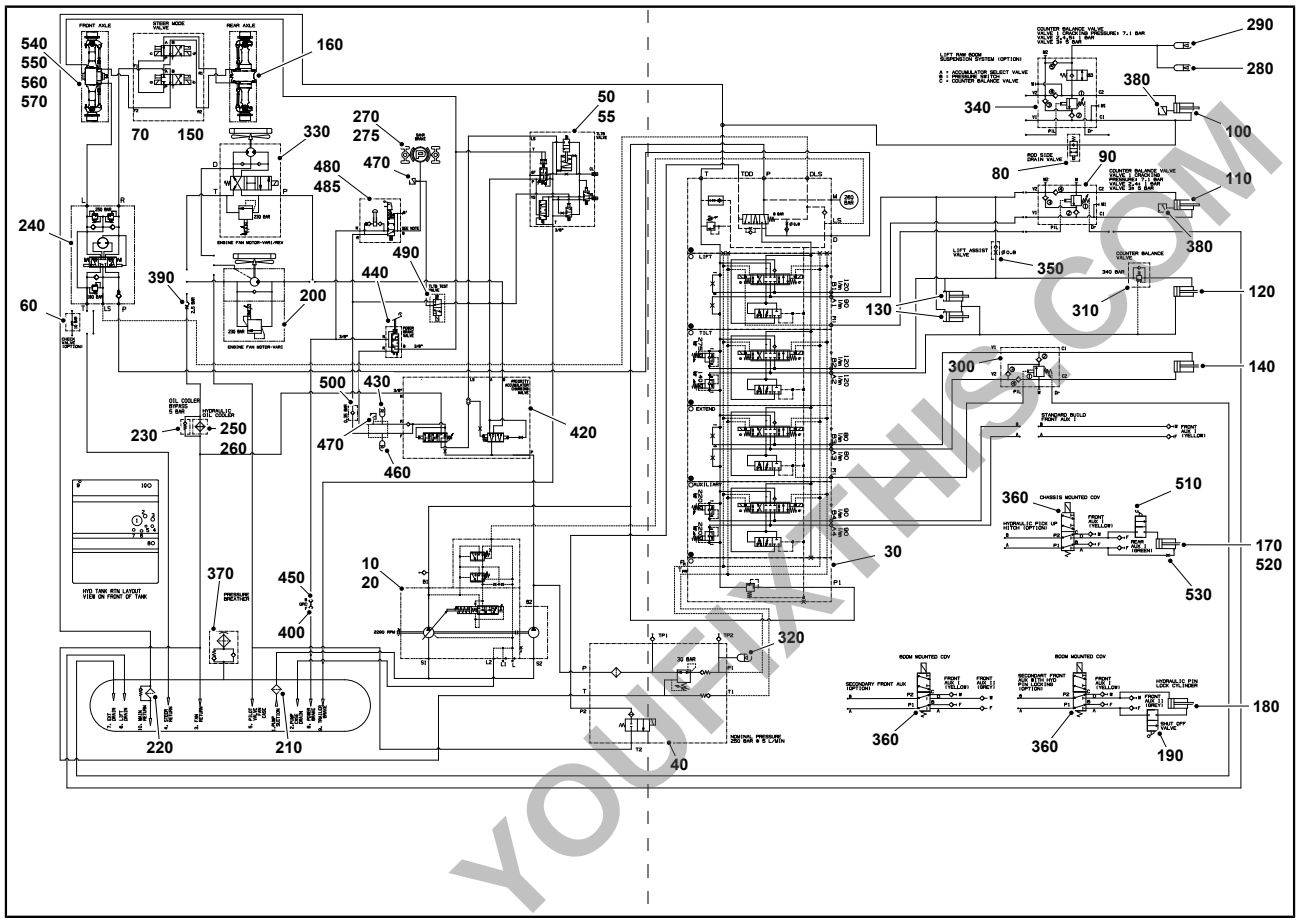
12. If the ring nuts have been removed, preload the bearings with the ring nut 2 on the non-gear ring side in order to increase the torque of the pinion. Refer to Figure 1082.

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Page 30-32

Figure 1376.

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Remove and Install

For: 531-70 [5XA], 535-95 [5XB], 536-60 [5XC], 536-70 [5XE], 541-70 [5XD], 550-80 [5YW], 560-80 [5YY] ..... Page 30-175
For: 531-70 [5XA], 535-95 [5XB], 536-60 [5XC], 536-70 [5XE], 541-70 [5XD], 550-80 [5YW], 560-80 [5YY] ..... Page 30-176

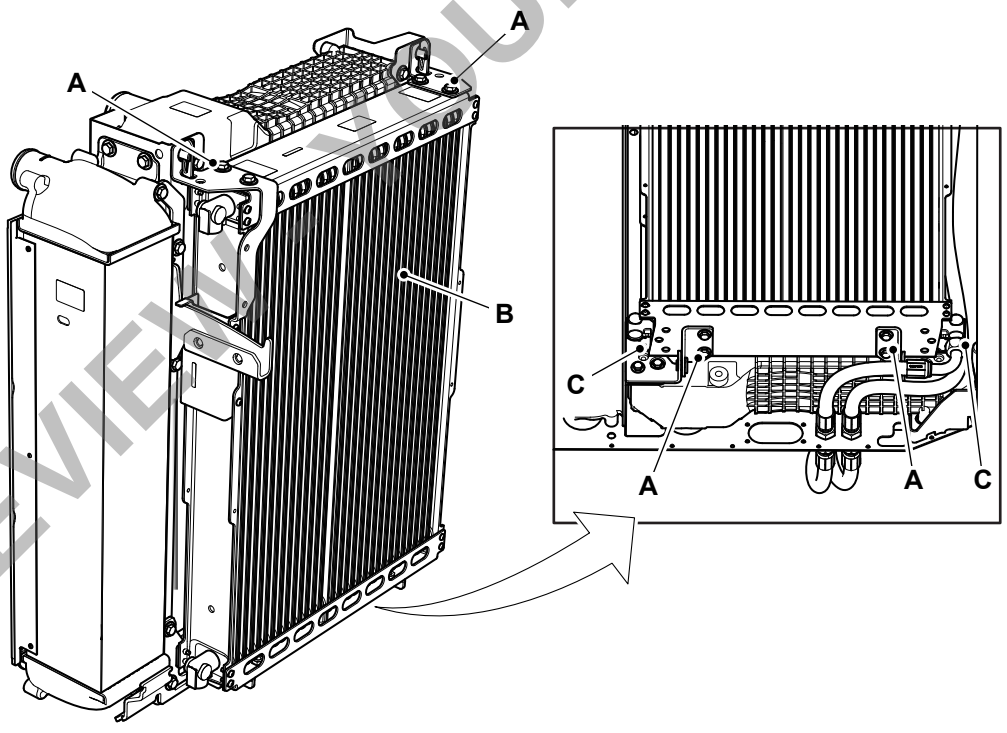
(For: 531-70 [5XA], 535-95 [5XB], 536-60 [5XC], 536-70 [5XE], 541-70 [5XD], 550-80 [5YW], 560-80 [5YY])

The hydraulic oil cooler is a combination cooler. The right hand side is used for transmission oil cooling and the left hand side is used for hydraulic oil cooling. If the transmission or hydraulic oil cooler has failed the complete unit must be replaced.

Remove

1. Make the machine safe. Refer to (PIL 01-03).
2. If the engine is hot let it cool for the specified time.
   Duration: 1h
3. Discharge the hydraulic pressure from the system. Refer to health and safety (PIL 30-00)
4. Open the engine cover. Refer to (PIL 06-06).
5. If installed, remove the fuel cooler.
6. If installed, remove the air conditioning condenser. Refer to (PIL 12-15).
7. Disconnect the hydraulic and transmission hoses from the matrix, at the 4 couplings.
8. Support the matrix.
9. Remove the bolts.
10. Remove the matrix from the machine.

Figure 1456.

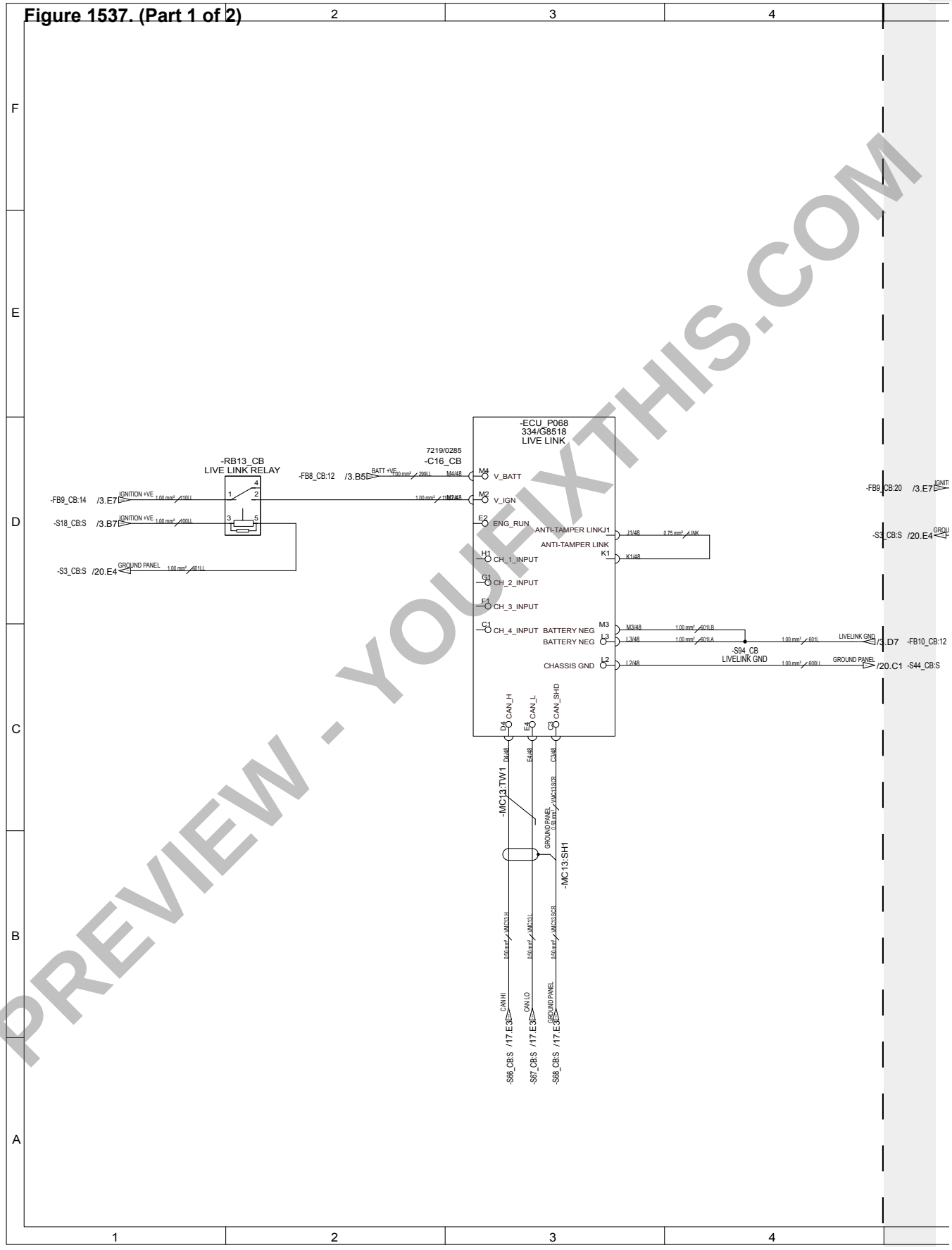


A Bolts
B Matrix
C Couplings (x4)

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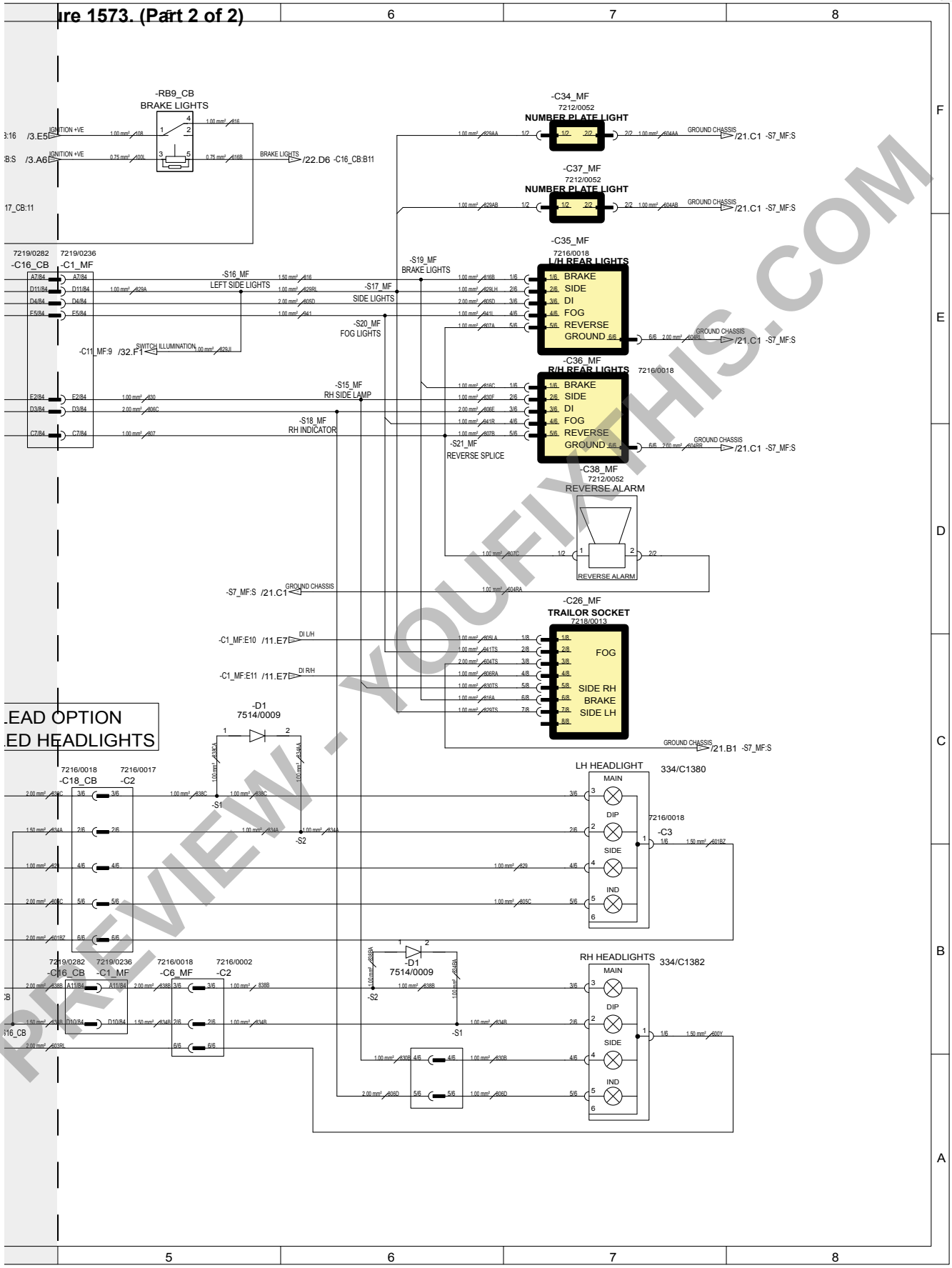
Figure 1537. (Part 1 of 2)



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ure 1573. (Part 2 of 2)



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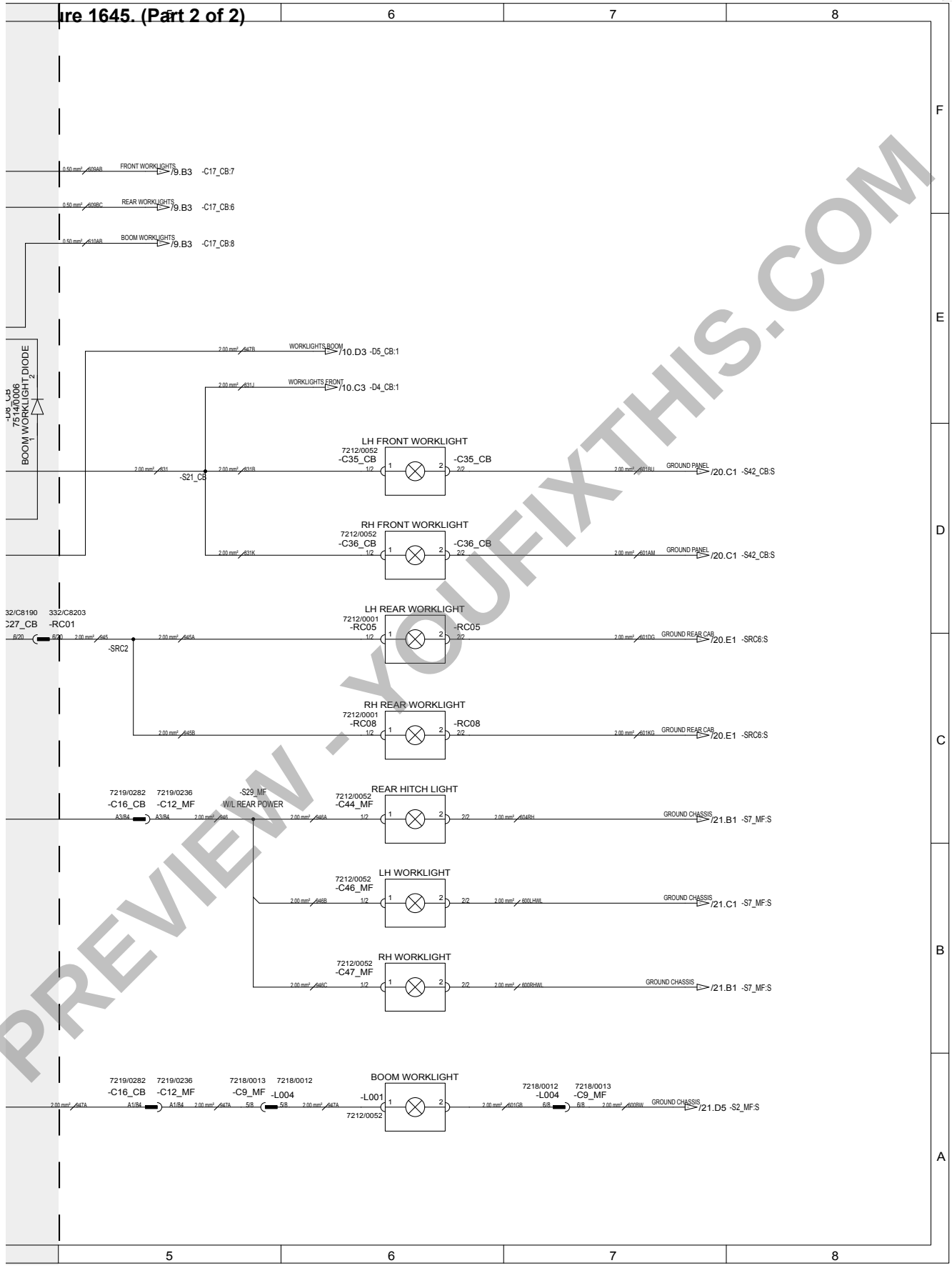
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ure 1645. (Part 2 of 2)



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04 - Chassis

Diagram

For: 550-80 [5YW], 560-80 [5YY], PS764, PS766 ..... Page 33-618
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For: 531-70 [5XA], 535-95 [5XB], 536-70 [5XE], 541-70 [5XD], HM560 Variable Transmission ..... Page 33-682
For: 536-60 [5XC], PS750 MK4, PS764, PS766 ..... Page 33-712
For: 531-70 [5XA], 535-95 [5XB], 536-70 [5XE], 541-70 [5XD], PS750 MK4, PS764, PS766 ..... Page 33-739
For: 536-60 [5XC], HM560 Variable Transmission ..... Page 33-767
For: 536-70LP [5X1] ..... Page 33-798

(For: 550-80 [5YW], 560-80 [5YY], PS764, PS766)

Figure 1703. Chassis Harness 721/T7042-1 sheet 1.....Page 33-619
Figure 1704. Chassis Harness 721/T7042-1 sheet 2.....Page 33-623
Figure 1705. Chassis Harness 721/T7042-1 sheet 3.....Page 33-627
Figure 1706. Chassis Harness 721/T7042-1 sheet 4.....Page 33-631
Figure 1707. Chassis Harness 721/T7042-1 sheet 5.....Page 33-635
Figure 1708. Chassis Harness 721/T7042-1 sheet 6.....Page 33-639
Figure 1709. Chassis Harness 721/T7042-1 sheet 7.....Page 33-643

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-S62_MF VMC12 SCREEN

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	VMC8 SCR	0.50 mm²	N/A	-S15_MF:S	-MC8_MF	
	S	VMC12 SCR	0.50 mm²	N/A	-S62_MF:S	-MC12_MF	
	S	VMC10 SCR	0.50 mm²	N/A	-S43_MF:S	-MC10_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S60_MF VMC CAN L

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	VMC8 L	0.50 mm²	GN	-C28_MF:G11	-MC8_MF	
	S	VMC10 L	0.50 mm²	GN	-S44_MF:S	-MC10_MF	
	S	VMC12 L	0.50 mm²	GN	-S76_MF:S	-MC12_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S61_MF VMC CAN H

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	VMC8 H	0.50 mm²	YE	-C28_MF:G12	-MC8_MF	
	S	VMC10 H	0.50 mm²	YE	-S45_MF:S	-MC10_MF	
	S	VMC12 H	0.50 mm²	YE	-S75_MF:S	-MC12_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S62_MF SCREEN 12

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	VMC12 SCR	0.50 mm²	N/A	-S59_MF:S	-MC12_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S63_MF V BATT

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	300TR	2.00 mm²	YE	-C28_MF:G1	-W1_MF	
	S	300TRA	0.75 mm²	YE	-C34_MF:2	-W1_MF	
	S	300TRB	0.75 mm²	YE	-C34_MF:3	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S64_MF TRAN TEMP

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	404C	0.75 mm²	YE	-C35_MF:32	-W1_MF	
	S	404A	1.00 mm²	YE	-C6_MF:28	-W1_MF	
	S	404	1.00 mm²	YE	-C28_MF:F11	-W1_MF	
	S	404B	1.00 mm²	YE	-C5_MF:P	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S65_MF TRANS SPLICE 1

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	1861B	0.75 mm²	YE	-C57_MF:1	-W1_MF	
	S	1861	1.00 mm²	YE	-C5_MF:A	-W1_MF	
	S	1861A	1.00 mm²	YE	-C28_MF:B12	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S66_MF TRANS SPLICE 2

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	1860B	0.75 mm²	YE	-C57_MF:2	-W1_MF	
	S	1860	1.00 mm²	YE	-C5_MF:B	-W1_MF	
	S	1860A	1.00 mm²	YE	-C28_MF:C6	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S67_MF TRANS SPLICE 3

Seal	ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
	S	1862B	0.75 mm²	YE	-C57_MF:3	-W1_MF	
	S	1862	1.00 mm²	YE	-C5_MF:C	-W1_MF	
	S	1862A	1.00 mm²	YE	-C28_MF:C4	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S68_MF TRANS SPLICE 4

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1863B	0.75 mm²	YE	-C57_MF:4	-W1_MF	
S	1863	1.00 mm²	YE	-C5_MF:D	-W1_MF	
S	1863A	1.00 mm²	YE	-C28_MF:C5	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S69_MF TRANS SPLICE 5

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1864B	0.75 mm²	YE	-C57_MF:5	-W1_MF	
S	1864/620	1.00 mm²	YE	-C5_MF:E	-W1_MF	
S	1864A	1.00 mm²	YE	-C28_MF:G3	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S70_MF TRANS SPLICE 6

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1865B	0.75 mm²	YE	-C57_MF:6	-W1_MF	
S	1865	1.00 mm²	YE	-C5_MF:F	-W1_MF	
S	1865A	1.00 mm²	YE	-C28_MF:B1	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S71_MF TRANS SPLICE 7

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	1866B	0.75 mm²	YE	-C57_MF:7	-W1_MF	
S	1866	1.00 mm²	YE	-C5_MF:G	-W1_MF	
S	1866A	1.00 mm²	YE	-C28_MF:B2	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S72_MF TRA PWR BRAKES

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	845TRA	0.75 mm²	YE	-C34_MF:12	-W1_MF	
S	845TR	1.50 mm²	YE	-C62_MF:3	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S73_MF 2723 5V REF

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	460A	1.00 mm²	YE	-C29_MF:2	-W1_MF	
S	460	0.75 mm²	YE	-C34_MF:23	-W1_MF	
S	460B	1.50 mm²	YE	-C62_MF:4	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S74_MF 2723 SENSOR GND

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	688TT	1.00 mm²	YE	-C6_MF:29	-W1_MF	
S	688TS	1.00 mm²	YE	-C5_MF:X	-W1_MF	
S	688	0.75 mm²	YE	-C28_MF:A8	-W1_MF	
S	688A	0.75 mm²	YE	-C34_MF:15	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S75_MF 2723 CAN H

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	VMC12 H	0.50 mm²	YE	-S61_MF:S	-MC12_MF	
S	CAN H	0.75 mm²	YE	-C34_MF:9	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

-S76_MF 2723 CAN L

ID	Tag	Size	Colour	Destination	Cable	Cavity Seal
S	VMC12 L	0.50 mm²	GN	-S60_MF:S	-MC12_MF	
S	CAN L	0.75 mm²	YE	-C34_MF:8	-W1_MF	

7000/3104 In Line Ultrasonic Splice
Additional Components
7000/3212;45 # Adhesive Lined Heatshrink

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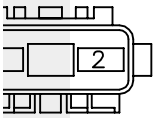
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C00

g	Size	Destination
CK	10.0	C002-1
CK	10.0	C003-1

x with Sec Lock : 1 : 7241/0028
Fuse Cover : 1 : 7241/0029
Fuse : 1 : 716/30084

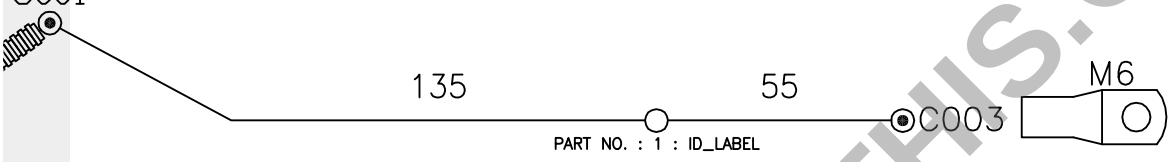


C001

C003

Cav ID	Tag	Size	Destination
1	BLACK	10.0	C001-2

RING CABLE LUG M6 10-16 : 1 : 7207/1303
Adhesive Lined Heatshrink : 40.0 : 7000/3212



718/X7474-1

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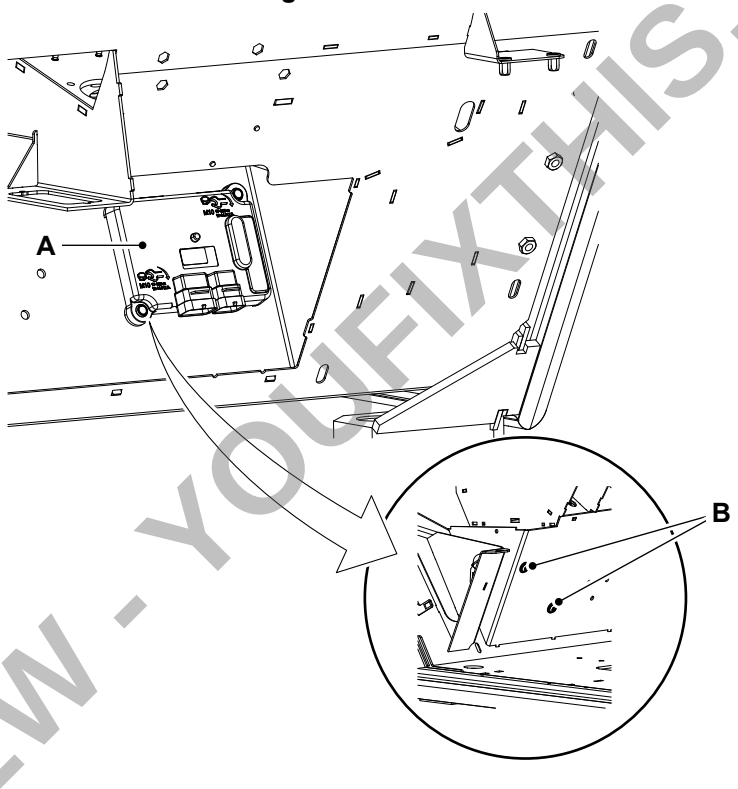
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Remove and Install

Remove

1. Make the machine safe.
   Refer to: PIL 01-03-27.
2. Disconnect the battery.
   Refer to: PIL 33-03-00.
3. Access the machine control ECU (Electronic Control Unit).
4. Disconnect the electrical connections.
5. Remove the two button head screws and washers attaching the ECU to the machine.
6. Carefully remove the machine control ECU.

Figure 1920.



A Machine control ECU

B Button head screws

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Fault Code	Fault Description	Fault Severity
P0470-00	Exhaust Manifold Pressure (P3) Signal ADC Fault	Service
P0472-23	Exhaust Manifold Pressure (P3) Signal Low Fault	Service
P0473-24	Exhaust Manifold Pressure (P3) Signal High Fault	Service
P0504-08	Park Brake Switch Plausibly Error	Operator
P0504-08	Foot Brake Switch Plausibly Error	Operator
P0504-64	Park Brake Switch Plausibly Error	Operator
P0504-64	Foot Brake Switch Plausibly Error	Operator
P0520-00	Low Oil Pressure Lamp/Gauge Drive Short Circuit (SC)	Trivial
P0520-11	Low Oil Pressure Lamp/Gauge Drive Short Circuit To Ground (SC2Gnd)	Trivial
P0520-12	Low Oil Pressure Lamp/Gauge Drive Short Circuit To Battery Voltage (SC2Vbatt)	Trivial
P0520-13	Low Oil Pressure Lamp/Gauge Drive Open Circuit (OC)	Trivial
P0521-00	Oil Pressure Sensor Signal Global Fault	Critical
P0522-23	High Oil Pressure During Engine Running	Critical
P0523-23	Engine Oil Pressure Low -	Critical
P0523-24	Engine Oil Pressure Sensor Fault (High Voltage Fault)	Critical
P0523-24	Engine Oil Pressure Sensor Fault (High Voltage Fault)	Critical
P0523-24	Low Oil Pressure During Engine Running	Critical
P0544-00	Turbo In Temperature Fault	Service
P0545-23	Turbo In Temperature Count Low Fault	Service
P0546-24	Turbo In Temperature Count High Fault	Service
P0562-02	Fault Due To Low Or High Battery Voltage Supply To DCU	Operator
P0562-16	Low Battery Voltage	Operator
P0563-17	High Battery Voltage	Operator
P0563-24	Battery Voltage Monitoring Signal High Fault	Service
P0566-00	Cruise Switch Off Function Fault Detected	Trivial
P0567-00	Cruise Switch Resume Function Fault Detected	Trivial
P0569-00	Cruise Switch Decelerate Function Fault Detected	Trivial
P0570-00	Cruise Switch Accelerate Function Fault Detected	Trivial
P0575-00	Cruise Switch ADC Fault Detected	Trivial
P0602-00	Trivial	
P0602-45	Trivial	

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Technical Data

Dimensions

Figure 2169.

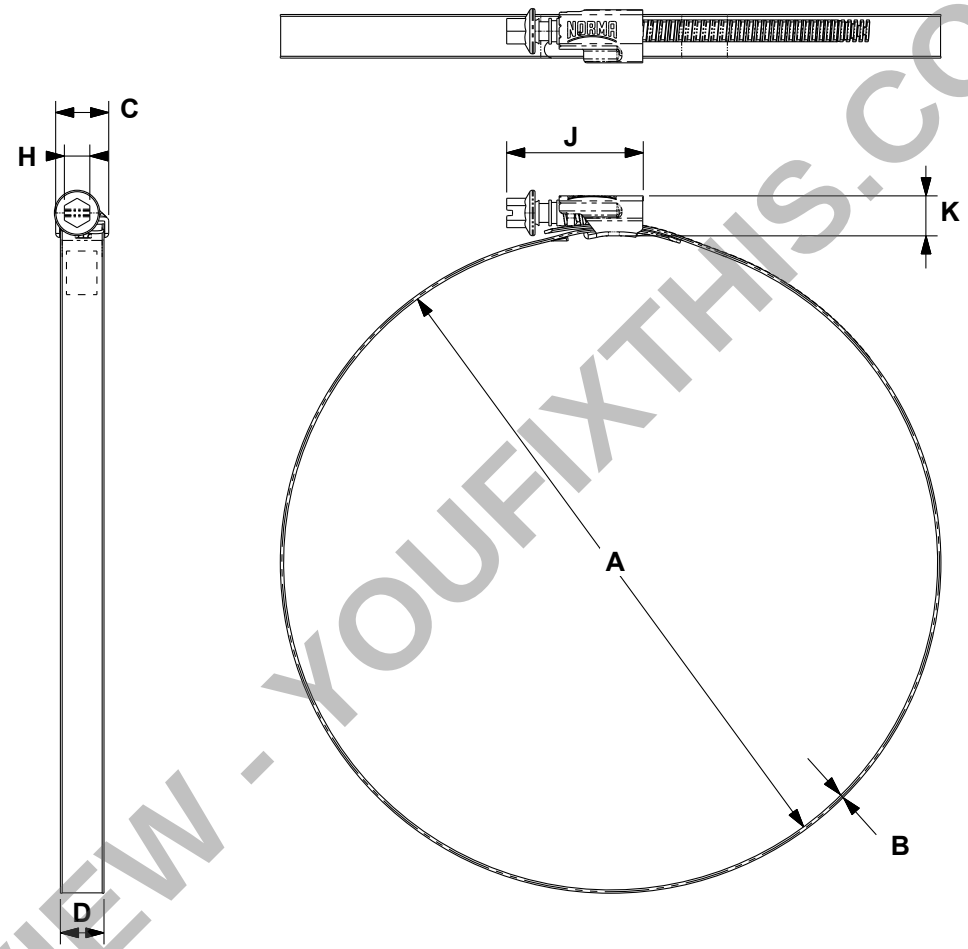


Table 738.

A	B	C	D	H	J	K
Clamping range	**Band thickness**	**Housing width**	**Band width**	**Hex size across flats**	**Bolt and housing length**	**Bolt and housing overall height**
Standard worm drive clips and spring assisted worm drive clips						
8–16mm	0.7mm	13mm	9mm	7mm	21mm	11mm
12–22mm					21mm	
16–27mm up to 60–80mm	0.8mm	14.6mm	12mm		30mm	12.5mm
70–90mm up to 160–180mm					36mm	

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