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Zinc Plated Fasteners and Dacromet Fasteners

Table 2. Torque Settings - UNF Grade 'S' Fasteners

Bolt Size		Hexagon (A/F)	Condition 1			Condition 2		
in.	mm	in.	Nm	kgf m	lbf ft	Nm	kgf m	lbf ft
1/4	6.3	7/16	11.2	1.1	8.3	10.0	1.0	7.4
5/16	7.9	1/2	22.3	2.3	16.4	20.0	2.0	14.7
3/8	9.5	9/16	40.0	4.1	29.5	36.0	3.7	26.5
7/16	11.1	5/8	64.0	6.5	47.2	57.0	5.8	42.0
1/2	12.7	3/4	98.00	10.0	72.3	88.0	9.0	64.9
9/16	14.3	13/16	140.0	14.3	103.2	126.0	12.8	92.9
5/8	15.9	15/16	196.0	20.0	144.6	177.0	18.0	130.5
3/4	19.0	1 1/8	343.0	35.0	253.0	309.0	31.5	227.9
7/8	22.2	1 15/16	547.0	55.8	403.4	492.0	50.2	362.9
1	25.4	1 1/2	814.0	83.0	600.4	732.0	74.6	539.9
1 1/8	31.7	1 7/8	1181.0	120.4	871.1	1063.0	108.4	784.0
1 1/4	38.1	2 1/4	1646.0	167.8	1214.0	1481.0	151.0	1092.3

Table 3. Torque Settings - Metric Grade 8.8 Fasteners

Bolt Size		Hexagon (A/F)	Condition 1			Condition 2		
ISO Metric Thread	mm	mm	Nm	kgf m	lbf ft	Nm	kgf m	lbf ft
M5	5	8	5.8	0.6	4.3	5.2	0.5	3.8
M6	6	10	9.9	1.0	7.3	9.0	0.9	6.6
M8	8	13	24.0	2.4	17.7	22.0	2.2	16.2
M10	10	17	47.0	4.8	34.7	43.0	4.4	31.7
M12	12	19	83.0	8.5	61.2	74.0	7.5	54.6
M16	16	24	205.0	20.9	151.2	184.0	18.8	135.7
M20	20	30	400.0	40.8	295.0	360.0	36.7	265.5
M24	24	36	690.0	70.4	508.9	621.0	63.3	458.0
M30	30	46	1372.0	139.9	1011.9	1235.0	125.9	910.9
M36	36	55	2399.0	244.6	1769.4	2159.0	220.0	1592.4

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Tool Detail Reference

Section B - Body and Framework

Note: *Not all service tools are illustrated.*

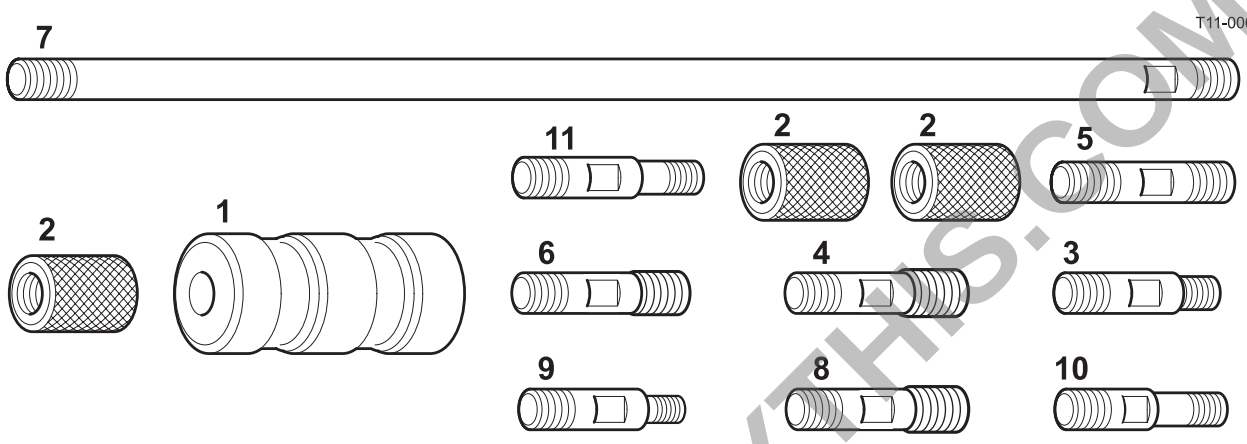


Fig 1. 993/68100 Slide Hammer Kit

1	993/68101	Slide Hammer	**7**	993/68107	Bar - M20 x M20 X 800 mm
2	993/68102	End Stops	**8**	993/68108	Adaptor - M20 x 7/8" UNF
3	993/68103	Adaptor - M20 x 5/8" UNF	**9**	993/68109	Adaptor - M20 x M12
4	993/68104	Adaptor - M20 x 1" UNF	**10**	993/68110	Adaptor - M20 x 5/8" UNF (Shoulder)
5	993/68105	Adaptor - M20 x M20	**11**	993/68111	Adaptor - M20 x 1/2" UNF
6	993/68106	Adaptor - M20 x M24			

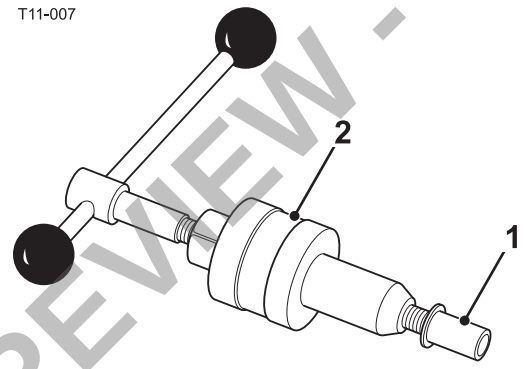


Fig 2. Rivet Nut Tool

1	826/01099	M6 x 16 mm Rivet Nut
	826/01101	M6 x 19 mm Rivet Nut
	826/01102	M8 x 18 mm Rivet Nut
	826/01103	M8 x 21 mm Rivet Nut
	826/01104	M10 x 23 mm Rivet Nut
	826/01105A	M10 x 26 mm Rivet Nut
2	-	Installation Tool available from: Bollhoff Fastenings Ltd (***www.bollhof.com***)

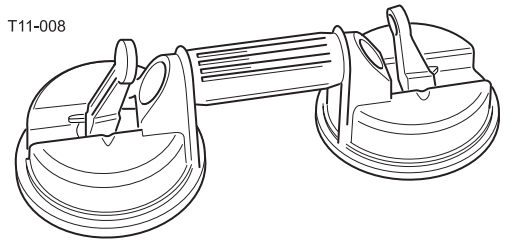


Fig 3. 892/00842 Glass Lifter

Minimum 2 off - Essential for glass installation, 2 required to handle large panes of glass. Ensure suction cups are protected from damage during storage.

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Pre Start Cold Checks, Service Points and Fluid Levels

	Operation	10	50	250	500	1000	2000	4000	5000
ENGINE									
Oil level	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Oil and Filter (1)	- Sample/Change				☐	☐	☐	☐	☐
Pre Cleaner (if fitted)	- Clean			☐	☐	☐	☐	☐	☐
Air Cleaner Outer Element	- Change					☐	☐	☐	☐
Air Cleaner Inner Element	- Change						☐	☐	
Air Cleaner Dust Valve	- Check and Clean			☐	☐	☐	☐	☐	☐
Fuel Level	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Fuel Tank - Water and Sediment	- Drain		☐	☐	☐	☐	☐	☐	☐
Coolant Quality/Level	- Check	☐	☐	☐	☐	☐	☐	☐	☐
Coolant	- Change							☐	
Fuel Pump Filter Element	- Change				☐	☐	☐	☐	☐
Primary Fuel Filter/Sedimenter	- Drain and Clean		☐	☐	☐	☐	☐	☐	☐
Primary Fuel Filter/Sedimenter-filter	- Change				☐	☐	☐	☐	☐
Main Fuel Filter/Sedimenter	- Drain and Clean		☐	☐	☐	☐	☐	☐	☐
Main Fuel Filter/Sedimenter-filter	- Change				☐	☐	☐	☐	☐
Fuel Filler Cap	- Check and Clean			☐	☐	☐	☐	☐	☐
Fuel Filler Cap (Dusty conditions)	- Check and Clean		☐	☐	☐	☐	☐	☐	☐
Fan Belt Tension/Condition	- Check			☐	☐	☐	☐	☐	☐
Valve Clearances	- Check and Adjust					☐	☐	☐	☐
Engine Mounting Bolts for Tightness	- Check				☐	☐	☐	☐	☐
Exhaust System Security	- Check				☐	☐	☐	☐	☐
Air Inlet System Security	- Check			☐	☐	☐	☐	☐	☐
Radiator	- Clean and Check			☐	☐	☐	☐	☐	☐

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JS360 and Variants

Table 11.

Item	Capacity	Fluid/Lubricant	JCB Part No.	Container Size(1)
ENGINE	38 litres (8.4 UK gal) (10.1 US gal)	JCB Engine Oil HP 15W40 -15°C to +40°C (5°F to 104°F)	4001/1505	20 Litres
		JCB Engine Oil HP 10W30 -30°C to +30°C (-22°F to 86°F)	4001/1705	20 Litres
COOLING SYSTEM	38 litres (8.36 UK gal) (10 US gal)	JCB HP Coolant ⇒ *Coolant Mixtures (3-25)*	4006/1120	20 Litres
TRACK GEARBOX	2 x 5 litres (2 x 1.10 UK gal) (2 x 2.32 US gal)	JCB HD90 Gear Oil	4000/0301	5 Litres
SLEW GEARBOX	16 litres (3.52 UK gal) (4.23 US gal)		4000/0305	20 Litres
TRACK ROLLERS AND IDLER WHEEL				
RECOIL SPRING CYLINDER		JCB Special HP Grease	4003/2017	400g
HYDRAULIC SYSTEM	320 litres (70.4 UK gal) (84.5 US gal)	JCB Hydraulic Fluid HP32 -20°C to +15°C (-4°F to 59°F)	4002/1024	200 Litres
		JCB Hydraulic Fluid HP46 -10°C to +30°C (14°F to 86°F)	4002/0803	
		JCB Hydraulic Fluid HP68 0°C to +40°C (32°F to 104°F)	4002/0701	
SLEW RING		JCB Special HP Grease	4003/2017	400g
- BEARING	--			
- GEAR TEETH	--		4003/2006	12.5kg
ALL OTHER GREASE POINTS	--			
FUEL TANK	650 litres (143.0 UK gal) (171.7 US gal)	⇒ *Fuel System (3-74)*		

(1) For information about the different container sizes that are available (and their part numbers), contact your JCB Dealer.

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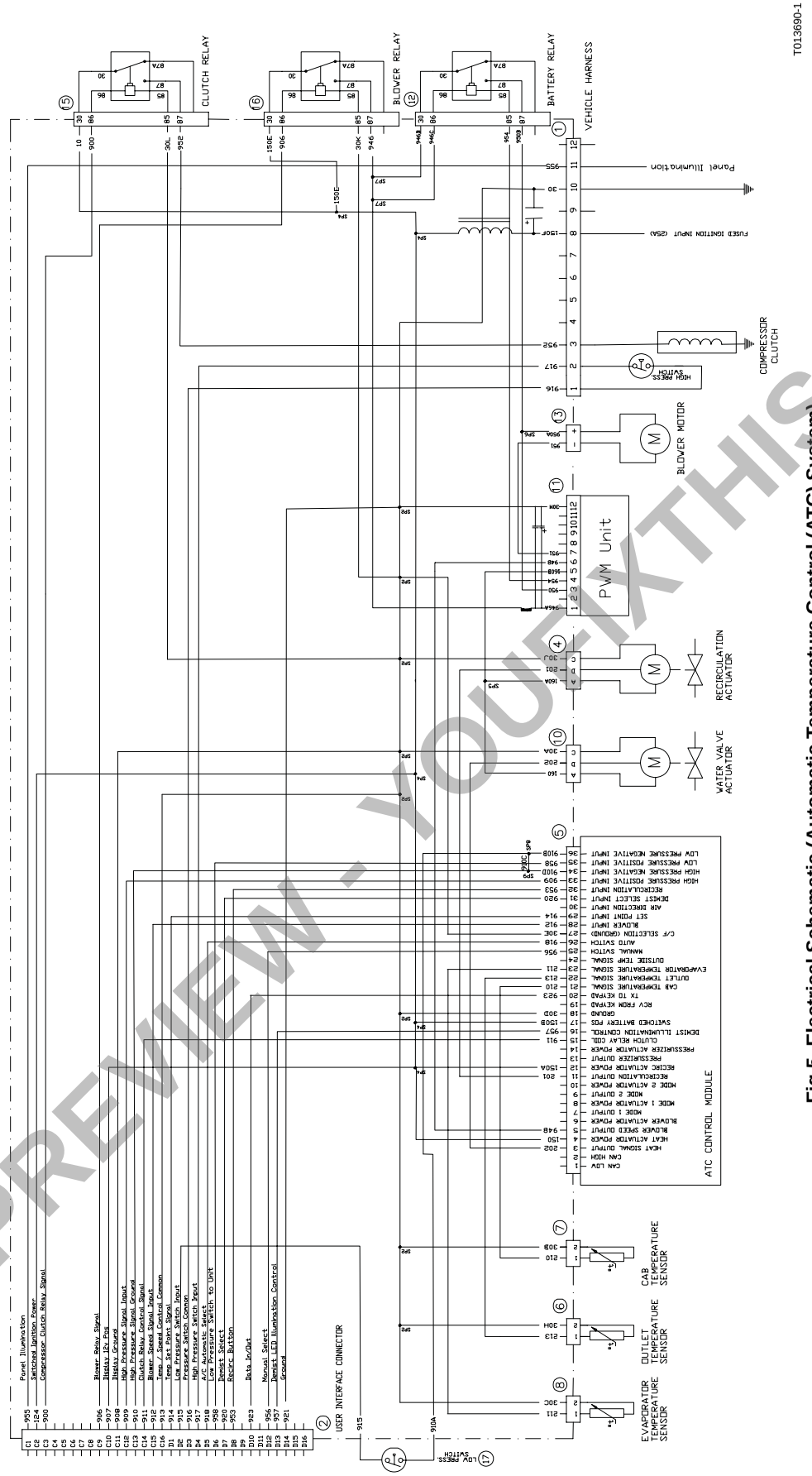


Fig 5. Electrical Schematic (Automatic Temperature Control (ATC) System)

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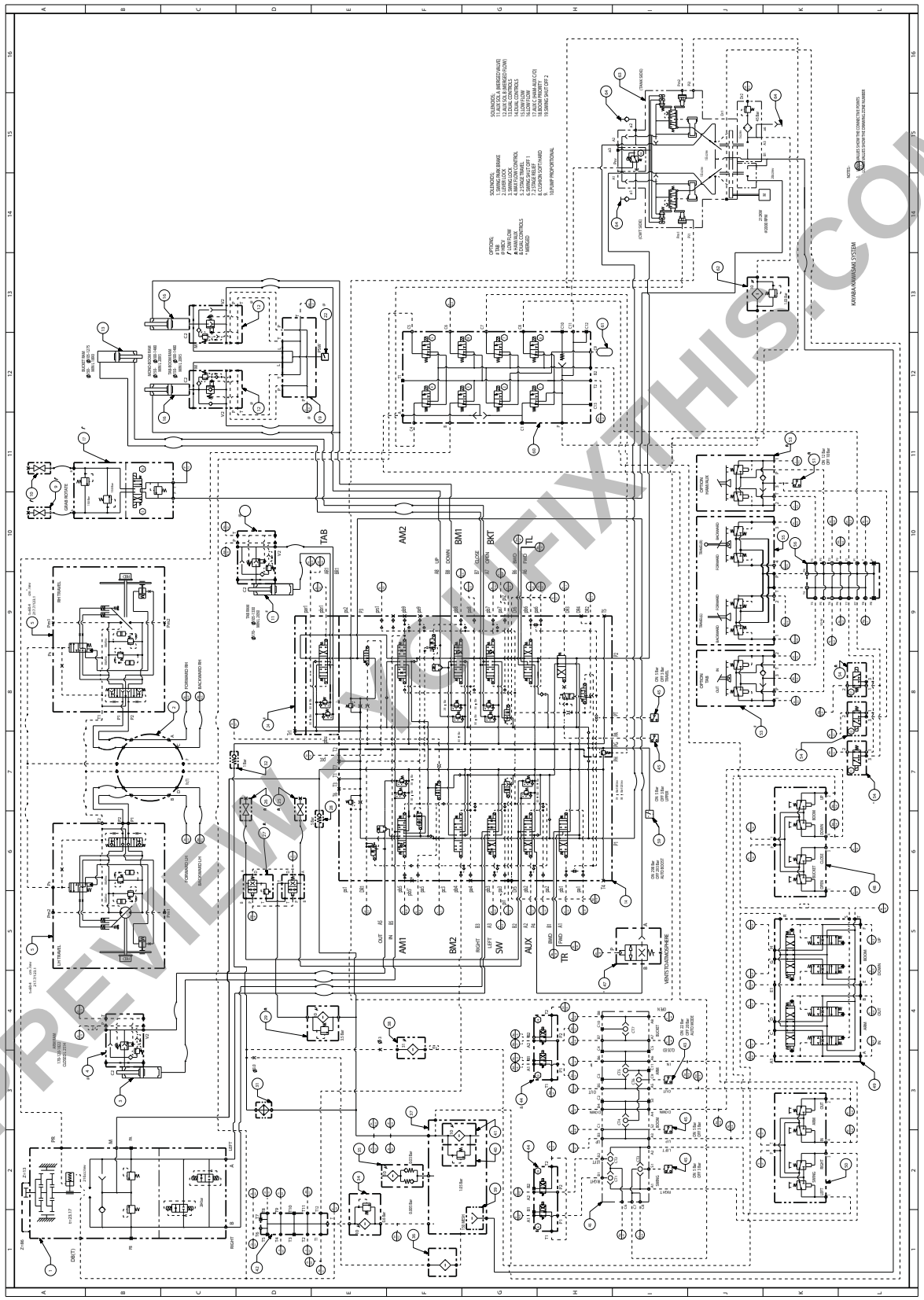


Fig 1. Hydraulic Schematic 332/J9309 Issue 1

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Engine Error Codes

TK-001

Engine `NO RESTART'. If this message appears the engine will continue to run to allow the machines to be moved to a position of safety where the machine can be repaired. Once the engine is stopped it will not restart until the repair as been carried out.

If the message `LOW POWER' displays the engine power is reduced to 60% power to protect the engine.

Table 4.

Use for identification the repair part			**Engine fault LED**	**Caution LED**	**Buzzer ON (1.5 sec)**	**Error Code Display (eg. ENG P0335)**	**Message Displayed**
DTC	Diagnostic Monitoring Item (Malfunction Title)	Condition for Setting DTC					
P0087	Fuel rail pressure is too low (Fuel leak)	Actual rail pressure < Minimum target rail pressure at actual rail pressure is 15MPa or more	✓		✓	✓	LOW POWER
P0088	Common rail pressure (1st stage)	Rail pressure is over 185MPa	✓		✓	✓	LOW POWER
P0088	Common rail pressure (2nd stage)	Common rail pressure failure (1st. Stage) is occurred and the rail pressure is over 190MPa.	✓		✓	✓	LOW POWER
P0089	Common rail pressure (excessive pressure for pump)	DUTY for SCV is 40% or more. Or Actual rail press -Target rail press >40MPa~ then target fuel flow is 90mm 3/st or less.	✓		✓	✓	LOW POWER
P0090	Fuel pressure regulator control circuit	SCV driving current > 2400mA or 50mA < SCV driving current, or Target current - Actual current >1000 mA	✓		✓	✓	LOW POWER
P0107	Air pressure sensor (low voltage)	The voltage of air pressure temperature sensor falls below 0.099V.	✓			✓	
P0108	Air pressure sensor (high voltage)	The voltage of air pressure temperature sensor exceeds 4.85V.	✓			✓	
P0112	Intake air temperature circuit (low voltage)	The voltage of intake temperature sensor falls below 0.099V.	✓			✓	
P0113	Intake air temperature circuit (high voltage)	The voltage of intake temperature sensor exceeds 4.85V.	✓			✓	

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Fault Finding

Transmission

Traction Motor

Symptom	Possible Cause	Remedy
a Motor does not run.	**1** Device external to the piston motor or reduction gear malfunctioning.	Check that the specified pressurised oil is delivered to the motor input side. Inspect all associated devices and repair if necessary.
	2 Sliding area of motor is excessively worn, allowing pressurised oil to escape.	Renew the excessively worn part. Remove scratches and burrs from the surface and completely clean all parts. Reassemble.
	3 Malfunction resulting from damaged motor part(s), resulting in excessive noise.	Dismantle and renew the damaged part(s). Completely clean all parts and then reassemble.
	4 Relief valve operating due to excessive motor loading.	Check the load and only operate the machine with a suitable load.
b Motor speed low.	**1** Oil not supplied to motor at specified rate due to problems in hydraulic pump, pressure control valve etc.	Check that the specified pressurised oil is delivered to the motor input side. Inspect all associated devices and repair if necessary.
	2 Volume efficiency of motor low.	After dismantling, check for abnormal wear of the sliding area and repair or renew the worn parts.
c Motor speed varies greatly.	**1** Large amount of pressurised oil escapes and flows out of the drain port due to wear on the sliding area of the motor.	Dismantle and renew excessively worn parts. Clean all parts and reassemble.
	2 Wear in the bearings.	Renew motor bearings.
	3 Motor load is excessive and automatic 2-speed function is operating.	Check the load and only operate the machine with a suitable load.
d Oil leaks.	**1** Oil leaks due to damaged oil seals or O-rings.	Renew damaged oil seals or O-rings. When fitting an oil seal, be careful not to damage the lip. Check the system to ensure the running temperature does not exceed 80 °C. Take the necessary steps to ensure the temperature remains within the acceptable range.
	2 Refer to a2 and/or c1. ⇨ ***Traction Motor (F-3)***	Refer to a2 and/or c1. ⇨ ***Traction Motor (F-3)***
	3 Clogging due to foreign matter in drain pipe or long, narrow pipes causing the oil seal to break.	Clean the clogged drain piping. Recheck the piping system and reduce the passage resistance. Renew the oil seal taking care not to damage the lip.
e Abnormal noise, excessive speed and pressure variation due to cavitation.	**1** When the motor works as a pump, when the closed circuit is used, when the boost pressure is low (standard: 0.4 -5 kgf/cm^2) or when the double counterbalance valve operates improperly, negative pressure is generated on the suction side of the motor, resulting in cavitation.	Recheck the hydraulic circuit and by remedying or renewing the double counterbalance valve, prevent the generation of negative pressure. Dismantle the motor and renew any abnormally worn or broken parts.

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Changing the Oil and Filter

CAUTION

Hot oil and engine components can burn you. Make sure the engine is cool before doing this job.

2-3-3-2

1 Prepare the machine. ⇒ *Prepare the Machine for Maintenance (3-29)*.

2 Let the engine stand until it is warm. Do not check the oil straight after the engine has stopped, the oil level indicated will actually be lower than it is.

3 Drain the Oil

a Remove the belly plate

b Place an oil collecting container of suitable size beneath the engine sump drain point.

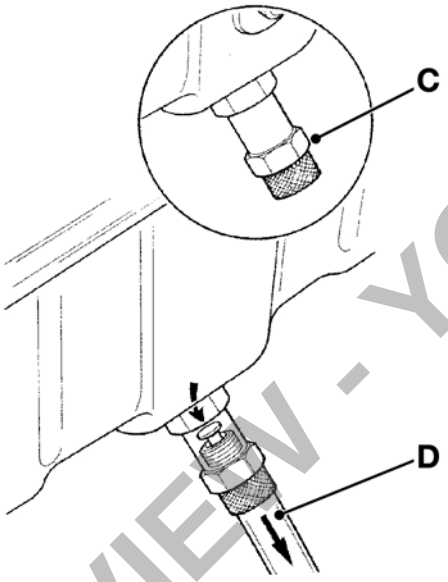


Fig 31.

c Remove the self sealing drain plug outer cover **C**.

d Fit the self sealing drain kit threaded union (with attached pipe) **D**. Drain sump oil into a suitable container.

e Remove the self seal drain kit, clean and refit the outer cover. (Do not over tighten the cover).

4 Change the Filter

a Remove the remote filter **E**.

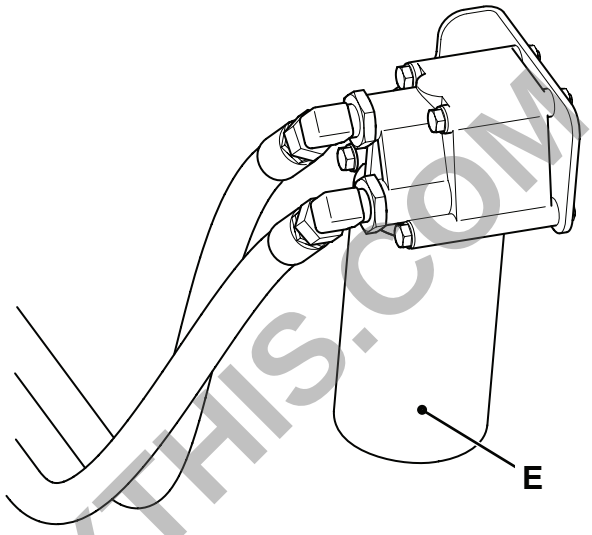


Fig 32.

b Clean the filter head.

c Smear the seal on the new filter **E** with oil.

d Fill the filter with engine oil before fitting.

e Tighten the filter until the seal bites onto the filter housing.

f Tighten the filter a minimum of one more full turn.

5 Fill the System.

a Fill the engine with new oil through filler **B** ⇒ *Fig 28. (3-56)*,⇒ *Fig 29. (3-56)*,⇒ *Fig 30. (3-56)*,⇒ *Fluids, Lubricants and Capacities (3-16)*

b Wipe off any spilt oil.

c Check for leaks.

d Make sure the filler cap is correctly refitted.

6 Check for Leaks

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Inserting Seal Ring and Correction Jig

WDB 2052	Bucket	120mm Cylinder inner diameter
WDB 2054	Boom	125mm Cylinder inner diameter
WDB 2164	Boom	130mm Cylinder inner diameter
WDB 2056	Arm	150mm Cylinder inner diameter

Jig for Pulling Out, Press-fitting Bushing

WDB 2166	Bucket	80mm Piston Rod diameter
WDB 2167	Boom	85mm Piston Rod diameter
WDB 2170	Arm	100mm Piston Rod diameter
WDB 2168	Bucket	90mm Piston Rod diameter
WDB 2168	Boom	90mm Piston Rod diameter
WDB 2171	Arm	105mm Piston Rod diameter

Jig for Press-fitting Wiper Ring

WDB 2166-1	Bucket	80mm Piston Rod diameter
WDB 2167-1	Boom	85mm Piston Rod diameter
WDB 2170-1	Arm	100mm Piston Rod diameter
WDB 2168-1	Bucket	90mm Piston Rod diameter
WDB 2168-1	Boom	90mm Piston Rod diameter
WDB 2171-1	Arm	105mm Piston Rod diameter

Jig for Inserting Cylinder Head

WDB 2174	Bucket	80mm Piston Rod inner diameter
WDB 2175	Boom	85mm Piston Rod inner diameter
WDB 2178	Arm	100mm Piston Rod inner diameter
WDB 2176	Bucket	90mm Piston Rod inner diameter
WDB 2176	Boom	90mm Piston Rod inner diameter
WDB 2179	Arm	105mm Piston Rod inner diameter

Seal Ring and Connector Jig

WDB 2052	Seal Ring insert and connection jig set
Note: *The above Part no. is applicable to a tube diameter of 120mm*	

Bush Removal Jig

WDB 2166	Bush removal jig

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Warning Symbols

The following warning symbols may be found on the battery.

Symbol	Meaning
 A289230-1	Keep away from children.
 A289260-1	Shield eyes.
 A289280	No smoking, no naked flames, no sparks.
 A289250	Explosive Gas.
 A289240	Battery acid.
 A289270	Note operating instructions.

First Aid - Electrolyte

Do the following if electrolyte:

Gets into your eyes

Immediately flush with water for 15 minutes, always get medical help.

Is swallowed

Do not induce vomiting. Drink large quantities of water or milk. Then drink milk of magnesia, beaten egg or vegetable oil. Get medical help.

Gets onto your skin

Flush with water, remove affected clothing. Cover burns with a sterile dressing then get medical help.

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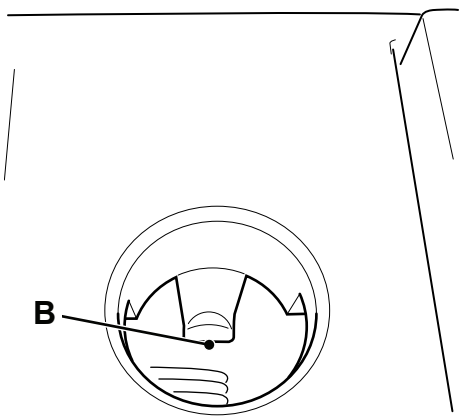


Fig 18.

The electrolyte should be level with the indicator **B** inside of the battery cell.

WARNING

Do not top the battery up with acid. The electrolyte could boil out and burn you.

2-3-4-6

5 Top-up if necessary with distilled water or de-ionised water.

Breather Cleaning - Low Maintenance Batteries

1 Prepare the machine. ⇒ ***Prepare the Machine for Maintenance (3-29)***.

2 Gain access to the batteries and remove the terminals. ⇒ ***Battery Disconnection/ Connection (3-40)***.

3 Remove the inspection covers **A**.

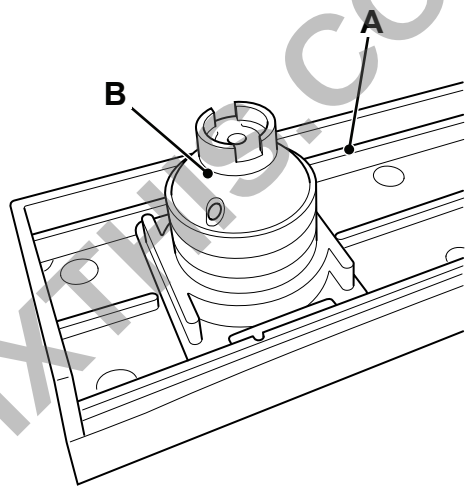


Fig 19.

4 Check that the breathers **B** are free from contamination and debris.

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Bleeding the System

Air in the fuel system could cause misfiring or failure to start. Air will enter the system if any part of it is disconnected or emptied.

Note: *Running the engine with air in the system could damage the fuel injection pump. After maintenance, remove air from the fuel system as detailed below.*

1 Prepare the machine. ⇨ ***Prepare the Machine for Maintenance (🗋 3-29)***.

2 Locate the fuel filter **A**, ⇨ ***Fig 55. (🗋 3-79)***.

3 Loosen the air bleeder plug **B** and operate the priming pump **C** until fuel appears at plug **B**.

4 Tighten plug **B** and operate pump **C** until the fuel filter is filled with fuel.

5 Wait approximately one minute and loosen air bleeder plug **B** to bleed any air from the fuel filter.

6 Repeat the previous three steps until no air comes from the bleeder plug **B**.

7 Tighten the plug **B** securely and wipe off any spilt fuel.

8 Start the engine but do not increase engine speed. If the engine fails to start repeat procedure from step 5.

9 After engine start up, keep at idle speed for five seconds before increasing speed slowly for three minutes.

10 Use throttle dial to operate the machine at maximum speed.

11 Stop machine and check for leaks.

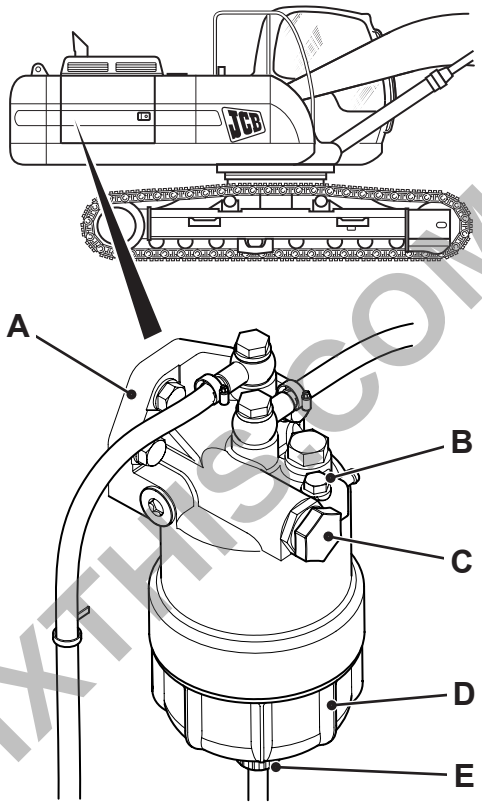


Fig 55.

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Error Codes / Error Diagnosis (Automatic Temperature Control (ATC) System)

Table 6. Error Code 1 - High Pressure Lock Out

Effect	Description	Causes	Remedy
The unit cannot cool the cab The compressor disengages.	The high pressure switch operates twice In 1 minute.	The system is overcharged.	Check the continuity of switch (usually open switch).
			Check the gas in system and recharge, refer to table.
		There is no power to the high pressure switch.	Check for 24V at the switch.
			Check the continuity between ATC control module pin 33 and switch.
		There is a bad earth on the high pressure switch.	Check the earth wire between ATC control module pin 34 and switch.
		There is a defective switch.	Replace the switch.

Note: *If, an Error code shows after one minute this can show a system Error.*

Note: *If, an Error code shows instantly this can show a wiring Error.*

Table 7. Error Code 2 - Low Pressure Lock Out

Effect	Description	Causes	Remedy
The unit cannot cool the cab The compressor disengages.	The low pressure switch opens for longer than 1 minute.	The system is undercharged.	Check the continuity of switch (usually closed switch).
			Check the gas in system and recharge, refer to table.
		There is no power to the low pressure switch.	Check for 24V at the switch.
			Check the continuity between ATC control module pin 35 and switch.
		There is a bad earth on the low pressure switch.	Check the earth wire between ATC control module pin 36 and switch.
		There is a defective switch.	Replace the switch.

Note: *If an Error code shows after one minute this can show a system error.*

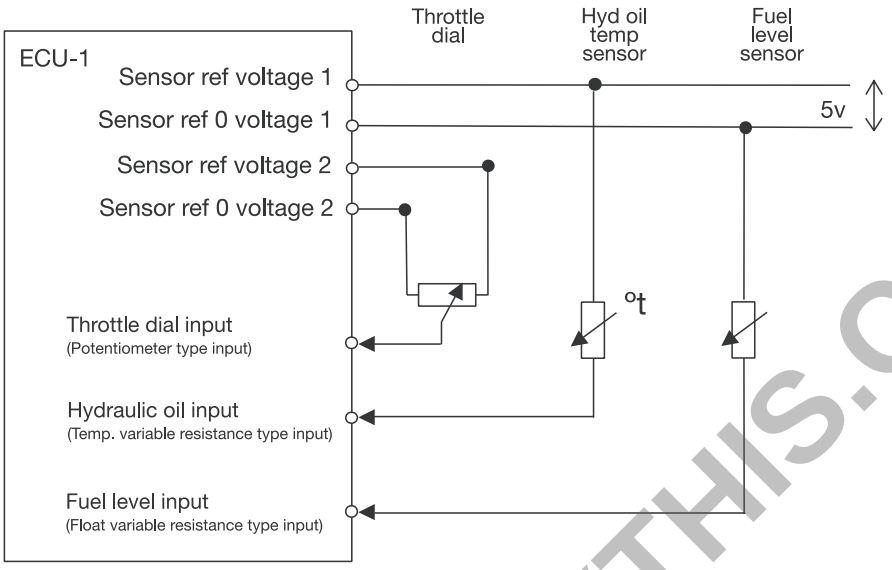
Note: *If an Error code shows instantly this can show a wiring error.*

Note: *Battery reset may be required to remove the error after repair.*

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Analogue input (i.e. sensor type inputs)



C045960GB-2

Fig 11.

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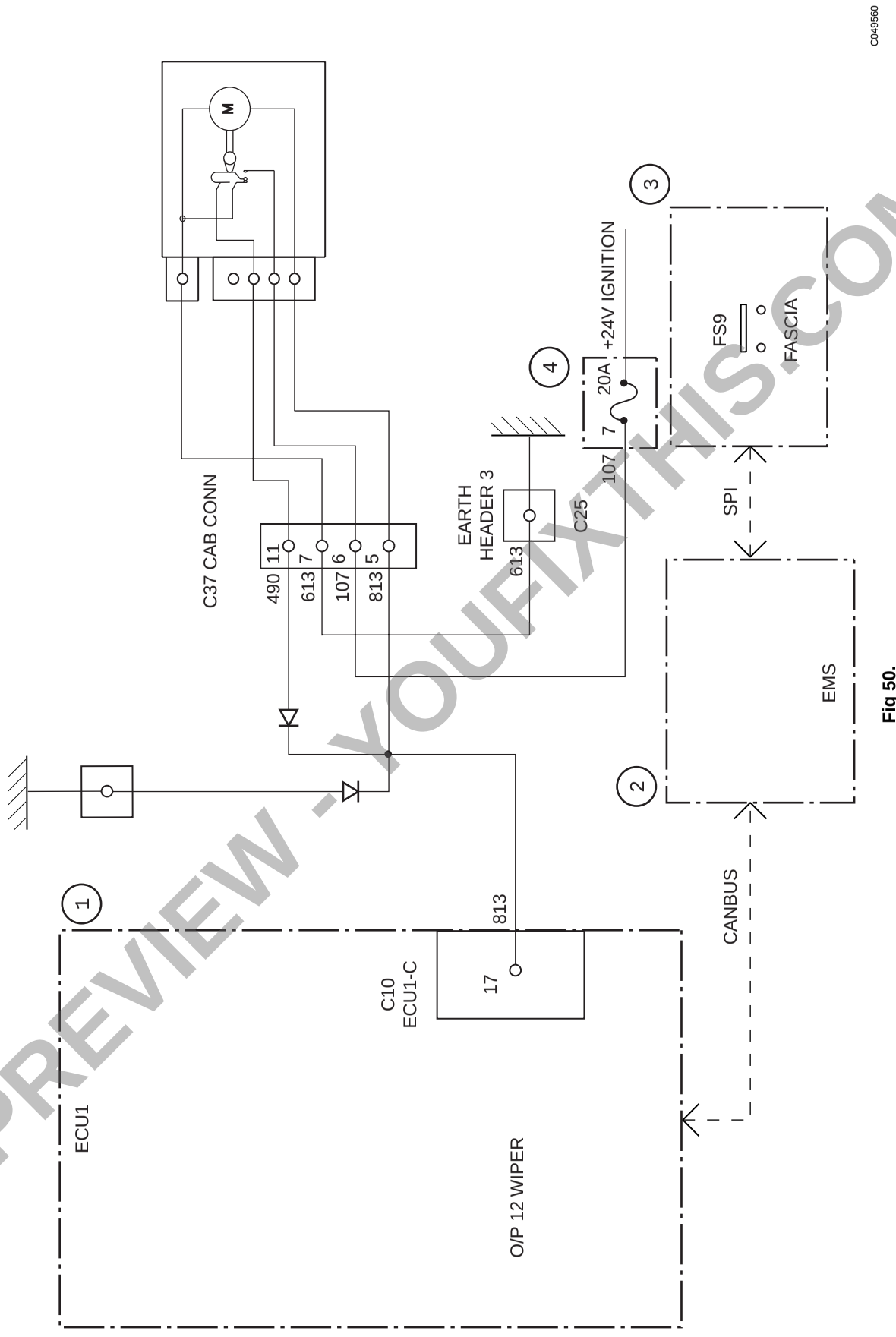


Fig 50.

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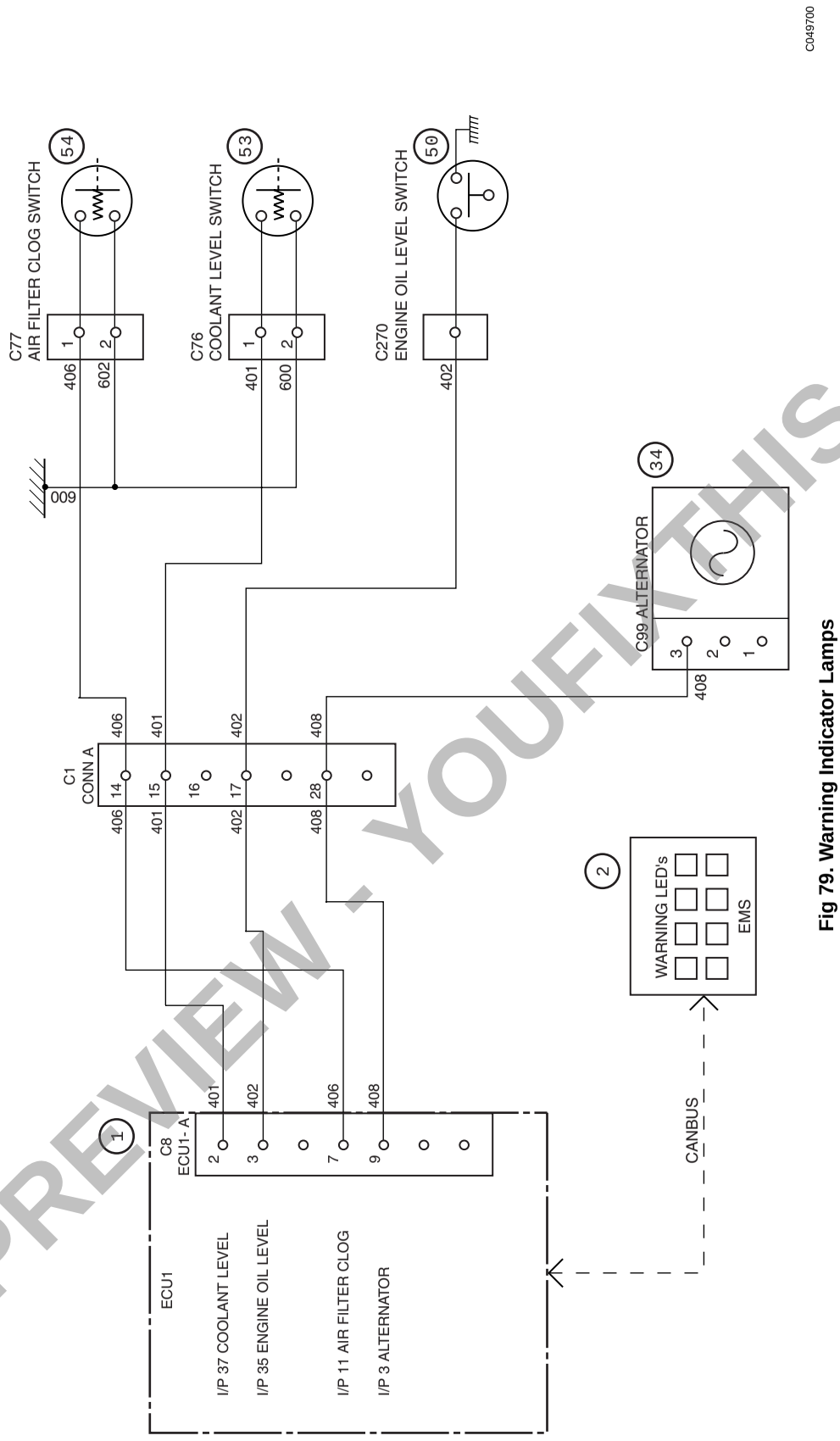


Fig 79. Warning Indicator Lamps

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Main Servo/Pilot Line

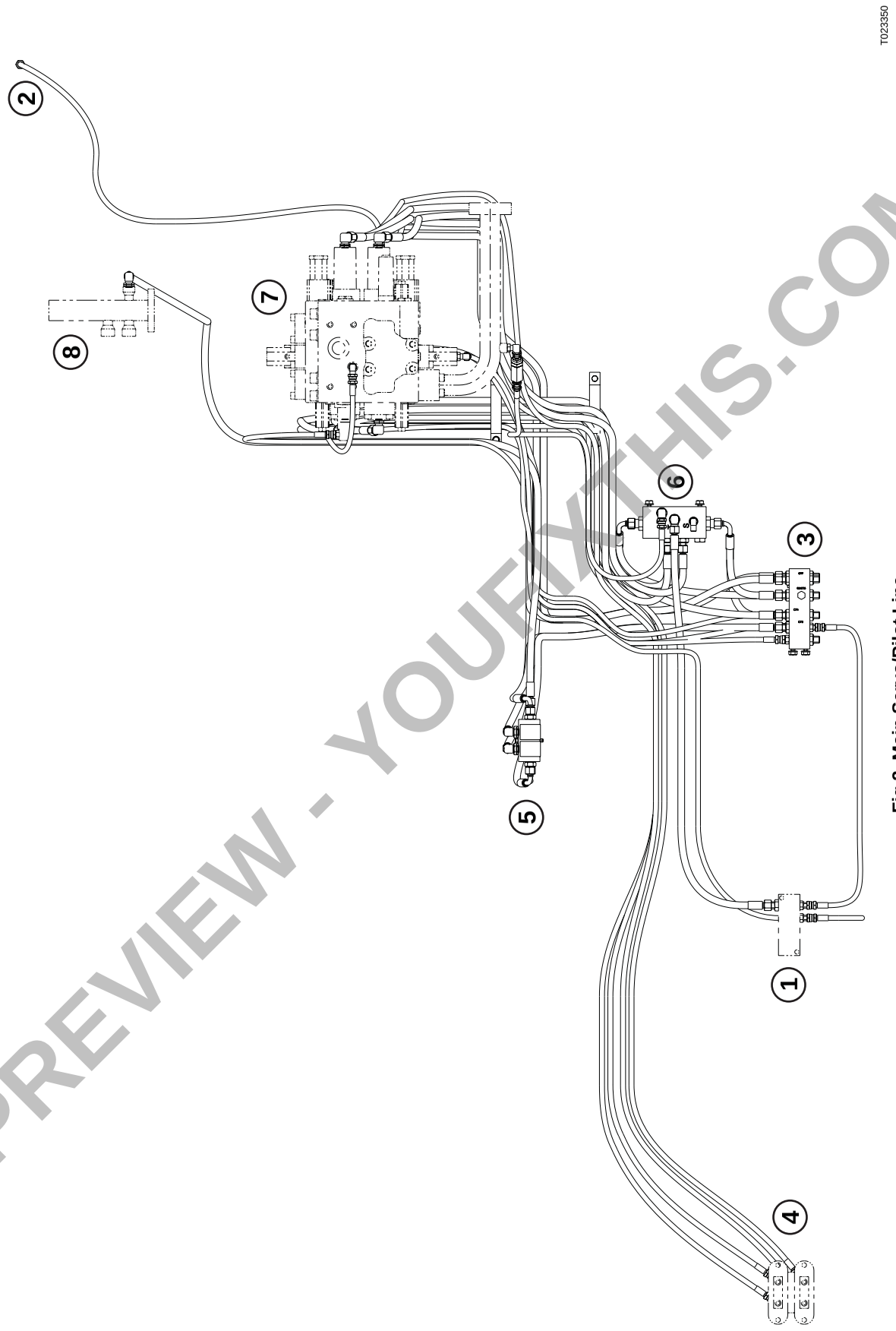


Fig 3. Main Servo/Pilot Line

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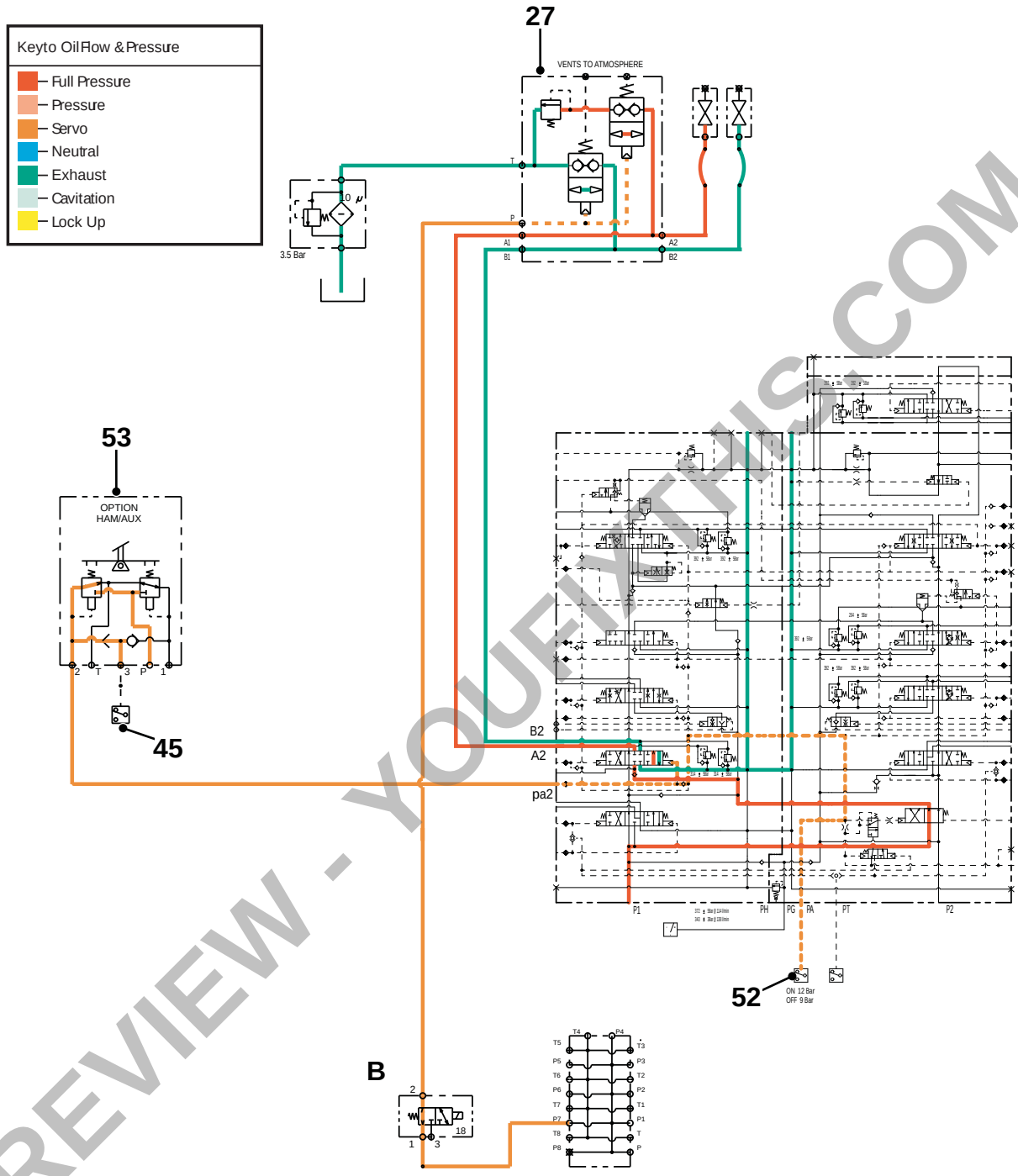


Fig 21. Hammer Schematic

For Description, ⇒ ***Hammer Circuit (E-56)***.

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4 Remove socket head screws **28-19** and **28-20** and lift off pilot cover **28-21**. Take out set spring **28-22**.

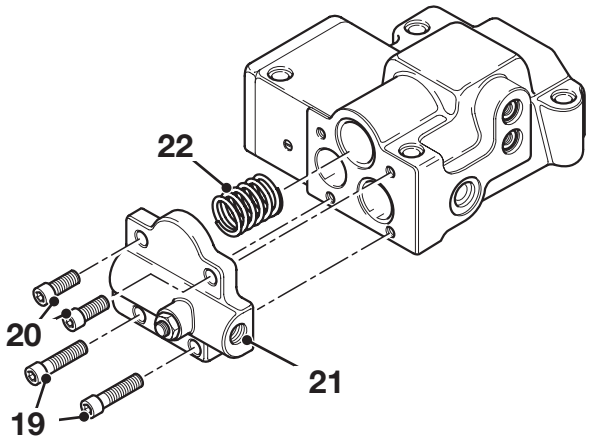


Fig 28.

5 Remove snap ring **29-23** taking care not to allow the components behind it to spring out. Take out spring seat **29-24** return spring **29-25** and sleeve **29-26** (complete with snap ring **34-27**).

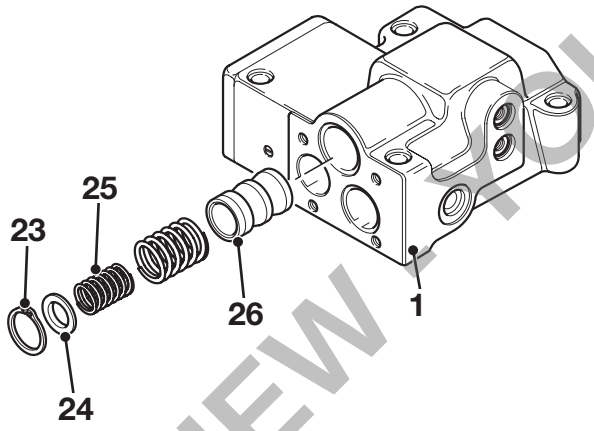


Fig 29.

6 Remove snap ring **30-28**and take out fulcrum plug **30-29**, complete with pin **30-33**. Remove snap ring **30-30** and take out adjusting plug **30-31**.

Note: *2 Use an M6 screw **30-Y** attached to the ends of fulcrum plug **30-29** and adjusting plug **30-31** to facilitate their easy removal.*

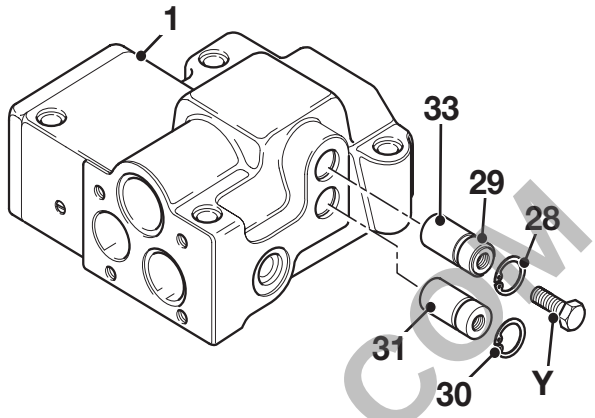


Fig 30.

7 Remove lever **31-32** leaving pin **31-33A** in position on the lever.

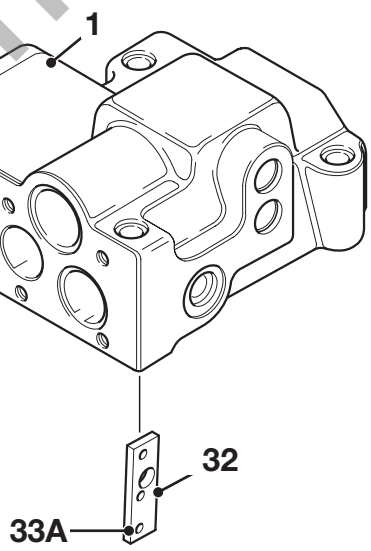


Fig 31.

8 Knock out pin **34-34**(4 mm dia.) using a suitable metal rod **32-X** and a plastic hammer.

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Item	Description	Qty
35	Orifice	1
36	O-ring	2
37	Plug	2
39	Spring	2
41	Sring	8

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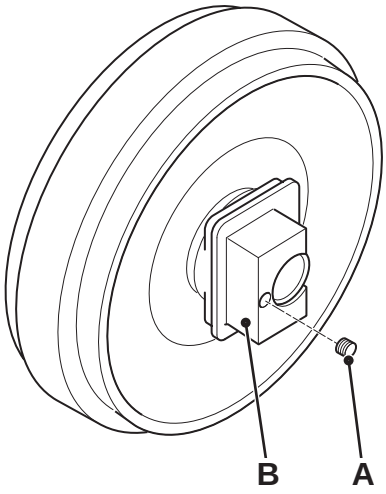
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Idler Wheel

Dismantling

TJ-001

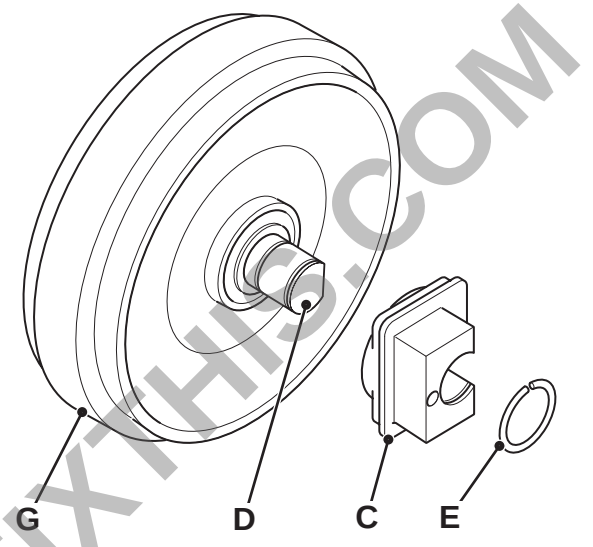
1 Clean the idler wheel with a suitable solvent. Remove the plug **A** from hub **B** and drain the oil.



T001050

Fig 9.

2 On one side of the unit only, remove the wire clip **E** or roll pin (later machines) and separate the hub **C** from shaft **D**.



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Fig 10.

3 Remove 'O'-ring **F** from shaft **D**. Pull out the shaft **D** from the idler wheel **G**.

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Use for identification the repair part			Engine fault LED	Caution LED	Buzzer ON (1.5 sec)	Error Code Display (eg. ENG P0335)	Message Displayed
P1282	Accel sensor circuit 2 (low input)	The voltage of accel sensor No.2 falls below 0.199V.	✓			✓	
P1283	Accel sensor circuit 2 (high input)	The voltage of accel sensor No.2 exceeds 4.9V.	✓			✓	
P1287	Accel sensor circuit 3 (low input)	The voltage of accel sensor No.3 falls below 0.199V.	✓			✓	
P1288	Accel sensor circuit 3 (high input)	The voltage of accel sensor No.3 exceeds 4.9V.	✓			✓	
P1345	Cam&Crank sensor pulse phase (Phase difference)	Difference Cam pulse is beside the Crank gap position	✓	✓	✓	✓	
P1625	Main relay circuit	Output of Main relay coils: On, and the voltage of main relay line is 1V or less.	✓	✓	✓	✓	NO RESTART
P1625	Main relay circuit	Output of Main relay coils: Off, and the voltage of main relay line is 18V or more.	✓	✓	✓	✓	NO RESTART
P1630	A/D conversion	A/D does not convert.	✓		✓	✓	LOW POWER
P1631	5 Volt reference 1 circuit	IGKEY power battery is 5.5 V or more, or 4.5 V or less at the battery voltage range:16V~32V.	✓		✓	✓	LOW POWER
P1632	5 Volt reference 2 circuit	IGKEY power battery is 5.5 V or more, or 4.5 V or less at the battery voltage range:16V~32V.	✓			✓	
P1633	5 Volt reference 3 circuit	IGKEY power battery is 5.5 V or more, or 4.5 V or less at the battery voltage range:16V~32V.	✓			✓	
P1634	5 Volt reference 4 circuit	IGKEY power battery is 5.5 V or more, or 4.5 V or less at the battery voltage range:16V~32V.	✓			✓	
P1635	5 Volt reference 5 circuit	IGKEY power battery is 5.5 V or more, or 4.5 V or less at the battery voltage range is from 16V to 32V.	✓		✓	✓	LOW POWER

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