YANMAR

SERVICE MANUAL

EXCAVATOR

ViO26-6

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CONTENTS

CHAPTER 1
GENERAL CAUTIONS FOR MAINTENANCE WORK

1-1 Correct Work 1-1
1-2 Safety Precautions 1-1
1-3 Preparations 1-1
1-4 Cautions for Disassembly and Reassembly 1-1
1-5 Cautions for Removal and Installation of Hydraulic Equipment 1-2
1-6 Cautions for Removal and Installation of Hydraulic Piping 1-2
1-7 Cautions for Handling Seals 1-3
1-8 Correct Installation of Hydraulic Hose 1-3
1-9 Specifications of Hydraulic Hose 1-6
1-10 Air Release of Hydraulic Equipment 1-8

CHAPTER 2
TECHNICAL DATA

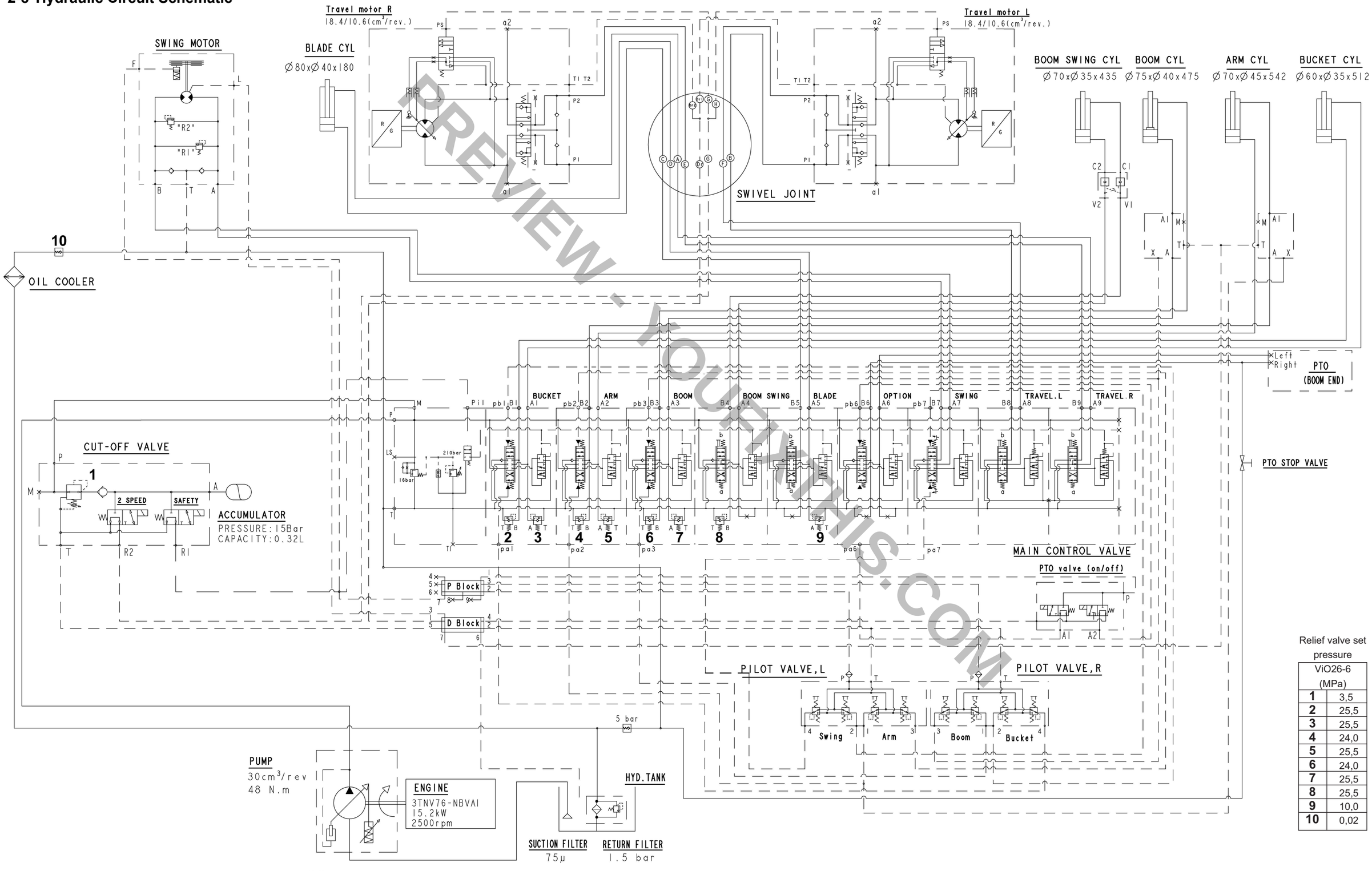
2-1 Specifications 2-1-1
2-2 Outline Drawing and Working Area 2-2-1
2-3 Weight List of Main Parts 2-3-1
2-4 Lifting Capacity List 2-4-1
2-5 Specifications for Attachment 2-5-1
2-6 Periodic Inspection and Servicing 2-6-1
2-7 Fuel, Lube Oil and Grease Recommended 2-7-1
2-8 Hydraulic Circuit Schematic 2-8-1
2-9 Wiring Diagram 2-9-1

CHAPTER 3
SERVICE STANDARDS

3-1 Machine Performance 3-1-1
3-2 Engine 3-2-1
3-3 Undercarriage 3-3-1
3-3-1 Rubber Track Specifications 3-3-1
3-3-2 Steel Track Specifications 3-3-2
3-3-3 Common Specifications of Steel & Rubber Crawlers 3-3-4
3-4 Controls 3-4-1
3-5 Hydraulic Equipment 3-5-1
3-5-1 Hydraulic Cylinders 3-5-1
3-6 Implement 3-6-1
3-6-1 Front Attachments 3-6-1
3-6-2 Blade Moving Device 3-6-2
3-7 List of Tightening Torque 3-7-1
3-7-1 Machine 3-7-1
3-7-2 Engine 3-7-5
3-7-3 Tightening Torque for General Bolts and Nuts 3-7-6
3-7-4 Hydraulic Fitting 3-7-7
3-8 Pressure Adjustment 3-8-1
3-8-1 Relief Valves 3-8-1
3-8-2 Swing Brake Valve 3-8-4

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2-8 Hydraulic Circuit Schematic



Relief valve set pressure

	ViO26-6 (MPa)
1	3,5
2	25,5
3	25,5
4	24,0
5	25,5
6	24,0
7	25,5
8	25,5
9	10,0
10	0,02

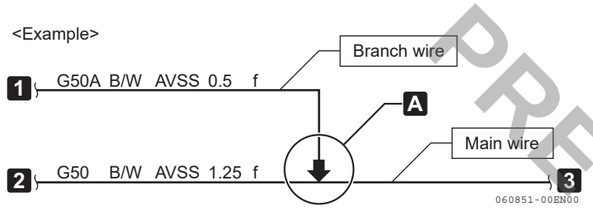
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2-9 Wiring Diagram

■ How to Read Wiring Diagrams

● Intersections and Wire Connections

<Example>



The point of arrow **A** on the main wire shown in the figure above represents an intersection of the branch wire and the main wire.
The direction of the arrow indicates which one is the branch wire (the arrowed line represents the branch wire) and also shows the division between the branch wire and the main wire.

In the example above, the wires are divided as follows.

1 to the point of arrow **A** : Branch wire G50A B/W AVSS 0.5 f
2 to **3** : Main wire G50 B/W AVSS 1.25 f

● How to Read Wiring Symbols

G50 B/W AVSS 1.25 f

- G50: Circuit symbol
- AVSS 1.25 f: Wire type and size
- B/W: Wire color (Ground color/stripe color)

Wire color: B/W means:
Stripe color: White
Ground color: Black
Band symbol (No relation to the color)

Wire color: B means:
Ground color: Black
Band symbol (No relation to the color)

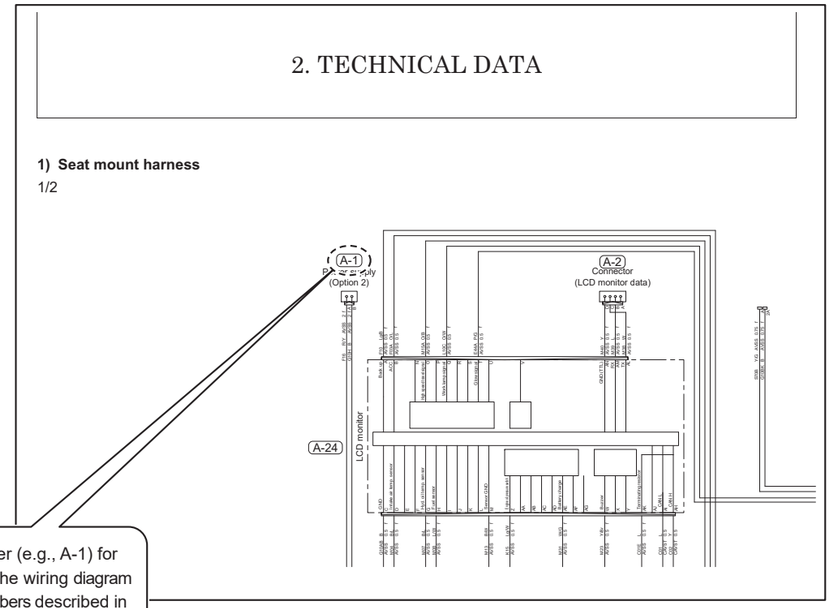
Wire color codes

W	White	P	Pink
R	Red	Br	Brown
B	Black	Lg	Light green
Y	Yellow	Sb	Sky blue
G	Green	Or	Orange
L	Blue	Gr	Gray
		V	Violet

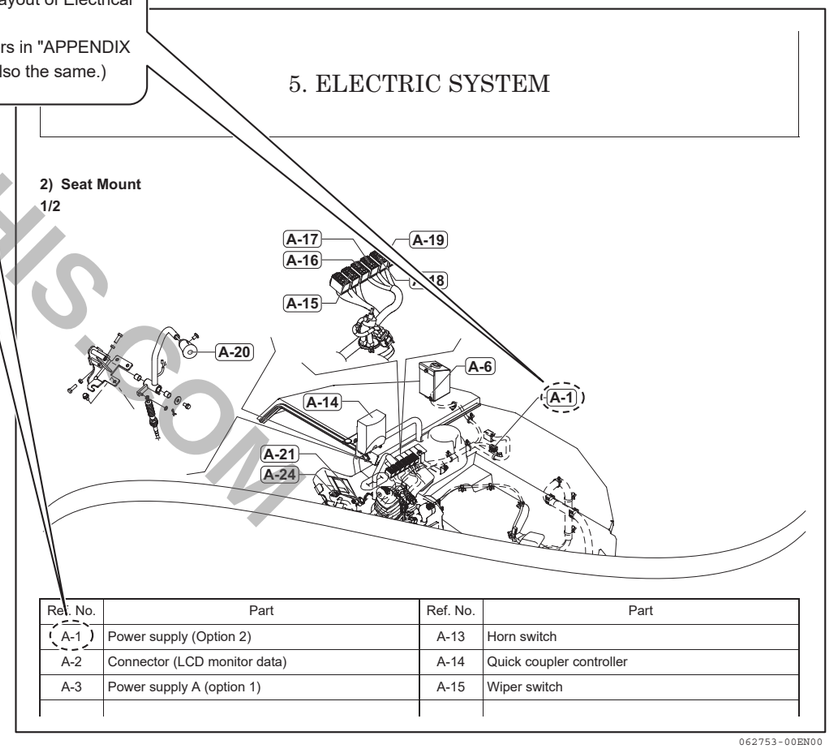
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● Reference numbers

<Example>



Each reference number (e.g., A-1) for electric equipment in the wiring diagram corresponds to the numbers described in Section "5-1-1 Parts Layout of Electrical Equipment".
(The reference numbers in "APPENDIX Wiring Diagram" are also the same.)



Ref. No.	Part	Ref. No.	Part
(A-1)	Power supply (Option 2)	A-13	Horn switch
A-2	Connector (LCD monitor data)	A-14	Quick coupler controller
A-3	Power supply A (option 1)	A-15	Wiper switch

062753-00EN00

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2. TECHNICAL DATA

2. Technical Data

2-1 Specifications

Item				Unit	ViO26-6
Main specifications of machine					
Dimensions					
Overall length (Transportation position)				mm	4100
Cabin	Overall height		Transportation position	mm	2530
			Traveling position	mm	2530
	Overall width		Full machine width	mm	1500
Canopy	Overall height		Transportation position	mm	2530
			Traveling position	mm	2530
	Overall width		Full machine width	mm	1500
Tumbler center distance (Steel track / rubber track)				mm	1590
Track gauge				mm	1250
Minimum ground clearance				mm	320
Traveling performance					
Travel speed	Steel track		Low speed (Forward/Reverse)	km/hr	2,8
			High speed (Forward/Reverse)	km/hr	4,5
	Rubber track		Low speed (Forward/Reverse)	km/hr	2,8
			High speed (Forward/Reverse)	km/hr	4,5
Permissible water depth limit				mm	500
Work performance					
Bucket	Width (Standard)			mm	400
	[Standard. JIS heaped capacity]			cm^3	0,06
	Number of teeth / Installation method			pcs.	3 / Bolt lock type
Work range					
Maximum digging depth	With blade raised (Std Arm / Long Arm)			mm	2530 / 2780
	With blade on the ground (Std Arm / Long Arm)			mm	2710 / 2960
Maximum depth of vertically digging				mm	955
Maximum dumping height (Std Arm / Long Arm)				mm	2815 / 2965
Minimum front swing radius (with boom in front center)			Cabin	mm	1950
			Canopy	mm	
Minimum front swing radius (with boom in full swing)			Cabin	mm	1635
			Canopy	mm	

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2-6 Periodic Inspection and Servicing

○: Verification and adjustment ●: Replacement □: Cleaning ■: Greasing

Parts & Operations		Daily	Every 50h	Every 250h	Every 500h	Every 1000h / Every year	Every 2000h / Every two years
General	Missing or broken parts	○					
	Tightening of nuts and bolts	○					
	Motor state	○					
	Machine	□					
Transmissions	Oil for travel gears		● 1st time		○	●	
	Rotation reducer		● 1st time		○	●	
Hydraulic circuit	Hydraulic oil	○				●	
	Aspiration filter					□	
	Hydraulic oil return filter		● 1st time		●		
	Operation of the accumulator	○					
Greasing	Greasing points	■					
	Rotation pin and crown		■				
Chassis	Bearing rollers and bearings, idler wheels	○				■	
	Track tension	○					
Electrical equipment	Headlights, horn, travel alarm	○					
	Dashboard and indicators	○					
	System state	○					
Engine	Water separator	○					
	GO filter			●			
	Air filter (dusty atmosphere every 250 h)				●		
	Engine oil	○	● 1st time		●[1]		
	Oil filter		● 1st time		●[1]		
	Cooling fluid	○					●
	Belt	○				●	
	Radiator vents	○			□		
	Fuel hose, coolant hose						●
	Intake and exhaust valves					○	
	Injectors and injection pressure						○
Heating						○	

1. Every 500h / Every year

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2-7 Fuel, Lube Oil and Grease Recommended

Components	Fluid	Temperatures °C								Quantity prescribed (L)	
		-	-20	-10	0	10	20	30	+		
Thermal engine	Engine oil		SAE 10W CD							3,4	–
			SAE 10W-30 CD								
				SAE 15W-40 CD							
Travel gears	Box oil	SAE 90 (GL-4)								0,5	by reducer
Hydraulic circuit	Hydraulic oil			ISO VG46						25,0	in the tank
										14,0	the rest
Fuel tank	Diesel					N° 2-D				30,4	–
			N° 3-D								
		N° 3-D (S)									
Cooling system	Long-life cooling fluid **YANMAR POWER COOLANT B–36**									3,4	Radiator
										0,4	the expansion flask

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5-4 Error Code List

Error code	Classification	Error description	Detection condition	Causes	Corrective measures
00 000091.00	Caution	Accelerator sensor malfunction: above normal operating range (SAEJ1843)	Sensor voltage is 4.6 V or more, or 0.2 V or less.	• Connection failure of connectors • Harness wiring failure (engine control dial wiring disconnected or short circuited to GND) • Defective accelerator sensor • Engine ECU internal circuit failure	Check the connectors, harnesses and engine control dial. Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.
00 000091.01	Caution	Accelerator sensor failure: below normal operating range (SAEJ1843)	Sensor voltage is 4.6 V or more, or 0.2 V or less.	• Connection failure of connectors • Harness wiring failure (engine control dial wiring disconnected or short circuited to GND) • Defective accelerator sensor • Engine ECU internal circuit failure	Check the connectors, harnesses and engine control dial. Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.
00 000091.02	Caution	Accelerator sensor malfunction: intermittent failure	Sensor voltage is 4.6 V or more, or 0.2 V or less.	• Connection failure of connectors • Harness wiring failure (nearly broken wiring of sensor signal line, sensor 5 V line or sensor GND line) • Defective accelerator sensor • Engine ECU internal circuit failure	Check the connectors, harnesses and accelerator sensor. Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.
00 000091.03	Caution	Accelerator sensor malfunction: short circuit to high voltage side	Sensor voltage is 4.6 V or more, or 0.2 V or less.	• Connection failure of connectors • Harness wiring failure (sensor GND line disconnected or sensor signal line short circuited to power supply) • Defective accelerator sensor • Engine ECU internal circuit failure	Check the connectors, harnesses and accelerator sensor. Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.
00 000091.04	Caution	Accelerator sensor malfunction: short circuit to low voltage side	Sensor voltage is 4.6 V or more, or 0.2 V or less.	• Connection failure of connectors • Harness wiring failure (sensor signal line disconnected or short circuited to GND, or sensor 5V line disconnected or short circuited to GND) • Defective accelerator sensor • Engine ECU internal circuit failure	Check the connectors, harnesses and accelerator sensor. Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.
00 000091.15	Caution	Accelerator sensor malfunction: disabled (SAEJ1843)	Sensor voltage is 4.6 V or more, or 0.2 V or less.	Engine ECU map data setting fault	Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.
00 000100.01	Warning	Abnormal engine oil pressure	Engine oil pressure switch is on after engine has started.	• Low engine oil pressure • Defective engine oil system • Harness wiring failure (engine oil pressure switch wiring short circuited to GND) • Defective engine oil pressure switch • Engine ECU internal circuit failure	Inspect the engine oil system. Check the harnesses and engine oil pressure switch. Turn the starter switch to the "OFF" position and then to the "ON" position to check if the error code is displayed again.
00 000100.04	Warning	Engine oil pressure switch failure	Engine oil pressure switch is off while engine is stopped with starter switch in the "ON" position.	• Connection failure of connectors • Harness wiring failure (engine oil pressure switch wiring disconnected or short circuited to power supply) • Defective engine oil pressure switch • Engine ECU internal circuit failure	Check the connectors, harnesses and engine oil pressure switch. Turn the starter switch to the "OFF" position and then to the "ON" position to check if the error code is displayed again.
00 000110.00	Warning	Engine coolant temperature sensor malfunction: too high	Sensor voltage is 4.8 V or more.	• Engine overheating • Insufficient amount of engine coolant • Defective engine cooling system • Defective coolant temperature sensor system	Inspect the engine cooling system. Check the connectors, harnesses and coolant temperature sensor. Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.
00 000110.02	Warning	Engine coolant temperature sensor malfunction: intermittent failure	Error undefined is detected 10 times.	• Connection failure of connectors • Harness wiring failure (nearly broken wiring of sensor signal line, sensor 5 V line or sensor GND line) • Defective coolant temperature sensor • Engine ECU internal circuit failure	Check the connectors, harnesses and coolant temperature sensor. Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.
00 000110.03	Warning	Engine coolant temperature sensor malfunction: short circuit to high voltage side	Sensor voltage is 4.8 V or more.	• Connection failure of connectors • Harness wiring failure (sensor signal line disconnected or short circuited to power supply, or sensor GND line disconnected) • Defective coolant temperature sensor • Engine ECU internal circuit failure	Check the connectors, harnesses and coolant temperature sensor. Turn the starter switch to the “OFF” position and then to the “ON” position to check if the error code is displayed again.

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1 – Baffle Plate
2 – Oil Fill Cap
3 – Valve Cover / Intake Manifold
4 – Gasket
5 – Rocker Arm Shaft
6 – Rocker Arm Shaft Support
7 – Adjuster Lock Nut
8 – Valve Adjuster Screw
9 – Rocker Arm
10 – Circlip
11 – Valve Cap
12 – Keeper
13 – Valve Spring Retainer
14 – Valve Spring
15 – Valve Stem Seal
16 – Valve Guide
17 – Cylinder Head
18 – Exhaust Valve
19 – Intake Valve
20 – Cylinder Head Gasket
21 – Push Rod (2 per cylinder)
22 – Glow Plug
23 – Glow Plug Wiring Harness
24 – Cylinder Head Bolt

Disassembly of Cylinder Head

Prepare a clean, flat working surface on a workbench large enough to accommodate the cylinder head assembly. Discard all gaskets, O-rings and seals. Use new gaskets, O-rings and seals on reassembly of cylinder head.

IMPORTANT

Mark all valve train components so they can be installed in their original locations.

Note: Record all measurements taken during disassembly.

1. Drain coolant from engine into a suitable container.

NOTICE

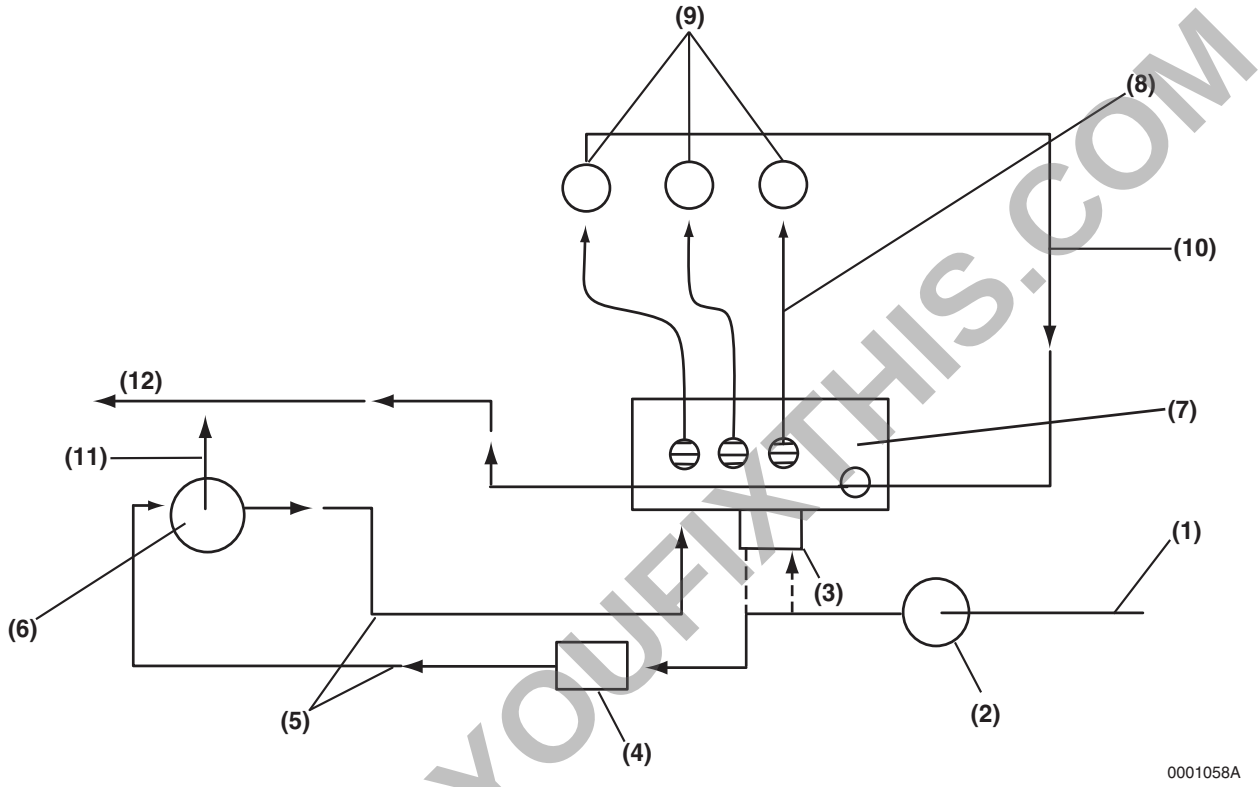
Identify all parts and their location using an appropriate method. It is important that all parts are returned to the same position during the reassembly process.

---

2. Remove the coolant pump. *See Disassembly of Engine Coolant Pump on page 4-4-4.*
3. Remove the high-pressure fuel lines and fuel injectors from the cylinder head. *See Removal of Fuel Injectors on page 4-3-18.*

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4-3-5 Fuel System Diagram



1 – Diesel Fuel Supply
2 – Fuel Filter / Water Separator
3 – Mechanical Fuel Pump (Used in place of the electric fuel pump on some models)
4 – Electric Fuel Pump (Used on models without mechanical fuel pump)
5 – Low-Pressure Fuel Supply Lines
6 – Fuel Filter
7 – Fuel Injection Pump
8 – High-Pressure Fuel Injection Lines
9 – Fuel Injectors
10 – Fuel Return from Fuel Injectors
11 – Air Bleed Orifice
12 – Fuel Return to Tank

Figure 4-3-2

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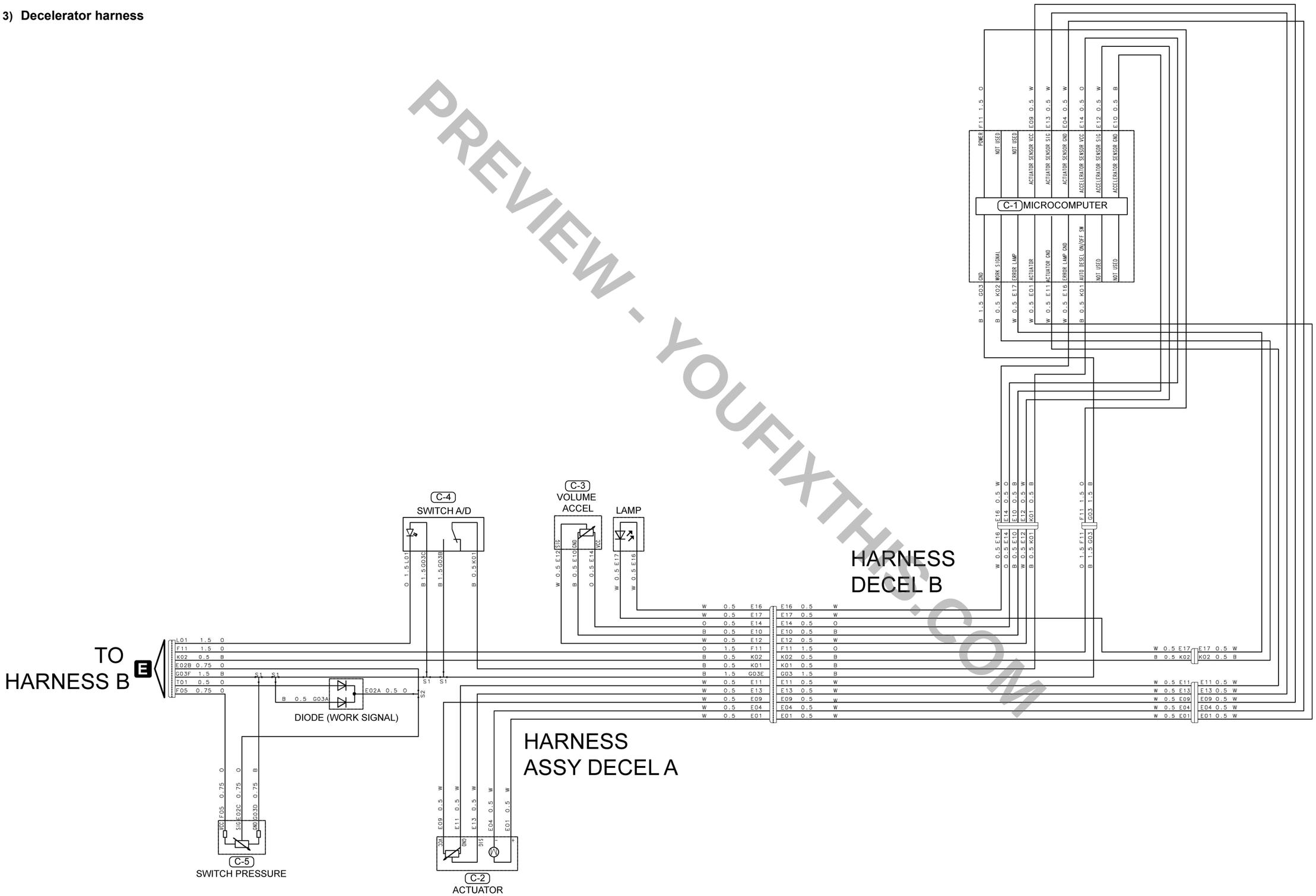
3-7 List of Tightening Torque

3-7-1 Machine

Applicable model			ViO26-6		
Equipment No		Tightening part	Thread size	Tightening torque N•m	Adhesive
Engine & Electrical equipment					
	1	Engine mount vibroisolating rubber	Nut 10	24,5 to 32,3	
	2	Engine × Engine mount (Front Left)	M10×25	67 to 79	ThreeBond 1324
	3	Engine × Engine mount (Front Right)	M10×25	67 to 79	ThreeBond 1324
	4	Engine × Engine mount (Rear Left)	M10×25	67 to 79	ThreeBond 1324
	5	Engine × Engine mount (Rear Right)	M10×25	67 to 79	ThreeBond 1324
	6	Engine mount × Stopper (Rear Left)	M10×25	67 to 79	ThreeBond 1324
	7	Engine mount × Stopper (Front Right)	M10×25	67 to 79	ThreeBond 1324
	8	Air cleaner	M8×20	23 to 27	
	9	Air cleaner intake hose	Hose clip 60	2,6 to 2,7	
	10	Cooling water hose	Hose clip 25 & 35	2,5 to 3,5	
	11	Oil cooler hose	Hose clip 22	2,5 to 3,5	
	12	Fuel level gauge unit	M5×12 (Pan head screw)	1,2 to 1,5	
	13	Fuel level gauge hose	Hose band 13	2,5 to 3,5	
	15	Fuel oil tank holding band	Nut 8	2,5 to 3 <Tank holding side>	23 to 27 <Lock nut side>
	16	Battery holding bracket	M8x16	23 to 27	
	17	Accelerator cable locknut	Nut 6	3.92 to 4.90	
	18	Accelerator cable bracket	M6×12	9.5 to 11.5	
	19	Wire harness × Starter motor terminal	Nut 8	5.9 to 11.8	
	20	LCD monitor × Panel cover	M6×20	1 to 1,5	
	21	Panel cover (lower) × Panel cover (upper)	M5×14 (Tapping screw)	2,5 to 3,3	
	22	Safety switch (Cut-off lever)	Locknut (Fine thread) 20	19.6 to 24.5	
	23	Accelerator dial (holding nut)	Nut (Fine thread) M9	1.3 to 1.5	

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3) Decelerator harness



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3-7-2 Engine

1) Tightening torque of major components fasteners

Unit: N•m

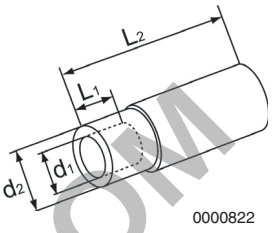
No.	Item	Thread size × Pitch	Tightening torque	Lubricating oil
1	Cylinder head bolt	M9 × 1.25	53.9 to 57.9	Applied
2	Connecting rod bolt	M7 × 1.0	22.6 to 27.5	Applied
3	Flywheel bolt	M10 × 1.25	80.4 to 86.4	Applied
4	Main crankshaft bearing cap bolt	M10 × 1.25	75.5 to 81.5	Applied
5	Crankshaft pulley bolt	M12 × 1.25	113 to 123	Applied
6	Glow plug	M10 × 1.25	14.7 to 19.6	Not applied

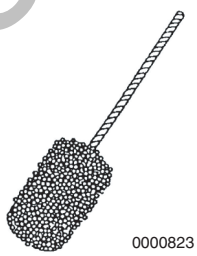
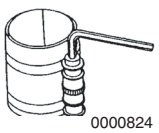
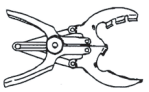
2) Tightening torque of major fuel system components fasteners

Unit: N•m

No.	Item	Thread size × Pitch	Tightening torque	Lubricating oil
1	Fuel injector	M20 × 1.5	49 to 59	Not applied
2	Fuel pump drive gear nut	M12 × 1.5	59 to 69	Not applied
3	High-pressure fuel piping nut	M12 × 1.5	29 to 34	Not applied
4	Fuel return piping nut	M12 × 1.5	24 to 33	Not applied
5	Fuel injection pump holding nut	M8 × 1.25	23 to 28	Not applied
6	Fuel injector nozzle case nut	M16 × 0.75	29 to 49	Not applied

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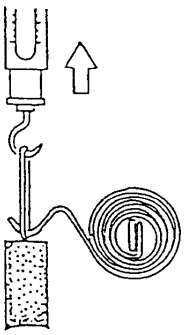
<table>
<tr><th>No</th><th>Tool Name</th><th>Applicable Model and Tool Size</th><th>Illustration</th></tr>
<tr><td>6</td><td>Camshaft Bushing Tool (For Removing Camshaft Bushing)</td><td>
<table>
<tr><td>L1</td><td>L2</td><td>d1</td><td>d2</td></tr>
<tr><td>18 mm</td><td>70 mm</td><td>45 mm</td><td>48 mm</td></tr>
<tr><td colspan="2">Locally Manufactured</td><td>Allowance d1: -0.3 to -0.6mm</td><td>Allowance d2: -0.3 to -0.6mm</td></tr>
</table>
</td><td>

0000822</td></tr>
<tr><td>7</td><td>Flex-Hone (For Preparing Cylinder Walls)</td><td>
<table>
<tr><td>Yanmar Part No.</td><td>Cylinder Bore</td></tr>
<tr><td>129400-92410</td><td>70 - 76 mm</td></tr>
</table>
</td><td>
0000823</td></tr>
<tr><td>8</td><td>Piston Ring Compressor (For Installing Pistons)</td><td>Yanmar Part No. 955500-02476
The Piston Insertion Tool is Applicable for 60 - 125 mm Diameter Pistons</td><td>
0000824</td></tr>
<tr><td>9</td><td>Piston Ring Tool (For Removing/ Installing of Piston Rings)</td><td>Available Locally</td><td>
0000825</td></tr>
</table>

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Brush Spring Test

Test the spring force for each brush spring **(Figure 4-6-22)**. Replace the brush spring if the force is not within the range. *See Starter Motor Specifications on page 4-6-2 for the service limit.*



0000123

Figure 4-6-22

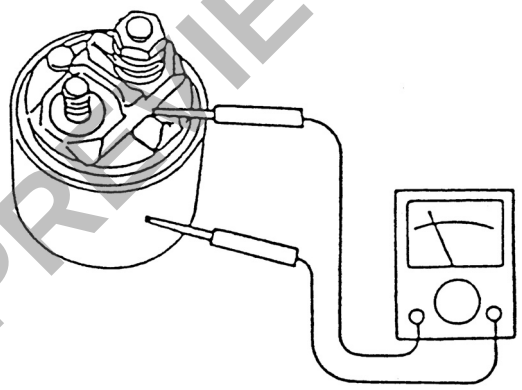
Solenoid Switch

If the starter motor becomes wet, replace the solenoid switch even if the solenoid switch assembly function is normal.

Shunt Coil Continuity Test

Check for continuity between the “S” terminal and the switch body using a multimeter **(Figure 4-6-23)**. The multimeter should indicate continuity.

If the multimeter does not indicate continuity, replace the solenoid switch.



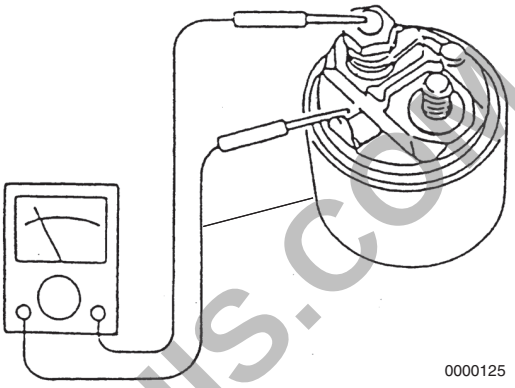
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Figure 4-6-23

Series Coil Continuity Test

Check for continuity between the “S” and “M” terminals using a multimeter **(Figure 4-6-24)**. The multimeter should indicate continuity.

If the multimeter does not indicate continuity, replace the solenoid switch.



0000125

Figure 4-6-24

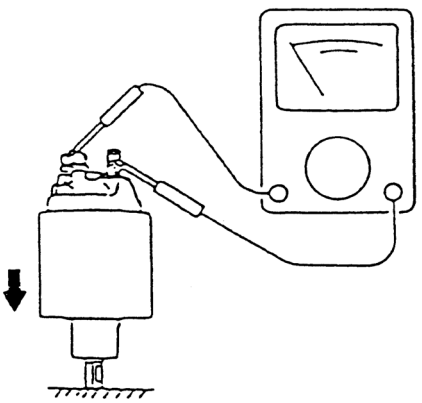
Coil Resistance Test

See Starter Motor Specifications on page 4-6-2 for service limit.

Contact Continuity Test

Depress the plunger at the bottom of the solenoid switch. Check for continuity between the “B” and “M” terminals using a multimeter **(Figure 4-6-25)**. The multimeter should indicate continuity.

If the multimeter does not indicate continuity, replace the solenoid switch.

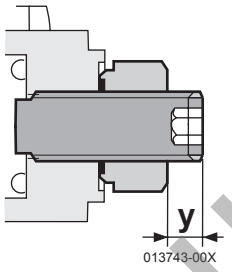


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Figure 4-6-25

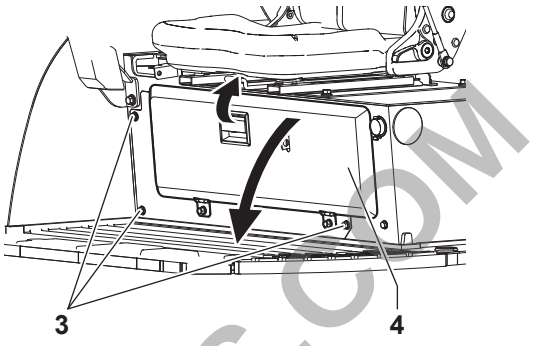
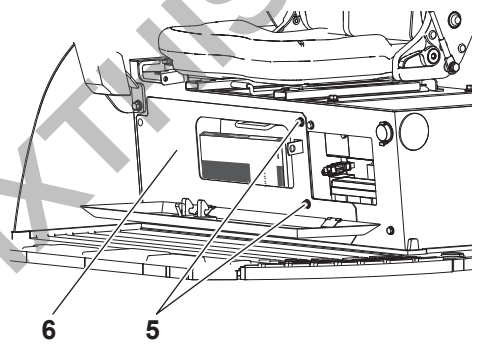
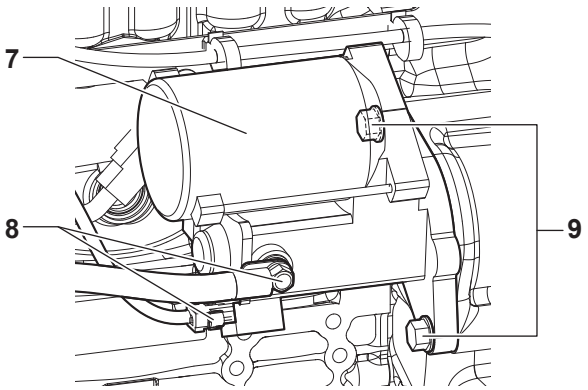
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4) Hydraulic Operation Removal

Procedure	
Note : *The control block does not need to be removed from the machine to perform this operation.* **Machine off :** **- place all of the machine's actuators connected to the control block in neutral position,** **- release stored pressure by manipulating all the spools.** ***Note :*** *Install a vacuum pump on the tank to limit oil leakage during this operation.* *Collect possible leaks with a suitable receptacle.*	
Tongue replacement (if necessary) ***Note :*** *Using a vernier, measure before replacement the dimension **y** between the stopnut screw and the nut tip (see diagram below).* *This value **y** is to be thoroughly respected when reassembling to ensure an identical flow adjustment.*  Remove: - nut (13 mm open end spanner) - screw (4 mm socket wrench) Reassembly : torque : 3 ± 10% N.m.	
Hydraulic control housing removal Remove the 2 mounting screws (screwdriver Torx Tx20 for Torx screws, or 3 mm socket wrench for CHc screws). Reassembly : torque : 3 ± 10% N.m.	
Remove: - housing - spring - spring retainer Replace the O-ring. Reassemble parts in reverse order.	

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Procedure	
(4) Loosen three bolts **3** and open cover **4**.	
(5) Loosen two more bolts **5** to remove cover **6**.	
(6) Disconnect wire harness terminals **8** connected to starter motor **7**. ***Note:*** *Be sure to disconnect battery negative cable in advance.* (7) Loosen two mounting bolts **9** for starter motor to remove starter motor **7**.	

2) Reinstallation

Reinstall the starter motor in the reverse order to the removal procedure.

Note:

Be sure to install the rubber cap onto the wiring terminal of the starter motor.

Starter motor mounting bolt (M10)	
Tightening torque	44.1 to 58.8 N•m

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