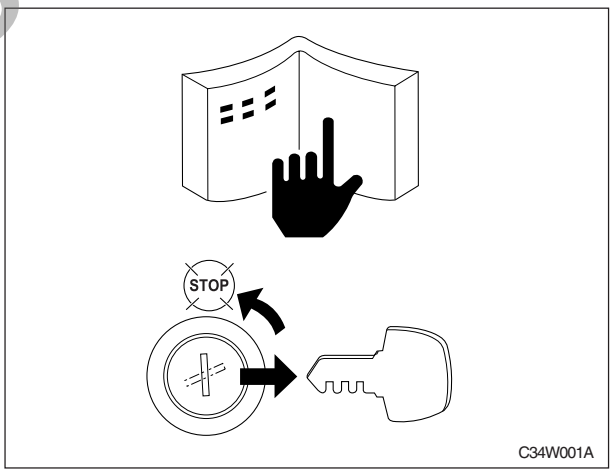
2. SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and the decals on the machine itself to warn of the possibility of personal injury. It is essential that you read the instructions and safety regulations before you attempt to repair or operate this unit. Read these instructions carefully.

SIGNS		DESCRIPTION
⚠	DANGER	This mark indicates hazardous situation which, if not observed, may result in death or fatal injury. This mark should be indicated for most dangerous situations only.
⚠	WARNING	This mark indicates potentially hazardous situation which, if not observed, may result in death or moderate injury.
⚠	CAUTION	This mark indicates potentially hazardous situation which, if not observed, may result in minor or moderate injury. And this mark can be used as a warning against unsafe activities.
⊕	IMPORTANT	This mark indicates emphasis on notable characteristics in working procedures or information on working procedures and technology for convenient use.
NOTE		Gives helpful information.

BEFORE SERVICING AND REPAIRING

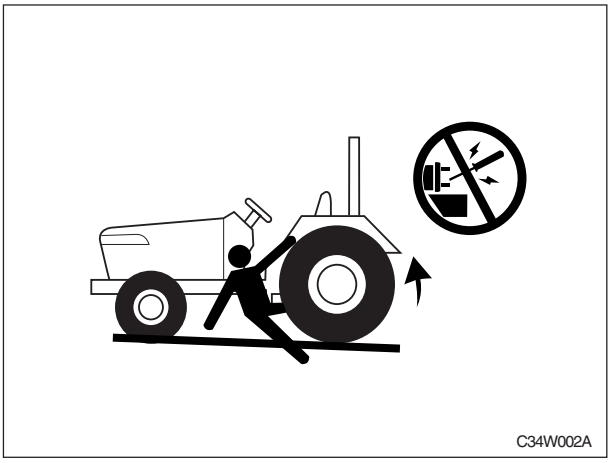
1. Read all safety instructions in this manual and be aware of the safety decals on your machine itself.
2. Thoroughly clean your work area and the machine.
3. Make sure the machine is on firm and level ground and that the parking brake is set.
4. Lower the implement to the ground.
5. Stop the engine and remove the key.
6. Disconnect the negative battery cable.
7. Place a "DO NOT OPERATE" tag in operator station.



C34W001A

SAFETY STARTING

1. Always use the safety start switch to start the engine and never by any other means.
2. Do not alter or remove any part of machine safety system.
3. Before starting the engine, make sure that all shift levers are in neutral positions or in the disengaged positions.
4. Never start the engine unless you are in the operator's seat.


C34W002A

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4. SPECIFICATIONS

	Model		DK651	DK751	DK801	DK901
Engine	Model		1103C-33T	1104C-44	1104C-44T (80HP)	1104C-44T (90HP)
	Type		3-cylinder, water-cooled, tubo diesel	4-cylinder, water-cooled, diesel	4-cylinder, water-cooled, Tubo diesel	
	Engine gross	HP (kW)/rpm	Max. 64 (48)/2,200	Max. 72.4 (54)/2,200	Max. 80 (60)/2,200	Max. 90 (67)/2,200
	P.T.O	HP (kW)/rpm	52 (39)/2,200	57 (43)/2,200	67 (50)/2,200	83 (62)/2,200
	Displacement	cc (cu.in)	3,300 (201)	4,400 (269)		
	Rated revolution	rpm (min-1)	2,200			
	Fuel tank capacity	ℓ (gal.)	100 (26.4)			
Drive train	Clutch		Dry single			
	Transmission		Synchro shuttle			
	Speeds		12F 12R			
	Differential lock		Standard			
	Brake		Wet disc type			
	P.T.O		Independent			
	Rear	rpm	540/750 (Option 540/1,000)			
Hydraulic system	Pump capacity (Max. flow rate)	ℓ/min (cc)	1st: 41.2 (14.4) 2nd: 31.7 (11.1)	1st: 45.3 (20.6) 2nd: 31.7 (14.4)		
	3-point hitch		Cat.1 & 2	Cat.2		
	Maximum lifting capacity (24in. aft of hitch)	kg (lbs.)	Max. 2,400 (5,291)			
	Hydraulic lift control system		Position, draft and mixed control			
	Steering		Hydrostatic power steering			
	Drawbar type		Drawdar			
Standard tire size	Front		11.2 - 20			11.2 - 24
	Rear		14.9 - 30	16.9 - 30		16.9 - 34
Traveling speeds	Forward (At rated engine rpm)	km/h (mph)	1st: 0.42 (0.26) 12th: 28.71 (17.83)	1st: 0.43 (0.26) 12th: 29.55 (18.36)		1st: 0.45 (0.27) 12th: 31.34 (19.47)
	Reverse (At rated engine rpm)	km/h (mph)	1st: 0.41 (0.25) 12th: 28.11 (17.46)	1st: 0.42 (0.26) 12th: 28.93 (17.97)		1st: 0.44 (0.27) 12th: 30.68 (19.06)
Dimensions	Overall length (with 3p)	mm (in.)	4,062 (159.9)	4,234 (166.6)	4,267 (167.9)	
	Overall width (minimum tread)	mm (in.)	1,790 (70.4)	1,940 (76.3)		1,990 (78.3)
	Overall height (Cabin)	mm (in.)	2,650 (104.3)	2,710 (106.6)		2,754 (108.4)
	Wheel base	mm (in.)	2,048 (80.6)	2,142 (84.3)		
	Min. ground clearance	mm (in.)	4,23 (16.6)	443 (17.4)		470 (18.5)
	Tread Front	mm (in.)	1,473 (57.9)	1,534 (60.3)		1,576 (62.0)
	Tread Rear	mm (in.)	1,406 (55.3)	1,504 (59.2)		1,534 (60.3)
	Weight (cabin)	kg (lbs.)	3,093 (6,819)	3,331 (7,341)	3,421 (7,542)	3,557 (7,842)

NOTE:

The specifications are subject to change for the purpose of improvement without any notice.

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5. LUBRICANTS, FUEL AND COOLANT

To prevent serious equipment damage, use only genuine KIOTI fluids, oils and greases, or equivalents.

<table>
<tr><th rowspan="2">No.</th><th rowspan="2">Locations</th><th colspan="2">Capacities</th><th rowspan="2">Lubricants</th></tr>
<tr><th>DK651</th><th>DK751/801/901</th></tr>
<tr><td>1</td><td>Fuel</td><td colspan="2">100ℓ (26.4 U.S.gal.)</td><td>No.2-D diesel fuel
No.1-D diesel fuel if temperature is below -10°C (14°F)</td></tr>
<tr><td>2</td><td>Coolant</td><td>9.1ℓ
(2.4 U.S.gal.)</td><td>18.5ℓ
(4.9 U.S.gal.)</td><td>Fresh clean water with anti-freeze (50:50)</td></tr>
<tr><td>3</td><td>Engine crankcase</td><td>6.9ℓ
(1.82 U.S.gal.)</td><td>10.5ℓ
(2.77 U.S.gal.)</td><td>Engine oil: API Service Classification CC or CD
Above 25°C (77°F) — SAE30, SAE10W-30 or 10W-40
0 to 25°C (32 to 77°F) — SAE20, SAE10W-30 or 10W-40
Below 0°C (32°F) — SAE10W, SAE10W-30 or 10W-40</td></tr>
<tr><td>4</td><td>Transmission case</td><td colspan="2">60ℓ (15.85 U.S.gal.)</td><td>Multi-gradetransmission fuid the fuid listed below or equivalent are recommended.
Exxonmobil — Mobilfluid 423 or 424, Exxon hydraul 560
shell — DONAX-TD/TD Plus
BP — Tractran UTH</td></tr>
<tr><td>5</td><td>Front axle case</td><td colspan="2">Each 3.5ℓ (0.9 U.S.gal.)</td><td rowspan="2">SAE 90 gear oil or transmission case oil</td></tr>
<tr><td>6</td><td>Front axle</td><td colspan="2">4.5ℓ (1.2 U.S.gal.)</td></tr>
<tr><td>7</td><td>Greasing</td><td colspan="2">As necessary</td><td>Standad type grease</td></tr>
</table>

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6. TIGHTENING TORQUES

6.1 GENERAL USE SCREWS, BOLTS AND NUTS

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	4 No-grade or 4T						7 7T						9 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M6 (6 mm, 0.24 in.)	7.85 ~ 9.31	0.80 ~ 0.95	5.79 ~ 6.87	7.85 ~ 8.82	0.80 ~ 0.90	5.79 ~ 6.50	9.81 ~ 11.2	1.00 ~ 1.15	7.24 ~ 8.31	7.85 ~ 8.82	0.80 ~ 0.90	5.79 ~ 6.50	12.3 ~ 14.2	1.25 ~ 1.45	9.05 ~ 10.4
M8 (8 mm, 0.31 in.)	17.7 ~ 20.5	1.8 ~ 2.1	13.1 ~ 15.1	16.7 ~ 19.6	1.7 ~ 2.0	12.3 ~ 14.4	23.6 ~ 27.4	2.4 ~ 2.8	17.4 ~ 20.2	17.7 ~ 20.5	1.8 ~ 2.1	13.1 ~ 15.1	29.5 ~ 34.3	3.0 ~ 3.5	21.7 ~ 25.3
M10 (10 mm, 0.39 in.)	39.3 ~ 45.1	4.0 ~ 4.6	29.0 ~ 33.2	31.4 ~ 34.3	3.2 ~ 3.5	23.2 ~ 25.3	48.1 ~ 55.8	4.9 ~ 5.7	35.5 ~ 41.2	39.3 ~ 44.1	4.0 ~ 4.5	29.0 ~ 32.5	60.9 ~ 70.6	6.2 ~ 7.2	44.9 ~ 52.0
M12 (12 mm, 0.47 in.)	62.8 ~ 72.5	6.4 ~ 7.4	46.3 ~ 53.5				77.5 ~ 90.2	7.9 ~ 9.2	57.2 ~ 66.5	62.8 ~ 72.5	6.4 ~ 7.4	46.3 ~ 53.5	103 ~ 117	10.5 ~ 12.0	76.0 ~ 86.7
M14 (14 mm, 0.55 in.)	108 ~ 125	11.0 ~ 12.8	79.6 ~ 92.5				124 ~ 147	12.6 ~ 15.0	91.2 ~ 108				167 ~ 704	17.0 ~ 20.0	123 ~ 144
M16 (16 mm, 0.63 in.)	167 ~ 191	17.0 ~ 19.5	123 ~ 141				197 ~ 225	20.0 ~ 23.0	145 ~ 166				260 ~ 304	26.5 ~ 31.0	192 ~ 224
M18 (18 mm, 0.71 in.)	246 ~ 284	25.0 ~ 29.0	181 ~ 209				275 ~ 318	28.0 ~ 32.5	203 ~ 235				344 ~ 402	35.0 ~ 41.0	254 ~ 296
M20 (20 mm, 0.79 in.)	334 ~ 392	34.0 ~ 40.0	246 ~ 289				368 ~ 431	37.5 ~ 44.0	272 ~ 318				491 ~ 568	50.0 ~ 58.0	362 ~ 419

6.2 STUD BOLTS

Material of opponent part	Ordinariness			Aluminum		
Unit / Diameter	N·m	kgf·m	lbf·ft	N·m	kgf·m	lbf·ft
M8 (8 mm, 0.31 in.)	11.8 ~ 15.6	1.2 ~ 1.6	8.68 ~ 11.5	8.82 ~ 11.8	0.90 ~ 1.2	6.51 ~ 8.67
M10 (10 mm, 0.39 in.)	24.6 ~ 31.3	2.5 ~ 3.2	18.1 ~ 23.1	19.7 ~ 25.4	2.0 ~ 2.6	14.5 ~ 18.8
M12 (12 mm, 0.47 in.)	29.5 ~ 49.0	3.0 ~ 5.0	21.7 ~ 36.1	31.4	3.2	23.1

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7. MAINTENANCE CHECK LIST

No.	Item	Period	Indication on Hour Meter																		After Purchase		Important	
			50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	1500	3000	1 year	2 years		
1	Engine oil	Change	⊙				●					●					●							
2	Engine oil filter	Change	⊙				●					●					●							
3	Transmission oil filter	Change	⊙			●				●				●				●						
4	Hydraulic oil filter	Change	⊙			●				●				●				●						
5	Transmission fluid	Change	⊙							●								●						
6	Front axle case oil	Change	⊙							●								●						
7	Front axle pivot	Adjust	●					●						●				●						
8	Engine start system	Check	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
9	Greasing	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●						
10	Wheel bolt torque	Check	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●						
11	Battery condition	Check		●		●		●		●		●		●		●		●					*4	
12	Air cleaner element	Clean		●		●		●		●		●		●		●		●					*1	
		Change																			●		*2	
13	Fuel filter element	Check																			Everyday			
		Change																			●			
14	Fan belt	Adjust		●		●		●		●		●		●		●		●						
15	Clutch	Adjust		●		●		●		●		●		●		●		●						
16	Brake	Adjust	⊙	●		●		●		●		●		●		●		●						
17	Radiator hose and clamp	Check				●				●				●				●						
		Change																				●		
18	Power steering oil line	Check				●				●				●				●						
		Change																				●		
19	Fuel line	Check		●		●		●		●		●		●		●		●						
		Change																				●		
20	Intake air line	Check				●				●				●				●						
		Change																				●	*3	
21	Toe-in	Adjust				●				●				●				●						
22	Engine valve clearance	Adjust																●						
23	Fuel injection nozzle injection pressure	Check																	●	●				
24	Injection pump	Check																		●				
25	Cooling system	Clean																				●		
26	Coolant	Change																				●		
27	Fuel system	Check																			Service as required			
28	Fuse	Change																						
29	Light bulb	Change																						
30	Drain moisture from clutch housing	Drain																						

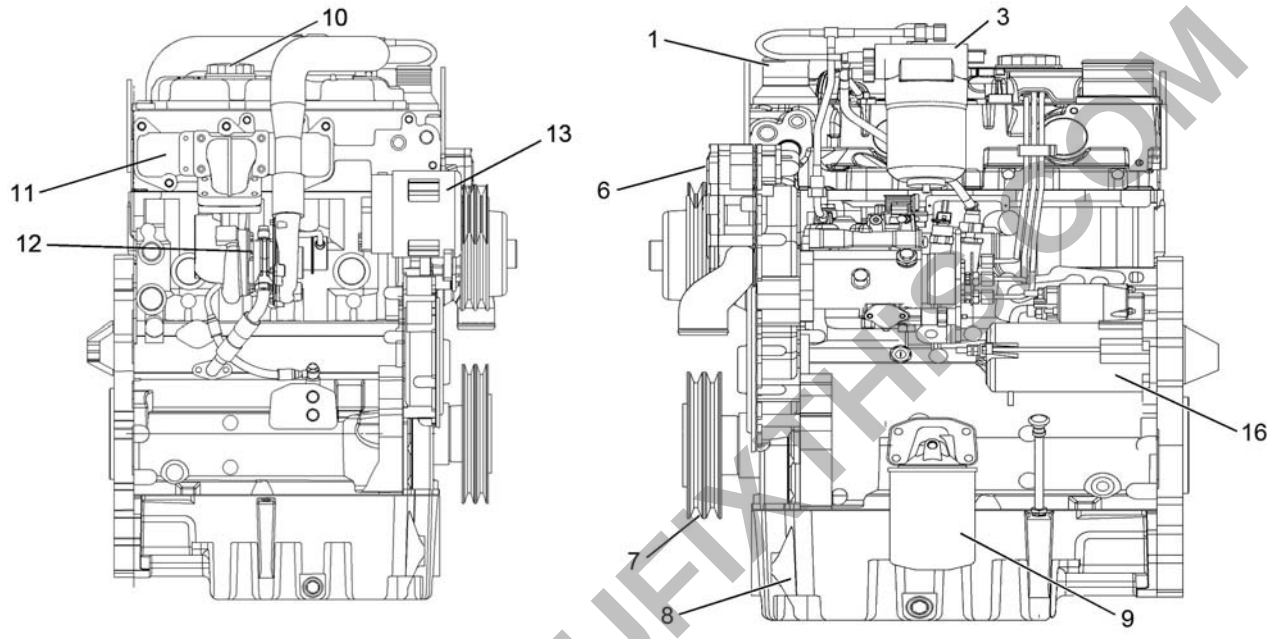
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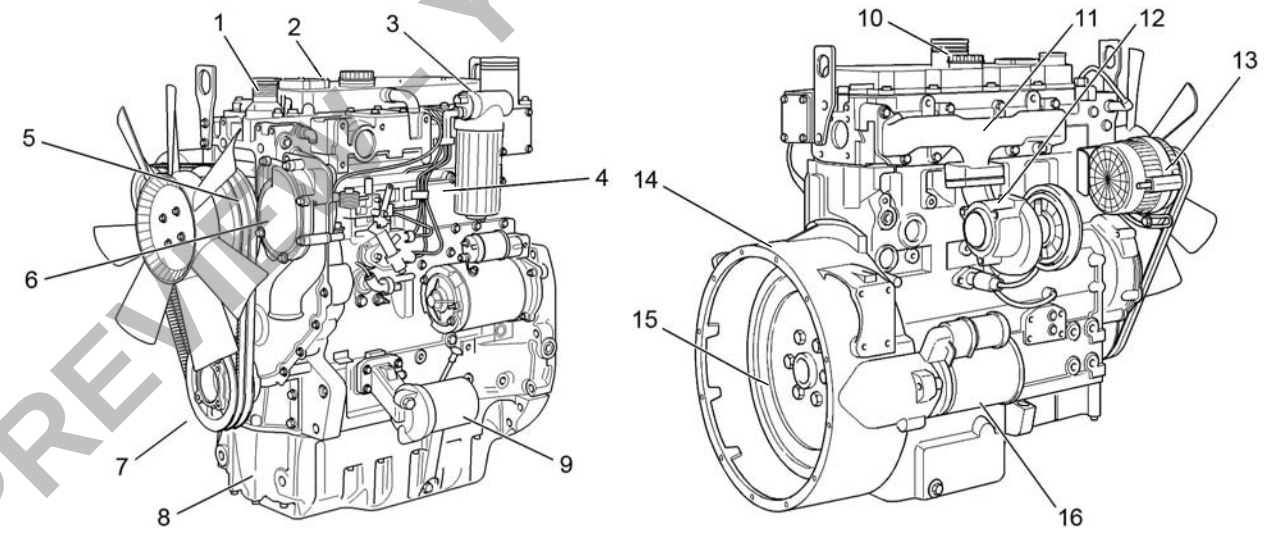
1. SYSTEMS OPERATION SECTION

1.1 ENGINE MODEL VIEWS

1103



1104



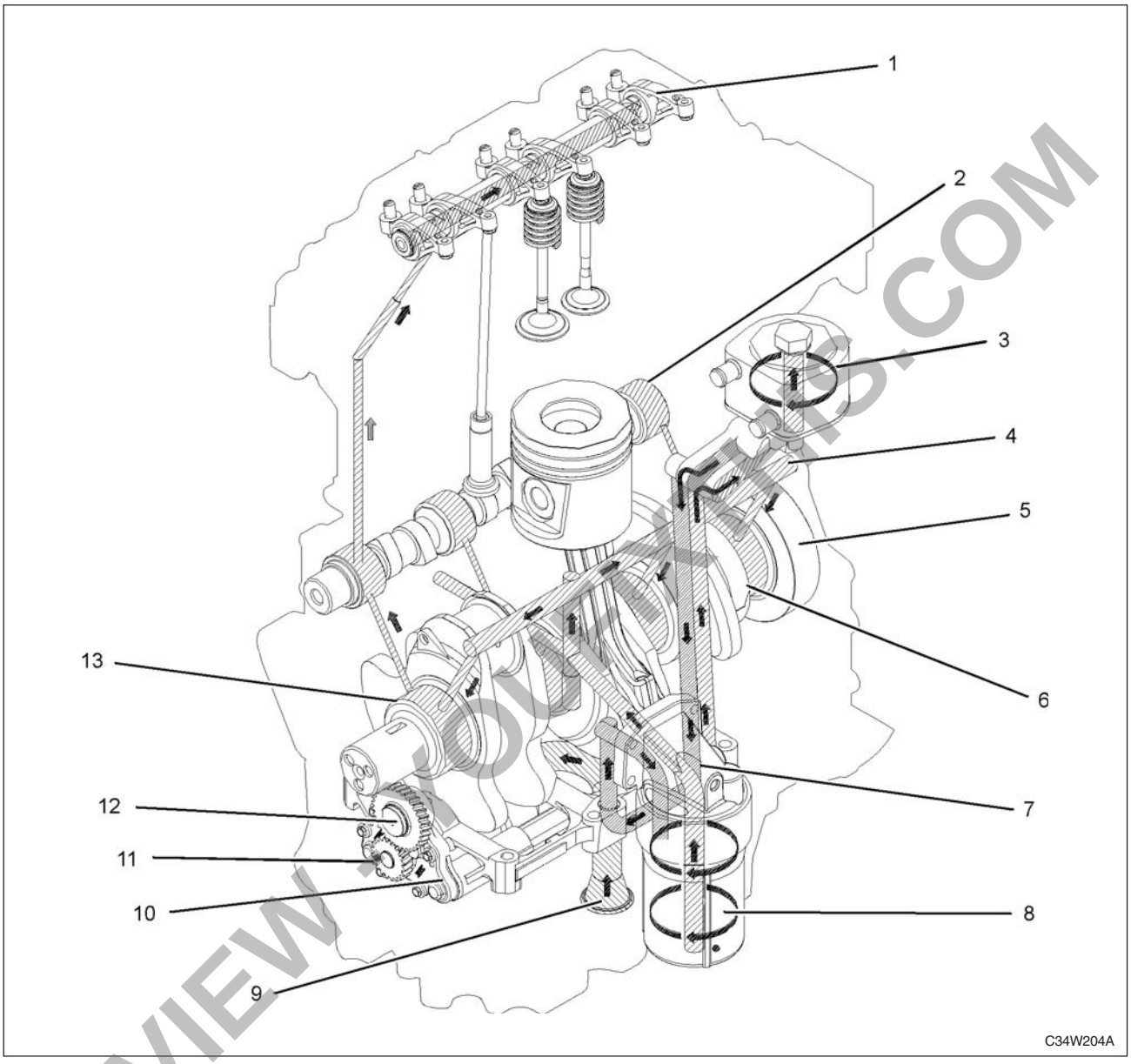
C34W201A

(1) Water Temperature Regulator Housing
(2) Valve Mechanism Cover
(3) Fuel Transfer Pump and Fuel Filter
(4) Engine Oil Cooler
(5) Fan Drive
(6) Water Pump
(7) Crankshaft Pulley
(8) Oil Pan
(9) Engine Oil Filter
(10) Engine Oil Filler Cap
(11) Exhaust Manifold
(12) Turbocharger
(13) Alternator
(14) Flywheel Housing
(15) Flywheel
(16) Starter Motor

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1.4 LABRICATION SYSTEM



(1) Rocker Shaft
(2) Camshaft
(3) Modine Oil Cooler
(4) Oil Gallery
(5) Crankshaft
(6) Connecting Rod Bearing Journals
(7) Oil Filter Head
(8) Oil Filter
(9) Pipe
(10) Oil Pump
(11) Oil Pump Gear
(12) Idler Gear
(13) Crankshaft Gear

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2. TROUBLESHOOTING

A. TROUBLESHOOTING FOR SHUTTLE SHIFT

Symptom	Possble Causes	Action
Operating noise during shuttle shifting	1. Excessive clearance in shuttle synchro assembly (SPEC: 59 ± 0.15 mm) (2.323 ± 0.006 in.)	Replace
	2. Abnormal wear of cone assembly 2	Replace
	3. Damaged chamfering section in forward gear (33 gear) and reverse gear (30 gear)	Replace
	4. Broken guide pin (ϕ 6 mm (0.236 in.): 4 EA , ϕ 5 mm (0.157 in.): 6 EA)	Replace
Gear slips out of mesh when shifting	1. Improper adjustment of external lever (ϕ 6 mm (0.236 in.): 4 EA)	Adjust
	2. Improper shift stroke (Stroke: 9 mm (0.354 in.))	Eliminate the cause and reassemble
	3. Excessive clearance in the shuttle synchro assembly (SPEC: 59 ± 0.15 mm) (2.323 ± 0.006 in.)	Replace
	4. Unstable positioning due to deformed shuttle fork	Replace
	5. Insufficient tension due to deformation of spring that holds the internal balls (6) in shuttle sleeve assembly	Replace
Hard shifting	1. Foreign material in internal spline of sleeve assembly	Remake
	2. Caught during shift due to damaged internal spline of sleeve assembly	Replace
	3. Caught due to small guide pin hole in sleeve assembly	Replace
	4. Abnormal wear of cone assembly 2	Replace
	5. Improper engagement due to damaged chamfering section in forward gear (33T) and reverse gear (30T)	Replace
	6. Inclining occurs when shifting due to deformed shuttle shift fork	Replace

B. TROUBLESHOOTING FOR MAIN SHIFT SECTION

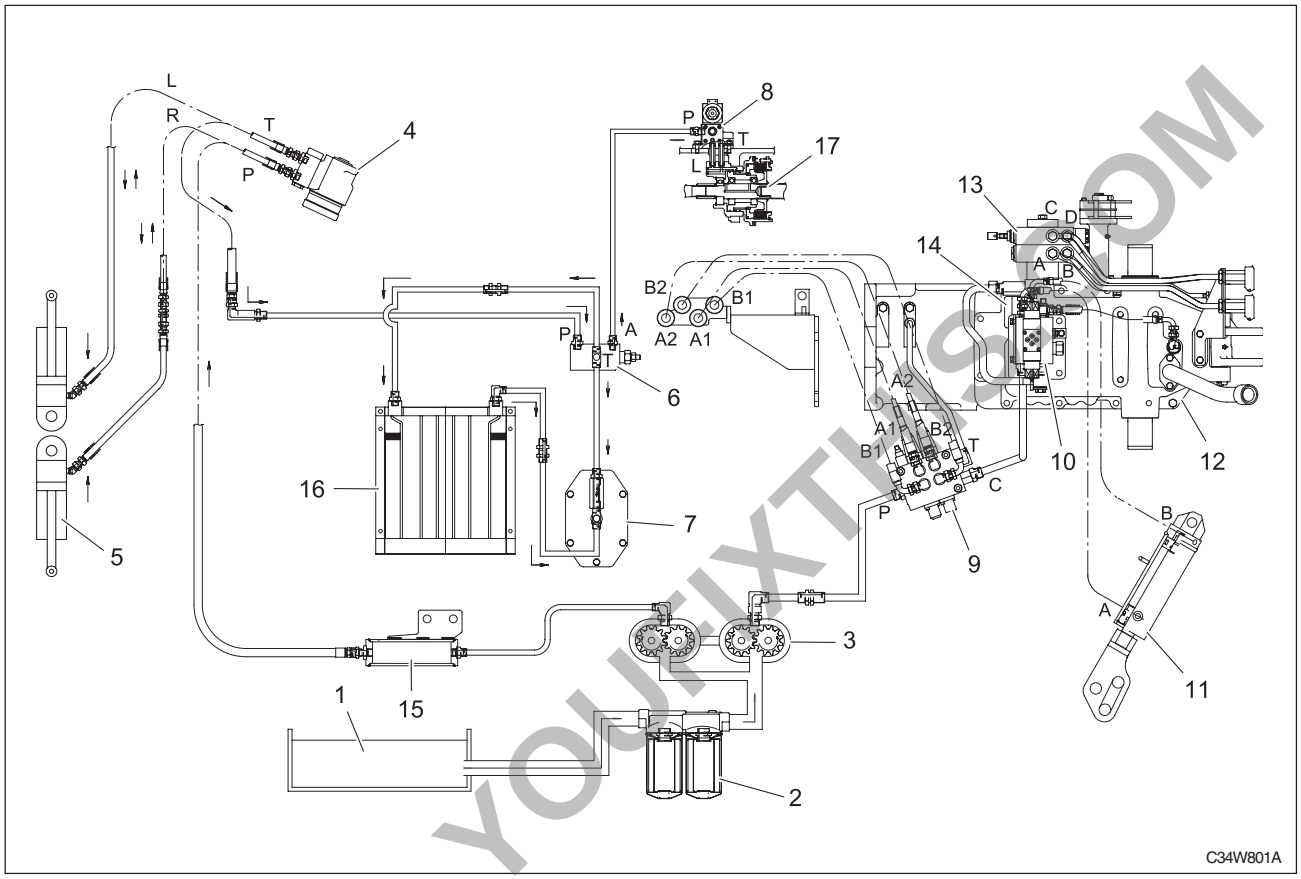
Symptom	Possible Causes	Action
Gear slips out of mesh	1. Damaged teeth in main synchro gear	Replace
	2. Insufficient stroke due to interference with external lever (Stroke: 13 mm (0.512 in.))	Repair
	3. Insufficient stroke due to the internal interference between shift arm in main shift rod and main shift cover (Stroke: 13 mm (0.512 in.)) (Moving distance when overshifting: 14 mm (0.551 in.))	Replace main shift cover
	4. Missed ball and spring when assembling fork rod of main shift cover section	Assemble
Engine stalls when driving-off the machine after gear shift	1. Engagement of two gears due to protective key missing in main shift cover	Assemble
	2. Gear seizure due to burnt	Replace
Hard shifting for main shift gear	1. Improper operation due to interference with external lever	Eliminate the cause
	2. Damaged synchro gear	Replace
	3. Key separation due to excessive overshift Stroke: 13 mm (0.512 in.) Moving distance when overshifting: 14 mm (0.551 in.)	Eliminate the cause and replace
	4. Inclining occurs when shifting due to deformed main shift fork	Replace

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1. STRUCTURE

1.1 HYDRAULIC SYSTEM DIAGRAM



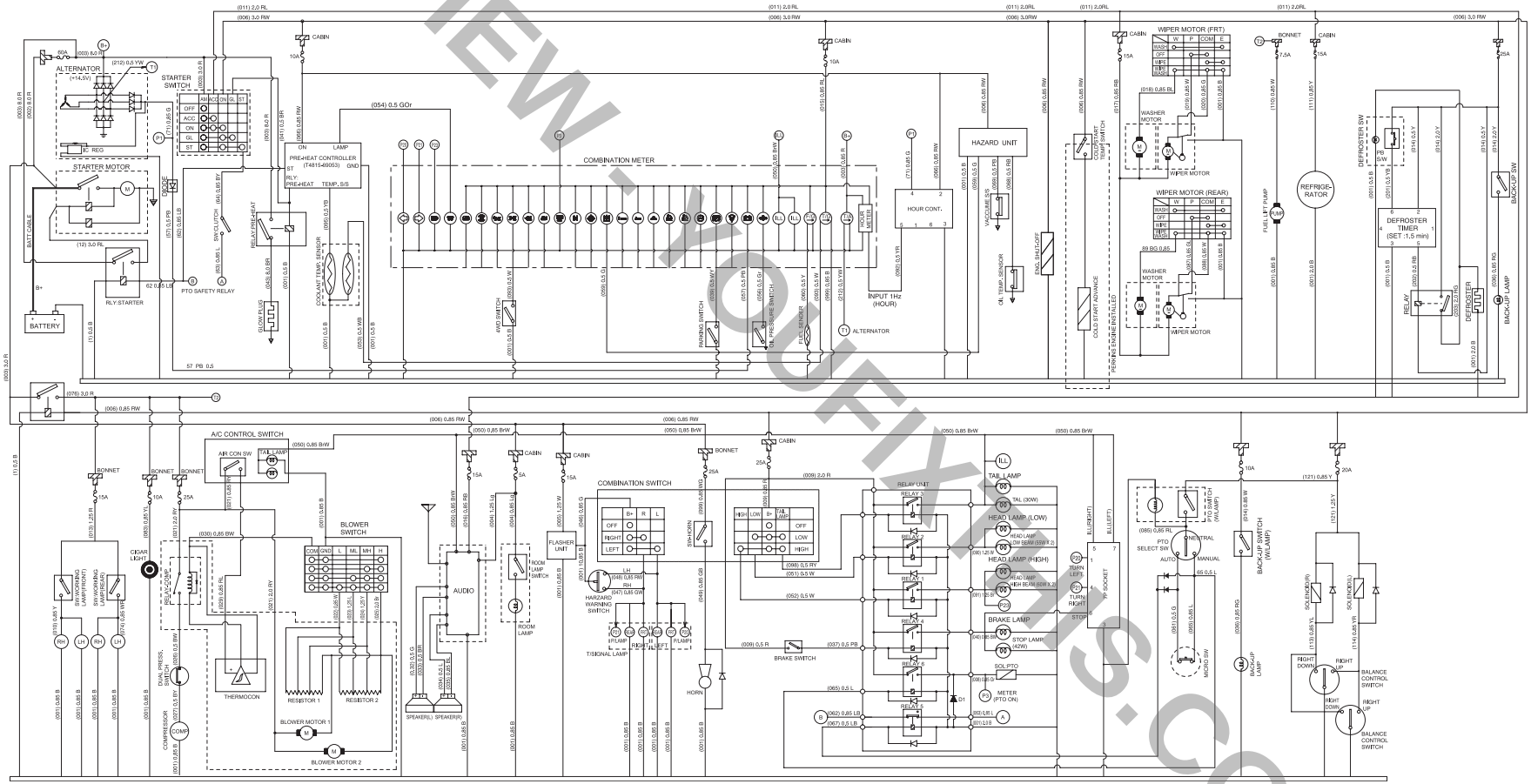
(1) Transmission Case
(2) Hydraulic Filter
(3) Gear Pump
(4) Steering Unit
(5) Steering Cylinder
(6) Primary Valve Assembly
(7) Shuttle Cover
(8) PTO Clutch Control Valve
(9) Joystick Control Valve
(10) Horizontal Control Valve
(11) Horizontal Control Cylinder
(12) Hydraulic Cylinder
(13) Remote Hydraulic Valve
(14) MLS Valve
(15) Attenuator
(16) Oil Cooler
(17) PTO Clutch Assembly

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1. WIRING DIAGRAM

1.1 GENERAL

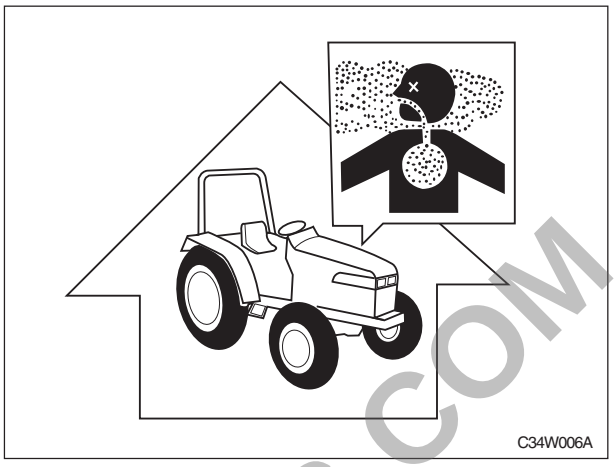


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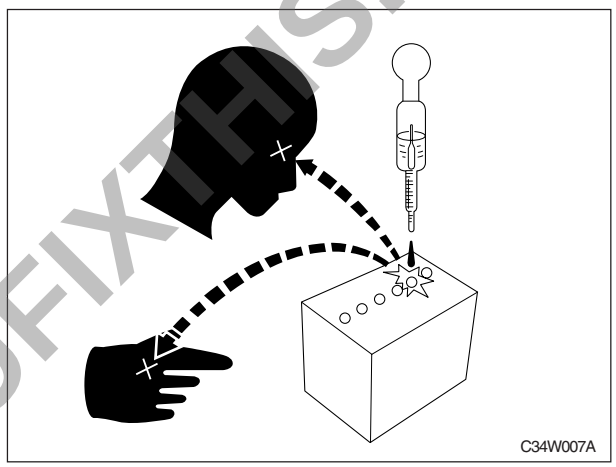
VENTILATE WORK AREA

Exhaust contains poisonous carbon monoxide, so you should never run the engine in a closed area. If the engine must be running while performing maintenance, make sure the area is well ventilated.



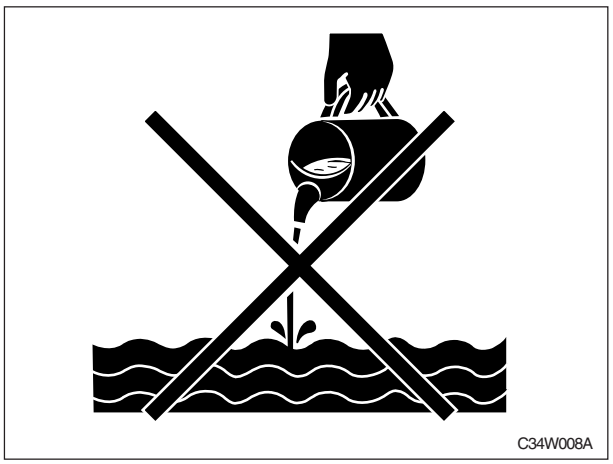
PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, clothing and cause blindness if splashed into eyes. Keep electrolyte away from eyes, hands and clothing. If you spill electrolyte on yourself, flush with water, and get medical attention immediately.



DISPOSE OF FLUIDS PROPERLY

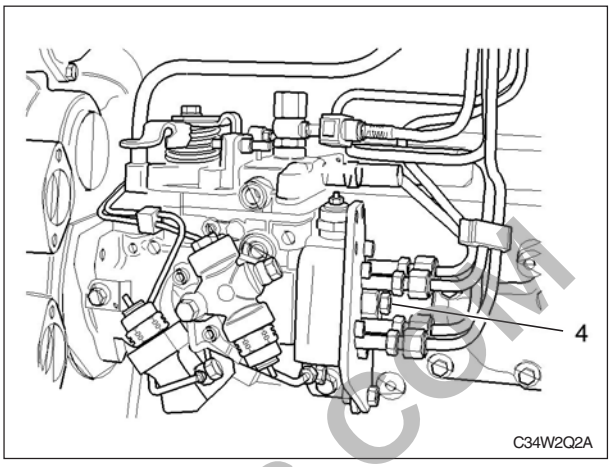
Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, electrolyte and other harmful waste. Never pour fluids into the ground, down a drain, or into a stream, pond, or lake.



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Item	Tightening torque
Tighten the plug for the fuel injection pump plunger to the following torque (4)	29 N·m 3 kgf·m 21.4 lbf·ft

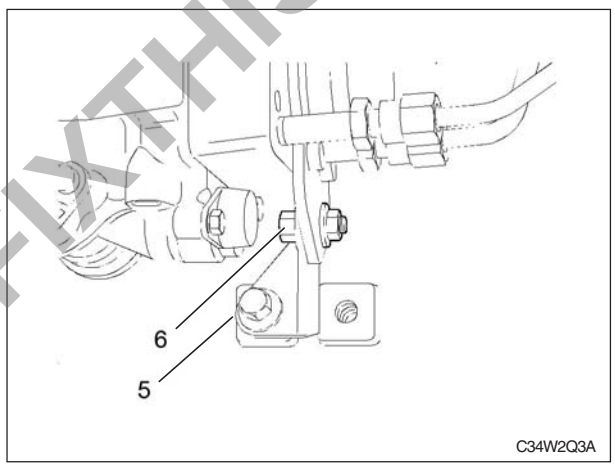


(4) Bolt

NOTE:

The support bracket must be installed after the coolant pump is installed. In order to stop the distortion of the timing case, finger tighten the bolt (5) and then tighten the nut and the bolt (6). Tighten the bolt (5).

Item	Tightening torque
Tighten the bolt to the following torque (5)	44 N·m 4.5 kgf·m 32.5 lbf·ft
Tighten the nut and the bolt to the following torque (6)	22 N·m 2.2 kgf·m 16.2 lbf·ft
Tighten the bolts that hold the fuel pump to the front housing to the following torque.	25 N·m 2.5 kgf·m 18.4 lbf·ft



(5) Bolt (6) Bolt

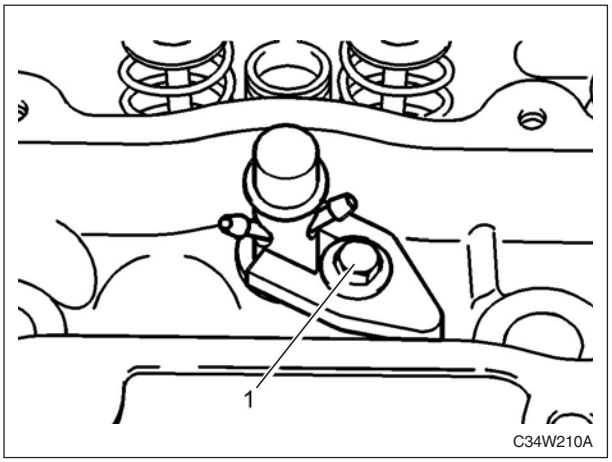
2.4 FUEL INJECTORS

Item	Tightening torque
Tighten the bolt in the clamp for the fuel injector to the following torque. (1)	35 N·m 3.6 kgf·m 25.8 lbf·ft

The fuel injector nozzle should be tested at the pressure in Table 1.

Leakage in 10 seconds	0 drops

Service Setting for the Fuel Injection Nozzle	
Color	**Injection Pressure**
Yellow	29.4 + 0.8 MPa (4264 + 116 psi)
Blue	29.4 + 0.8 MPa (4264 + 116 psi)
Red	29.4 + 0.8 MPa (4264 + 116 psi)



(1) Bolt

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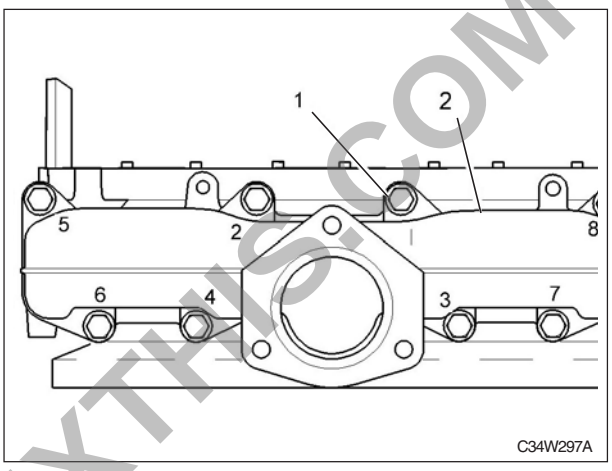
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C. REMOVAL PROCEDURE FOR THE FOUR CYLINDER ENGINE

Start By:

a. Remove the turbocharger, if equipped. Refer to this Disassembly and Assembly Manual, “Turbocharger - Remove”.

1. Remove the setscrews (1) in the reverse numerical order to the Illustration 36. This will help to prevent any distortion of the exhaust manifold (2).
2. Remove the exhaust manifold gasket from the cylinder head and remove the exhaust manifold (2). Discard the exhaust manifold gasket.



(1) Setscrews (2) Exhaust Manifold

D. INSTALLATION PROCEDURE FOR THE FOUR CYLINDER ENGINE

NOTE:

The improper installation of the exhaust manifold (2) can result in a cracked exhaust manifold. The setscrews (1) for the exhaust manifold must be tightened in the correct sequence and tightened to the correct torque.

1. Loosely install two suitable studs into the holes (5 and 8) as guides.

NOTE:

Do not use any sealant on the exhaust manifold gasket.

2. Position the new exhaust manifold gasket onto the studs in the cylinder head. Position the exhaust manifold (2) onto the studs. Install the setscrews (1) finger tight in order to secure the exhaust manifold to the cylinder head.
3. Remove the two studs and install the remaining setscrews (1). Ensure that the setscrews (1) are tightened in the sequence that is shown in Illustration 37. Tighten the setscrews evenly to a torque of 33 N·m (3.3 kgf·m, 24.3 lbf·ft).

End By:

a. Install the turbocharger, if equipped. Refer to this Disassembly and Assembly Manual, “Turbocharger - Install”.

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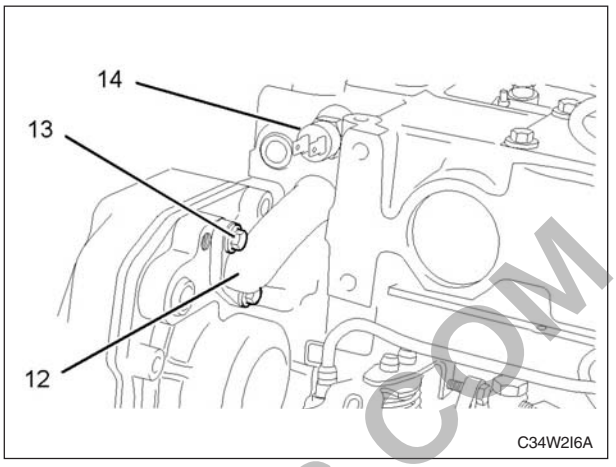
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17. Apply 21820221 POWERPART Red Rubber Grease to the new O-rings before the O-rings are installed onto the bypass tube (12). Install the new O-rings onto the bypass tube (12). Install the bypass tube (12) into the cylinder head (2). Install the setscrews (13).
18. Connect the harness assembly onto the coolant temperature sensor (14).

End By:

a. Install the glow plugs. Refer to this Disassembly and Assembly Manual, “Glow Plugs - Remove and Install”.
b. Install the rocker shaft and the pushrods. Refer to this Disassembly and Assembly Manual, “Rocker Shaft and Pushrod - Install”.
c. Install the exhaust manifold. Refer to this Disassembly and Assembly Manual, “Exhaust Manifold - Remove and Install”.
d. Install the fuel injectors. Refer to this Disassembly and Assembly Manual, “Fuel Injector - Install”.
e. Install the pipe for the boost control, if equipped.
f. Install the fuel priming pump. Refer to this Disassembly and Assembly Manual, “Fuel Priming Pump - Remove and Install”.
g. Install the hose from the integral air inlet to the air filter. Refer to the OEM information for further details.
h. Refill the engine with coolant and engine oil.

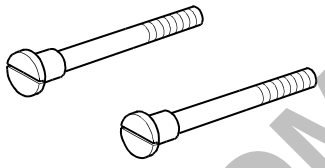
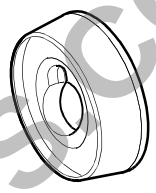
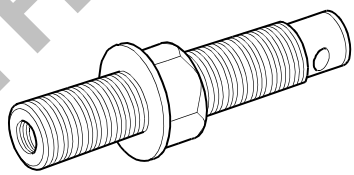
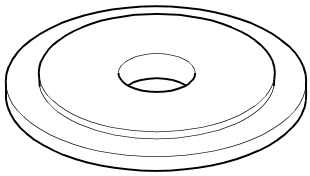
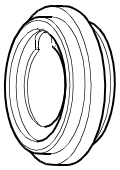
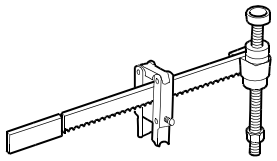
   Refer to the Operation and Maintenance Manual for the correct procedure, the quantities, the coolant specification, and the specification for the engine oil.



(12) Bypass Tube
(13) Setscrews
(14) Coolant Temperature Sensor

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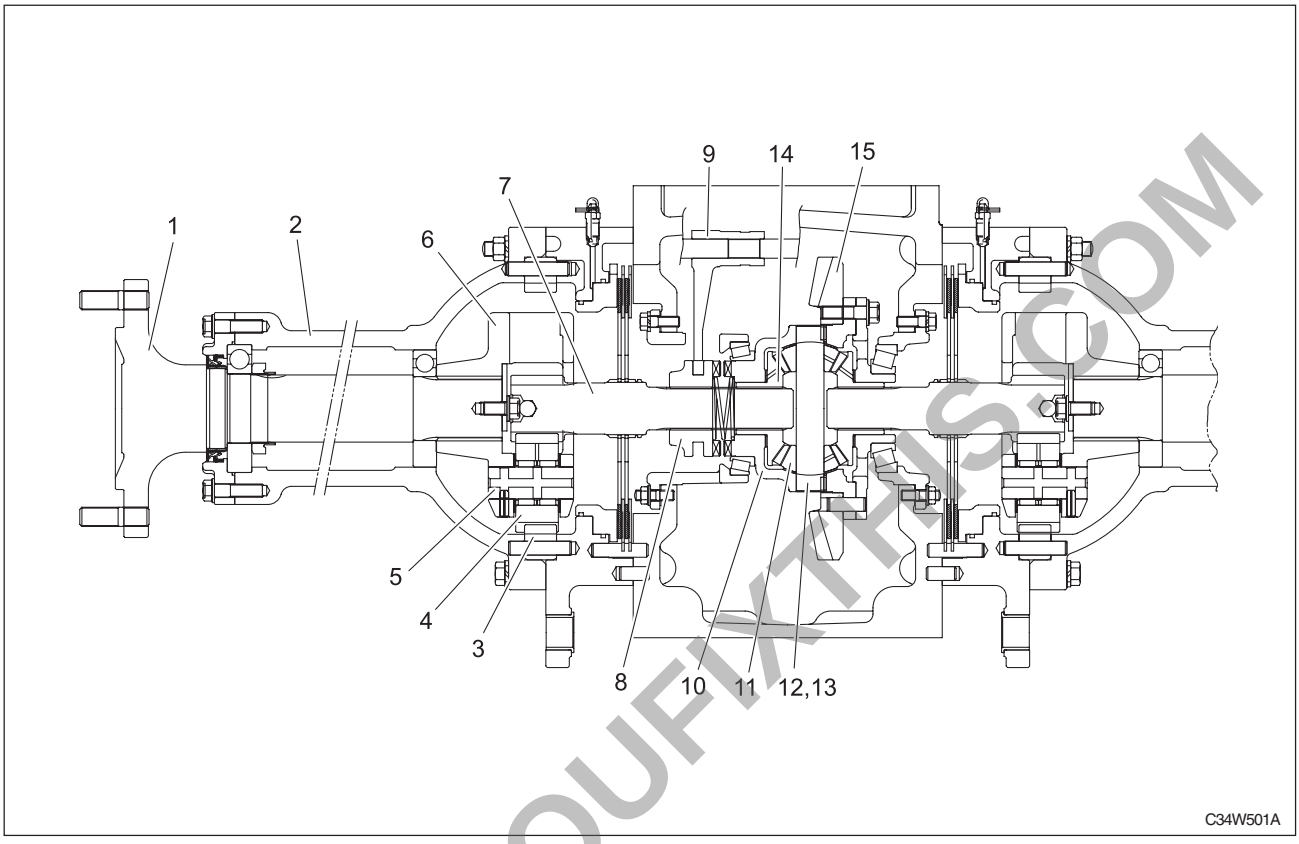
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Number	Description	Illustration
PD.155B-5	Adaptors for use with PD.155C. Part number 21825568	 623W2J3A
PD.162B	Centralising tool for timing case cover. Part number 21825571	 623W2J4A
PD.170	Replacer tool for seal of timing case cover (main tool). Part number 21825577	 623W2J5A
PD.170-1	Pressure plate for use with PD.170. Part number 21825578	 623W2J6A
PD.170-4	Adaptor for use with PD.170. Part number 21825582	 623W2J7A
PD.208	Dial gauge for use with PD.41D. Part number 21825617	 623W2J8A
PD.6118B	Valve spring compressor. Part number 21825666	 623W2J9A

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1. STRUCTURE



(1) Rear Axle
(2) Rear Axle Case
(3) Internal Gear
(4) Planetary Gear
(5) Planetary Gear Shaft
(6) Planetary Gear Support
(7) 13T Gear Shaft
(8) Differential Lock Shifter
(9) Differential Mounting Fork
(10) Differential Gear Case
(11) Differential Pinion
(12) Differential Pinion Shift 1
(13) Differential Pinion Shift 2
(14) Differential Side Gear
(15) Spiral Bevel Gear

The final reduction device reduces the final driving speed at rear axle and increases the torque.

The final reduction deviceis the linked type ring gear system. The 13 gear shaft (5) in the final driving section is connected to the planetary gear assembly (6) and engaged with the planetary gear (4) in 56 internal gear (3). The rear axle (1) is inserted into the groove in the planetary gear assembly (6). The power transmitted through the differential device rotates the planetary gear assembly.

This reduces the driving speed at a proper ratio and increases the torque to the required level.

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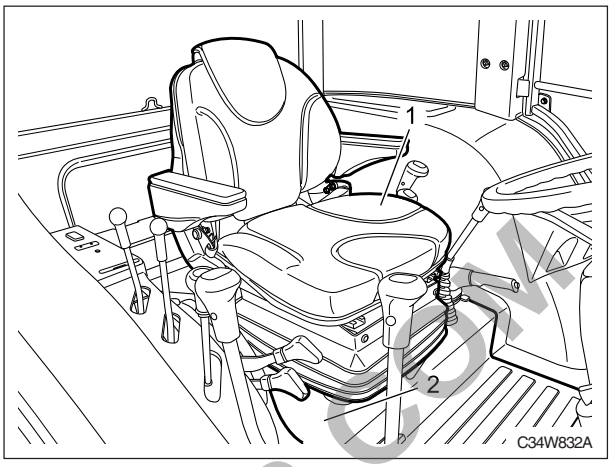
B. REMOVING

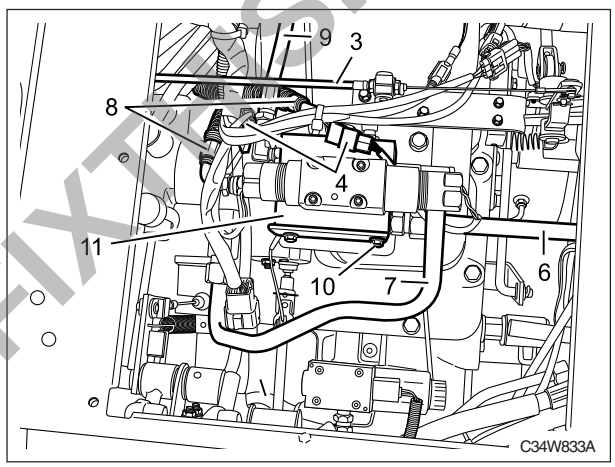
1. Remove the seat assembly (1).
2. Remove the rubber mat under the seat (2). (DK751/801/901)
3. Remove the seat support plate.
4. Remove the horizontal control sensor cable (3).
5. Disconnect the two harness connectors (4).
6. Set the lower link (5).
7. Unscrew the joint bolt and remove the hydraulic pipes (J1, J2) (6, 7).
8. Remove the hydraulic pipes (RL1, RL2) (8) and the return hose (9).
9. Unscrew the bolt (10) and remove the horizontal control valve (11).
10. Pull out the pin and remove the lift cylinder (12).

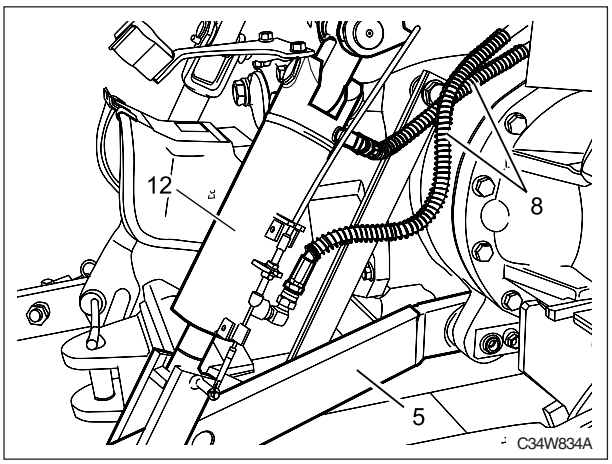
(When assembling)

Set the horizontal control after installation.

Item	Tightening torque
Joint bolt	39.2 ~ 44.1 N·m 4.0 ~ 4.5 kgf·m 28.9 ~ 32.5 lbf·ft
Hydraulic hose (RL1, RL2) and return hose	24.5 N·m 2.5 kgf·m 18.0 lbf·ft







(1) Seat Assembly
(2) Rubber Mat
(3) Horizontal Control Sensor Cable
(4) Connector
(5) Lower Link
(6) Hydraulic Pipe (J1)
(7) Hydraulic Pipe (J2)
(8) Hydraulic Hose (RL1, RL2)
(9) Return Hose
(10) Bolt
(11) Horizontal Control Valve
(12) Lift Cylinder

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