www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

TIGHTENING TORQUE SPECIFICATIONS

No.	Descriptions			Bolt Dia mm	Q'ty	Wrench Size(mm)	Torque N·m	Torque kgf·m	Torque lbf·ft
1	Engine cushion rubber mounting bolt	Front		22	2	32	740	75	540
		Rear	Engine Cushion rubber	22	2	32	740	75	540
			Cushion Rubber-Machine	16	4	24	265	27	195
2	Engine bracket mounting bolt			14	8	22	175	18	130
3	Radiator mounting bolt			16	4	24	205	21	152
4	Hydraulic oil tank mounting bolt			16	8	24	205	21	152
5	Fuel tank mounting bolt			16	8	24	205	21	152
6	ORS fittings for hydraulic hoses and piping			1−3/16−12UNF 1−7/16−12UNF		36 41	175 205	18 21	130 152
7	Pump transmission mounting bolt			12	12	19	88	9	65
8	Pump device mounting bolt			20	4	30	390	40	290
9	Control valve mounting bolt			16	4	24	205	21	152
10	Swing device mounting bolt Ring gear housing mounting bolt (hexagonal wrench)			22 16	26 24	32 14	740 205	75 21	540 152
11	Swing motor mounting bolt (hexagonal wrench)			18	16	14	295	30	217
12	Battery mounting nut			8	3	13	19.5	2	14.5
13	Cab mounting bolt	STD, LC		16	4	24	205	21	152
		H, LCH		16	6	24	205	21	152
14	Swing bearing mounting bolt to upperstructure Swing bearing mounting bolt to undercarriage			27 27	32 36	41 41	1 370 1 370	140 140	1 010 1 010
15	Travel device mounting bolt Travel motor mounting bolt Sprocket mounting bolt			22 18 22	40 8 48	32 27 32	740 390 740	75 40 75	540 290 540
16	Upper roller mounting	STD, H		18	16	27	390	40	290
		LC, LCH		18	24	27	390	40	290
17	Lower roller mounting bolt	STD, H		22	64	32	740	75	540
		LC, LCH		22	72	32	740	75	540
18	Track shoe bolt	STD, H		24	392	32	1 370	140	1 010
		LC, LCH		24	424	32	1 370	140	1 010
19	Track guard mounting bolt	STD		22	16	32	740	75	540
		LC		22	24	32	740	75	540
		H		22	16	32	740	75	540
		LCH		22	24	32	740	75	540
20	Track mounting bolt	LC, LCH		33	36	50	1 720	175	1 270
21	Coupling and clamp of low pressure piping	Coupling		8		13	10.5 to 12.5	1.05 to 1.26	7.6 to 9.1
		Clamp		1/4-28 UNF		11	5.9	0.6	4.3
22	Counterweight mounting bolt Counterweight retaining bolt			45 24	2 4	63 36	2 350 440	240 45	1 740 330
23	Front Pin-Retaining bolt			20	15	30	390	40	290
	Front Pin-Retaining Nut			20	7	30	390	40	290

NOTE: (1) Apply lubricant (e.g. white zinc B solved into spindle oil) to bolts and nuts to stabilize friction coefficient of them.
(2) Make sure bolt and nut threads are clean before installing.
(3) Apply Loctite to threads before installing and tightening swing bearing mounting bolts.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

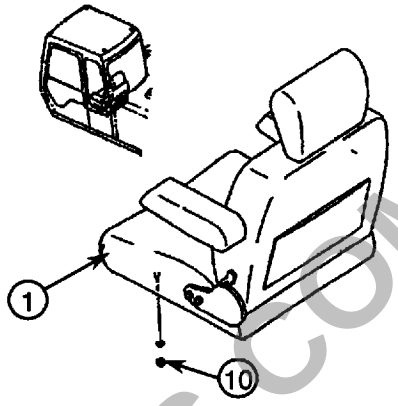
www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

REMOVE AND INSTALL CAB

Remove Cab

1. Remove nuts (10) and seat (1) .

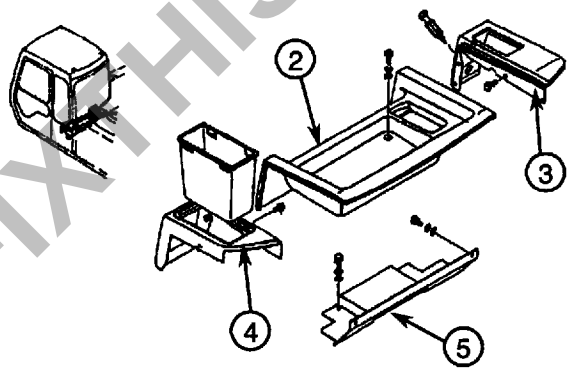
: 13 mm



W105-02-01-001

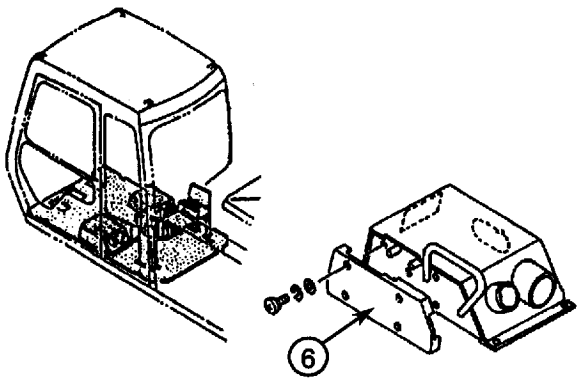
2. Remove covers (2), (3), (4) and (5).

: 13 mm



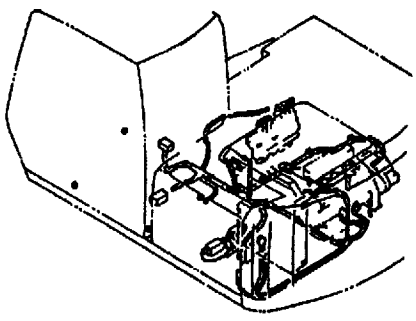
W105-02-01-002

3. Remove cover (6).



W105-02-01-003

4. Disconnect the wire harness junction box and connectors, and ground. (Wiper motor, radio antenna, cab ground and dome light.)

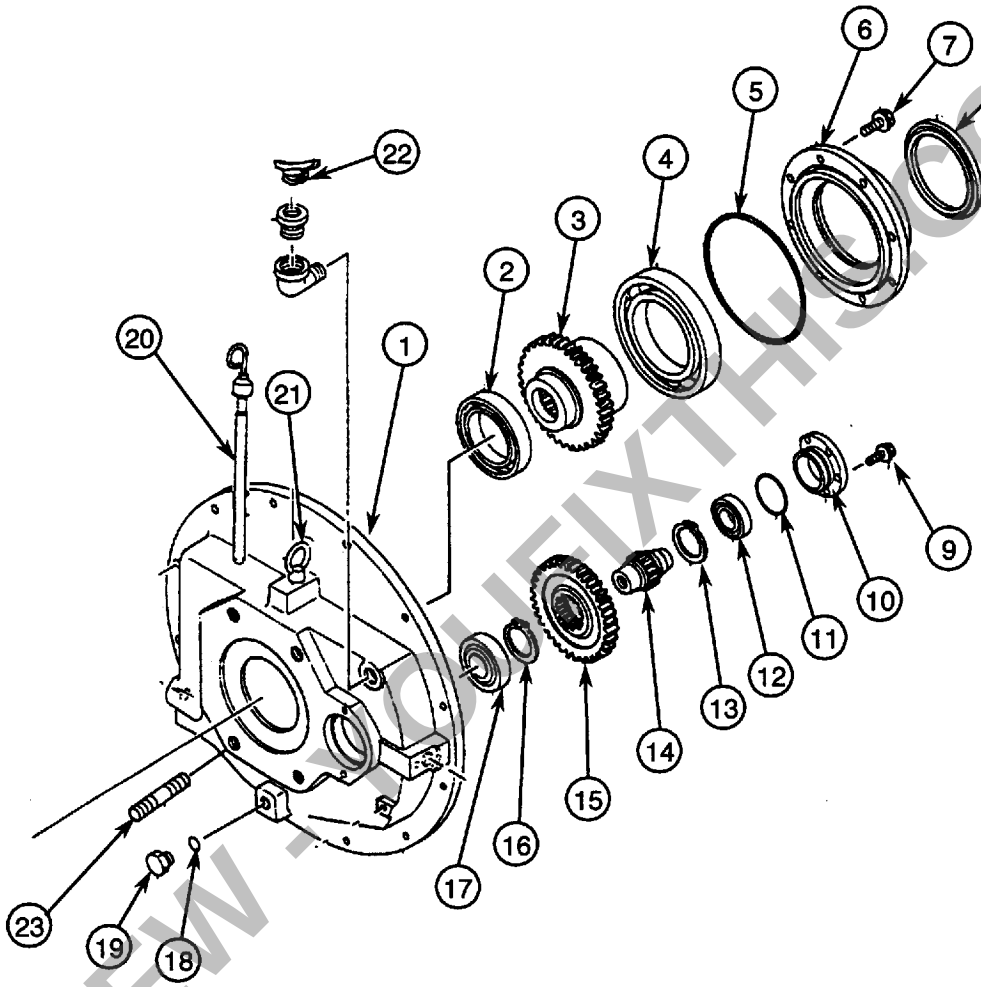


W105-02-01-004

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

DISASSEMBLE PUMP GEAR BOX



W111-02-04-008

1— Casing
2— Ball Bearing
3— Gear
4— Ball Bearing
5— O-Ring
6— Cartridge
7— Bolt
8— Oil Seal
9— Bolt
10— Cartridge
11— O-Ring
12— Roller Bearing
13— Retaining Ring
14— Sleeve
15— Gear
16— Retaining Ring
17— Ball Bearing
18— O-Ring
19— Drain Plug
20— Level Gauge
21— Eye Bolt
22— Air Breather
23— Stud Bolt

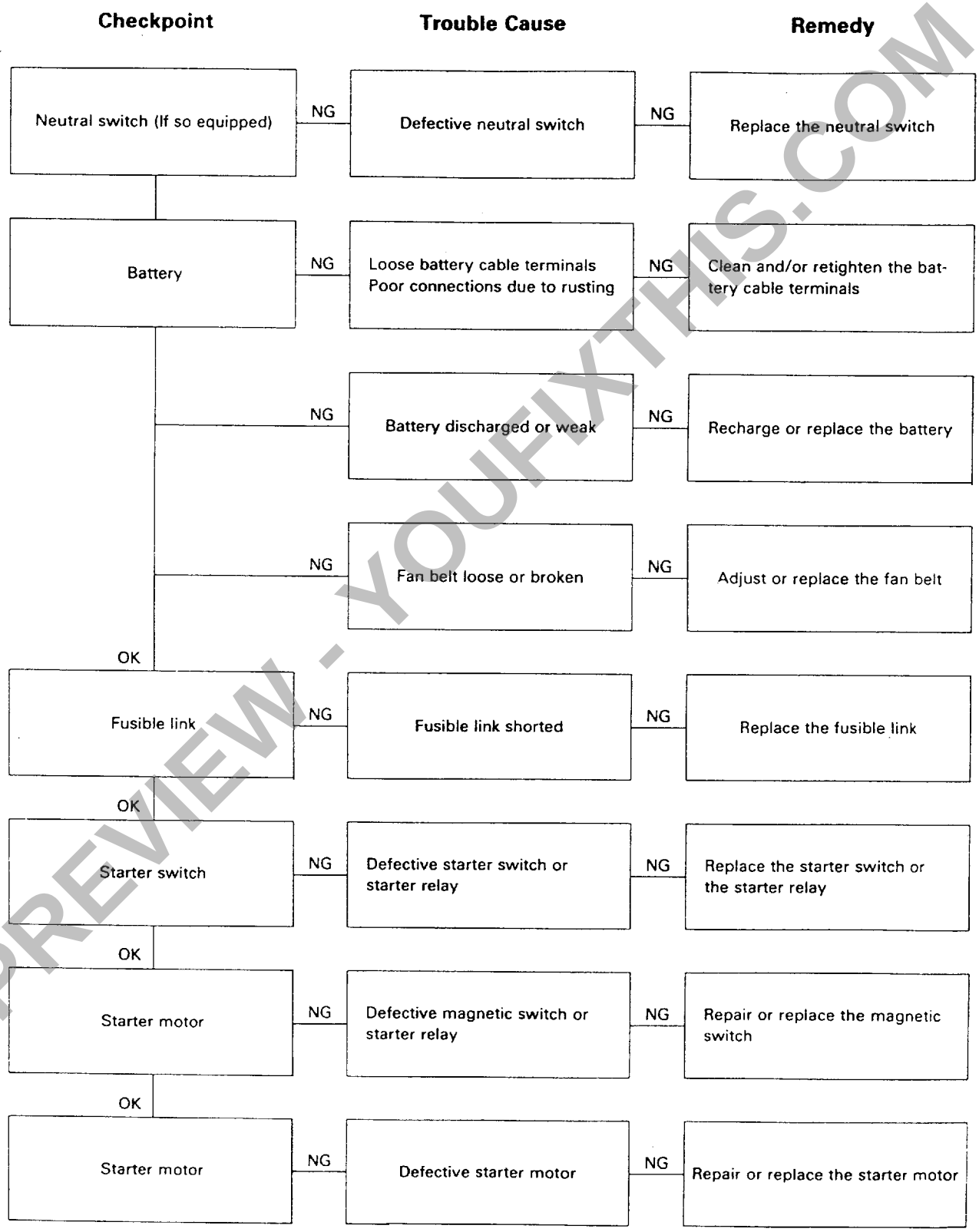
PREVIEW - YOUFIXTHIS.COM

Download full manual at: youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

HARD STARTING

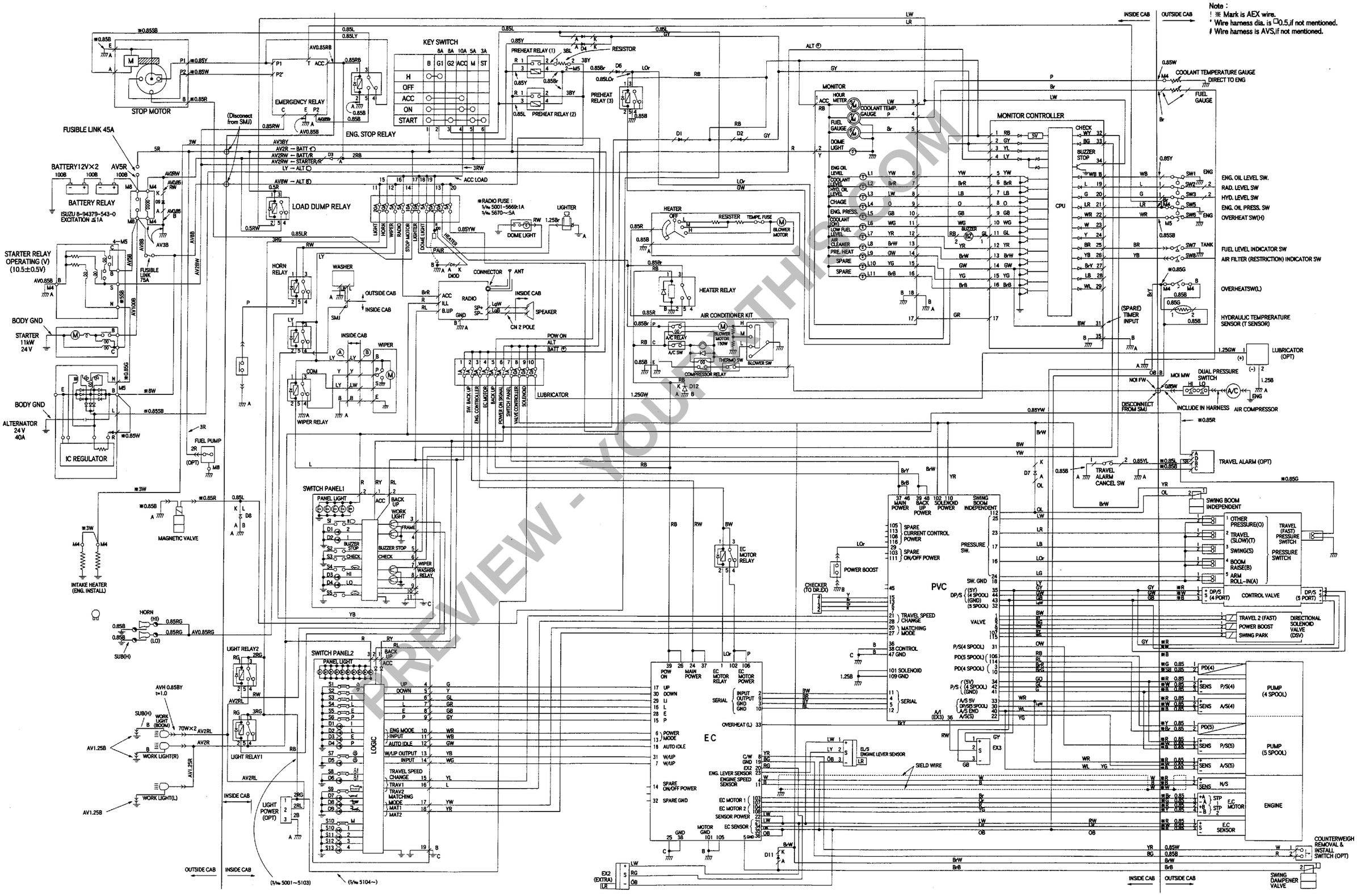
1) STARTER INOPERATIVE



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

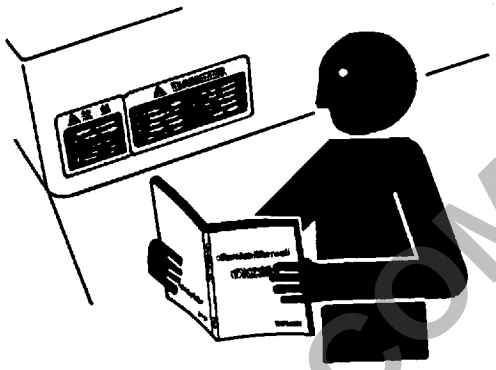
EX400-3 ELECTRICAL CIRCUIT (S/No 5001~) (9601)



www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

SAFETY

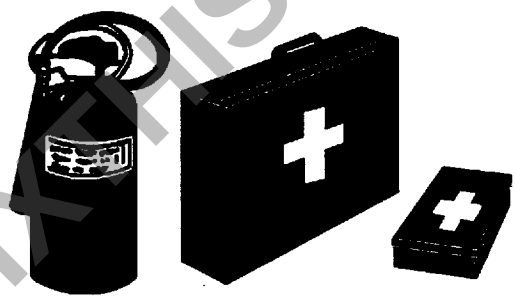
FOLLOW SAFE PROCEDURES



SA-003

- Safety First
  - This safety-alert symbol ⚠ warns you of the potential for personal injury.
    Be sure to take all recommended precautions seriously and follow safe operating procedures and practices.
  - Be sure to thoroughly read, understand and comply with the safety precautions of this manual and of the operator's manual.

PRECAUTIONS FOR SERVICE WORK



SA-020

- Prepare for Emergencies
  - Be prepared if a fire starts or if an accident occurs.



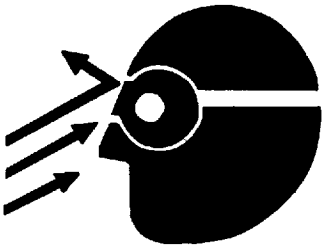
SA-023

- Wear Protective Clothing
  - Wear close fitting clothing and safe equipment appropriate for the job.
  - Do not wear a necktie, scarf, loose clothing, or necklace when you work near machine tools or moving parts. If these items get caught in the machine, severe injury could result.
  - Remove rings and other jewelry, to help avoid electrical shocks and entanglement in moving parts.



SA-024

- Protect Against Noise
  - Prolonged exposure to loud noise can cause impairment or loss of hearing.
    Wear a suitable hearing protective device, such as earmuffs or earplugs, to protect against constant or uncomfortably loud noise.



SA-022

- Protect Against Flying Debris
  - Flying pieces of metal or debris are very dangerous, and can cause serious personal injury.
  - Be sure to wear goggles or safety glasses before performing any service work in which flying pieces of metal or debris are anticipated, especially before removing/installing pins.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

USE HANDHOLDS AND STEPS

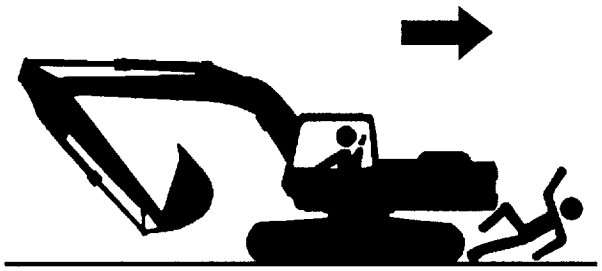
- Falling is one of the major causes of personal injury.
  - · When getting on and off the machine, always maintain a three-point contact with the steps and handrails, and face the machine.
  - · Do not use any controls as handholds.
  - · Never jump on or off the machine. Never mount or dismount a moving machine.
  - · Be careful of slippery conditions on platforms, steps, and handrails when getting on or off the machine.



SA-006

PRECAUTIONS FOR MACHINE OPERATION

- Never lubricate or service the machine while it is moving.
- If a maintenance procedure must be performed with the engine running, do not leave the machine unattended.
- Take precautions when operating the machine
  - · Be sure to start the engine only while seated in the operator's seat.
  - · Always be alert for bystanders moving into the work area. Use the horn or other signal to warn bystanders before starting the engine and before moving the machine.
  - · Machines experiencing trouble may move in unexpected ways. Be sure to operate the machine slowly while observing machine movements closely.
  - · Use a signal person when backing up, if your view is obstructed. Always keep the signal person in view.
  - · Learn the meaning of all flags, signs, and markings used on the job, and confirm who has the responsibility for signaling.
- Be sure to remain seated in the operator's seat while operating the machine.
- Keep riders off the machine. Only allow the operator on the machine.



SA-007

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

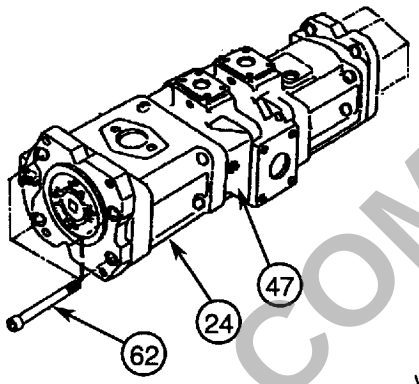
www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

8. Install valve cover assembly (47) to casing (24) and tighten four bolts (62).

: 17 mm

: 431 N·m (44 kgf·m, 318 lbf·ft)

NOTE: Make sure that rotating and sliding parts move smoothly by applying light force.



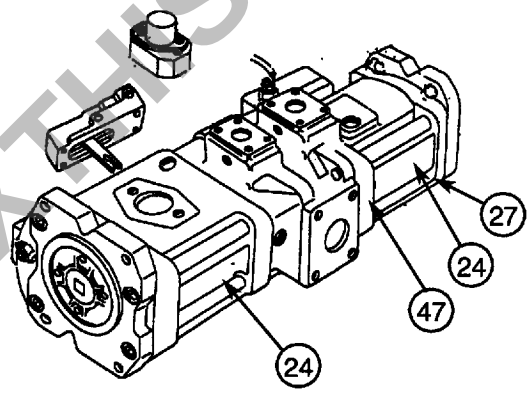
W111-02-04-063

9. Install the front pump assembly to valve cover (47), and tighten four bolts (27).

: 17 mm

: 431 N·m (44 kgf·m, 318 lbf·ft)

NOTE: Make sure that rotating parts turn smoothly by applying light force.

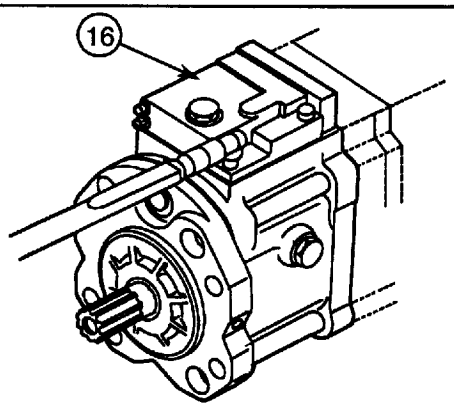


W111-02-04-011

10. Install the pin on feed back link (70) to the feed-back lever.
Install regulator (16) to casing (24), and tighten the bolts.

: 6 mm

: 29 N·m (3 kgf·m, 22 lbf·ft)

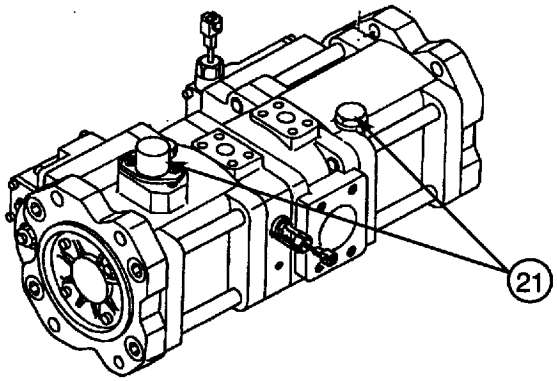


W111-02-04-029

11. Fill casing (24) with hydraulic oil to proper level and tighten plug (21).

: 36 mm

: 147 N·m (15 kgf·m, 108 lbf·ft)



W111-02-04-010

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

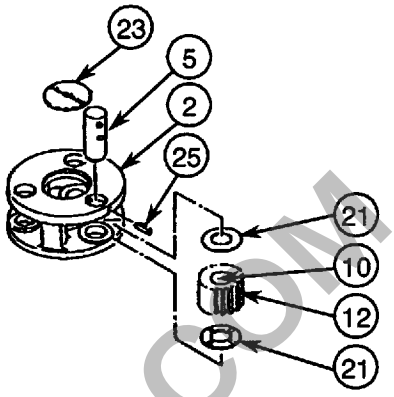
Assemble 2nd stage carrier

6. Install bushing (10) into 2nd stage planetary gear (12).

7. Install thrust plate (23) into 2nd stage carrier (2).

NOTE: Be sure to face the oil groove side upwards.

8. Install 2nd stage planetary gear (12) and thrust plates (21) to 2nd stage carrier (2).



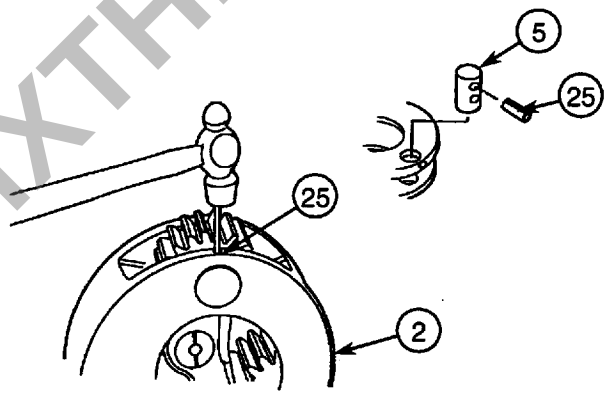
W111-02-06-017

IMPORTANT: Set thrust plates (21) with their oil groove side positioned towards the gear.

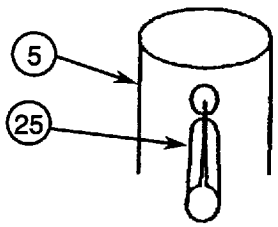
9. Align the pin hole and the carrier hole.
Drive pin (5) into 2nd stage carrier (2).

10. With spring pin (25) slit facing upwards, use a hammer to tap spring pin (25) into 2nd stage carrier (2).

IMPORTANT: If spring pin (25) slit is not facing upward, damage may occur during operation.



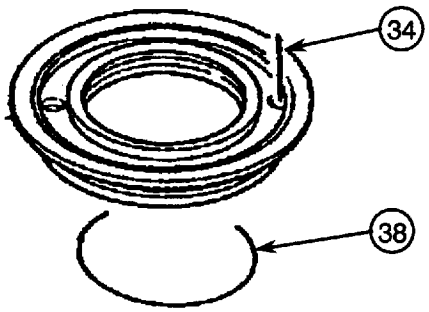
W111-02-06-018



W111-02-06-072

11. Install sleeve (34) and O-ring (38).

NOTE: Apply grease to O-ring (38).



W111-02-06-019

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

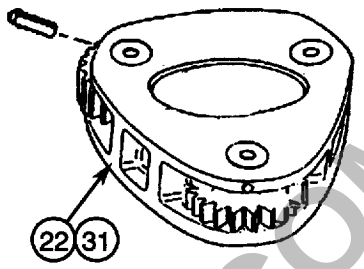
Item	Part Name	Q'ty	Wrench Size (mm)	Torque Specifications			Remark
				N·m	kgf·m	lbf·ft	
1	Body	1					
2	Spool	4					
3	Plunger	3					
4	Guide	1					
5	Nipple	2	: 22	39	4	29	
6	Steel Ball	1					
7	Spring	4					
8	Spring	4					
9	O-ring	1					
10	O-ring	13					
11	O-ring	4					
12	Plug	9	: 5	14.5	1.5	10.8	
13	Plug	7					
15	Nipple	2	: 22	39	4	29	
16	Name-plate	1					
17	Screw	2					
18	Steel Ball	4					
19	Spring	4					
20	Plug	4	: 6	19.5	2	14.5	
21	Plunger	1					
*	Pressure Switch	2	: 14	19.5	2	14.5	

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

22. Remove 1st stage carrier (31) assembly and 2nd stage carrier (22) assembly.



W111-03-02-026

PREVIEW - YOUFIXTHIS.COM

Download full manual at: youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

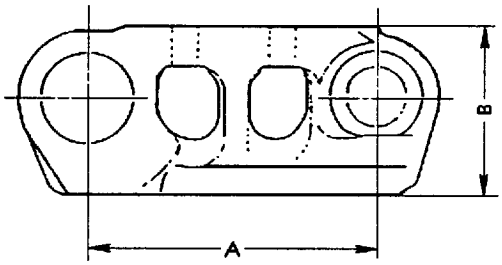
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

MAINTENANCE STANDARD

Track Link

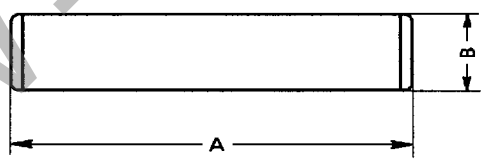


W105-03-07-019

Unit: mm (in)

	Track Link B (Right, Left), Master Link		
	Standard	Allowable Limit	Remedy
A	215.9 (8.50)	222 (8.74)	Buildup weld and finishing or Replace
B	129 (5.08)	122 (4.80)	

Link Pin



W105-03-07-020

Unit: mm (in)

	Standard	Allowable Limit	Remedy
A	254 (10.0)	–	Replace
B	47.57 (1.87)	44.57 (1.76)	

NOTE: 1 mm= 0.03937 in

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

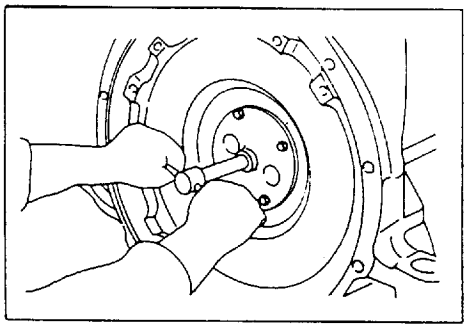
SPECIAL TOOL / Special Tool List

ST-NUMBER	TITLE	Q´ty	APLICABLE
MESSURE FLOWRATE			
ST-6299	Flow meter	1	
ST-6144	Pipe J	1	Main Pump side
ST-6145	Test hose 25-3000	1	IN
ST-6146	Nipple	1	IN
ST-6000	Nipple N-00	1	OUT
ST-6330	Joint	1	OUT
ST-6320	Test hose 25-3000	1	OUT
ST-6118	Flange F-18	2	
	Split flange	2	4085560
	Socket bolt	4	M341245

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей



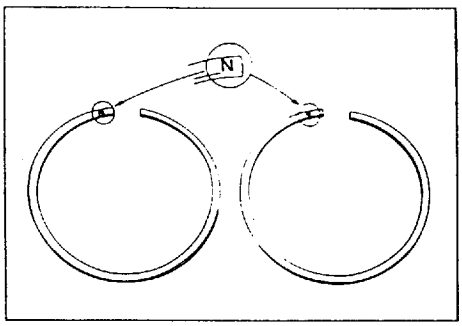
Use the flywheel remover to remove the fly wheel.

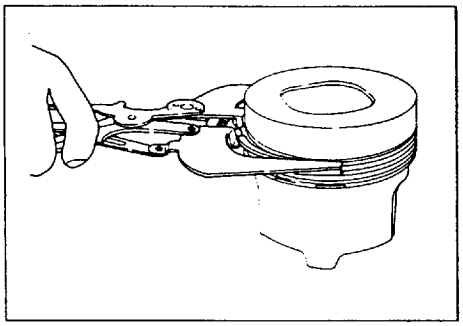
Fly wheel remover : 1-85230-006-0

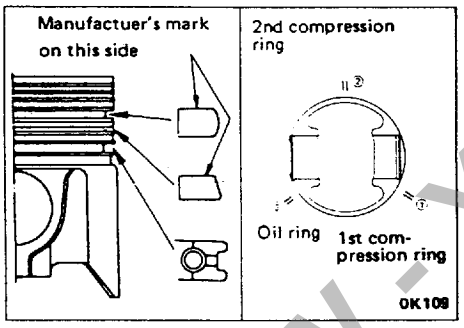
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей







5. Piston Ring

1) Use a piston ring installer to install the three piston rings.

   Piston Ring Installer : 1-8522-1025-0

   Install the piston rings in the following order.

   (1) Oil ring
   (2) 2nd compression ring
   (3) 1st compression ring

   The marked side of the two compression rings must be facing up.

   As the oil ring has no any facing mark, it may face in either direction.

2) Lubricate the piston ring surfaces with engine oil.

3) Check that the piston rings rotate smoothly in the piston ring grooves.

6. Connecting Rod Bearing

1) Install the connecting rod bearings to the connecting rod large-end and the connecting rod cap.

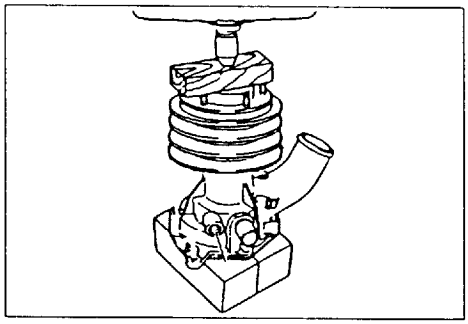
2) Install the bearing cap to the connecting rod with semi-tightening the cap bolts.

3) Lubricate the bearing with the engine oil.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей



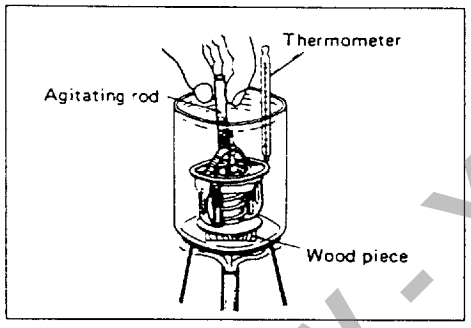
7. Pulley

Use a bench press and a bar to install the pulley.

THERMOSTAT

INSPECTION AND REPAIR

Make the necessary adjustments, repairs, and part replacements if excessive wear or damage is discovered during inspection.



Visually inspect the thermostat function referring Group 2 MAINTENANCE in page 2-7.

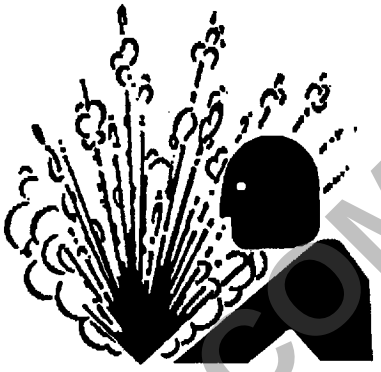
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

SERVICE COOLING SYSTEM SAFELY

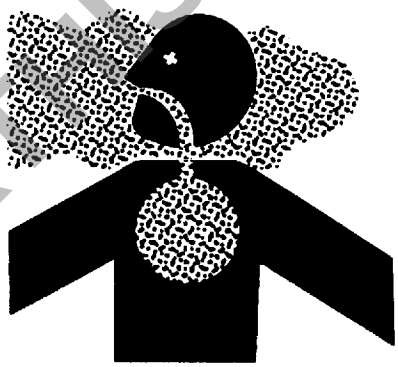
- Explosive release of fluids from the pressurized cooling system can cause serious burns.
  - · Always run the engine at slow idle for a few minutes before shutting off the engine.
  - · Only remove the radiator cap when it is cool enough to touch with the bare hands.
  - · Be sure to loosen the radiator cap to release system pressure before removing it.



SA-039

REMOVE PAINT BEFORE WELDING OR HEATING

- Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.
  Do all welding or heating work outside or in a well-ventilated area. Dispose of paint and solvent properly.
- Avoid potentially toxic fumes and dust.
- Remove paint before welding or heating.
  - · If you sand or grind paint, avoid breathing the dust. Wear an approved respirator.
  - · If you use solvent or paint stripper, remove stripper with soap and water before welding.
  - · Remove solvent or paint stripper container and other flammable material from area.
  - · Allow fumes to disperse for at least 15 minutes before welding or heating.



SA-029

AVOID HEATING NEAR PRESSURIZED FLUID LINES

- Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders.
- Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials.
- Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. Install temporary fire-resistant guards to protect hoses or other materials.



SA-030

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

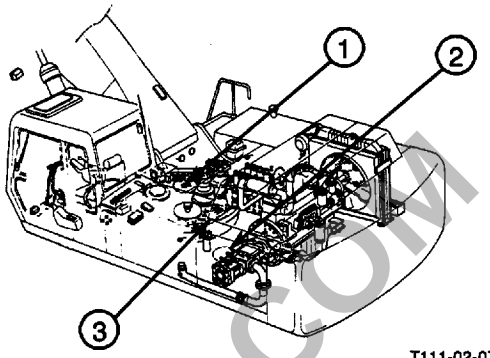
SOLENOID VALVE

Three types of solenoid valves are used on the machine: swing dampener solenoid valve (1), pump displacement solenoid valve (2), and solenoid valve assembly (3) (three valves used).

1— **Swing Dampener Solenoid Valve**

2— **Pump Displacement Solenoid Valve**

3— **Solenoid Valve Assembly (Three Valves Used)**

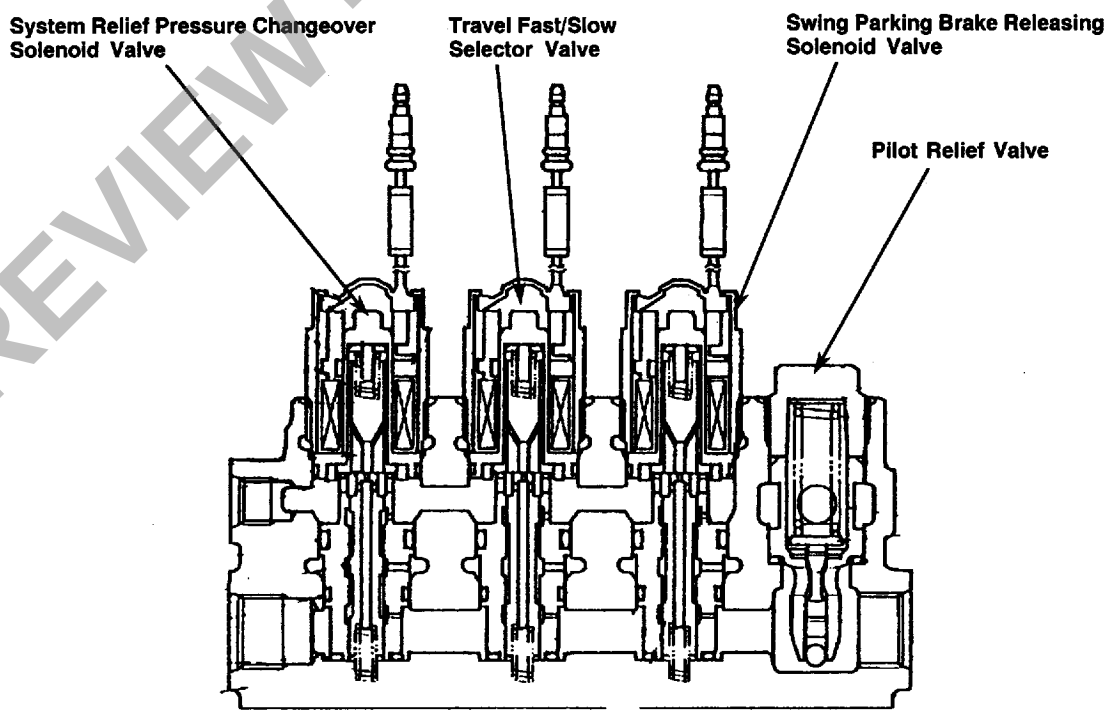


T111-02-07-001

SWING DAMPENER SOLENOID VALVE

This solenoid valve is used to activate/deactivate the swing dampening function.
When this solenoid valve is magnetized (excited), the swing dampening function is deactivated. (Refer to the SWING DEVICE section for details.)

SOLENOID VALVE ASSEMBLY (THREE VALVES USED)



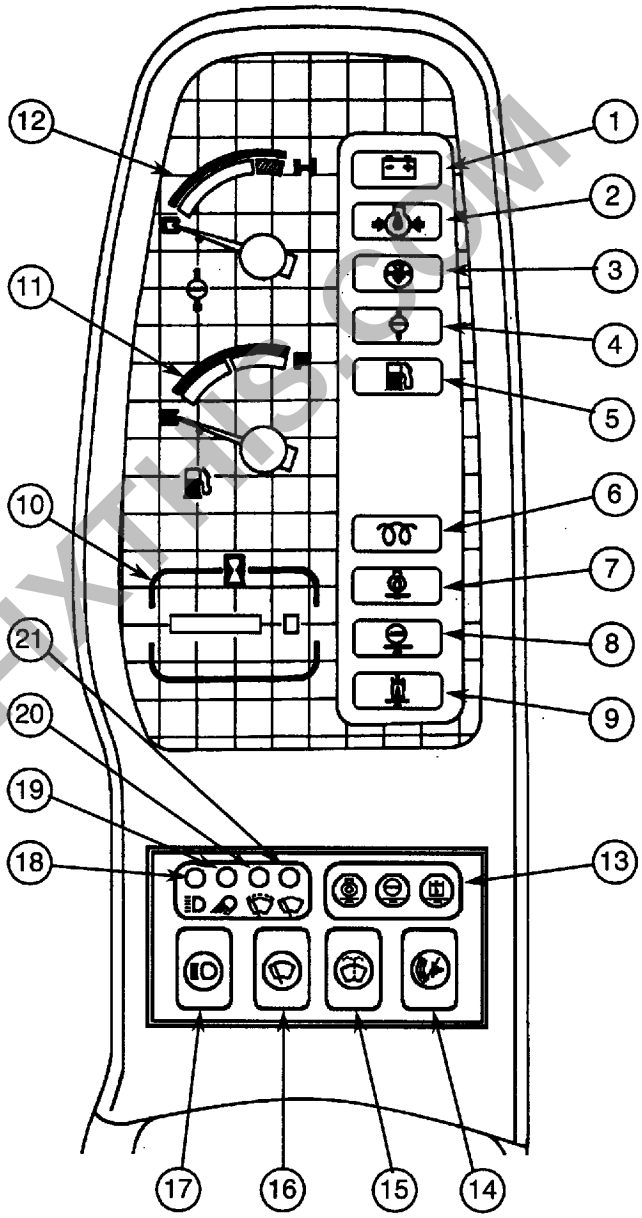
T111-02-07-002

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

www.etractor.ru Портал о спецтехнике и коммерческом транспорте.
Объявления о продаже техники и запчастей

MONITOR PANEL

(1) Alternator indicator
(2) Engine oil pressure indicator
(3) Air filter restriction indicator
(4) Overheat indicator
(5) Fuel level indicator
(6) Preheat indicator
(7) Engine oil level indicator
(8) Coolant level indicator
(9) Hydraulic oil level indicator
(10) Hour meter
(11) Fuel gauge
(12) Coolant temperature gauge
(13) Level check switch
(14) Buzzer stop switch
(15) Washer switch
(16) Wiper switch
(17) Work light switch
(18) Work light indicator (Base)
(19) Work light indicator (Boom)
(20) Intermittent wiper indicator
(21) Wiper indicator



M104-01-017

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru Все для ремонта техники KOMATSU, CATERPILLAR, VOLVO, CUMMINS.
Запчасти, оборудование, документация для ремонта

Pump Delivery Oil Control

The pump delivery oil is controlled by both the control lever stroke and differential oil pressure detected in front and rear of the orifice in the pump control valve.

While the control levers are in neutral:

All delivery oil flows through the orifice in the pump control valve, increasing the differential oil pressure (PZ-Pr) detected in front and rear of the orifice to the maximum (fig. 1).

Upon receiving this signal from the differential pressure sensor, the PVC sends out control signal (θ) to the pump displacement solenoid valve to reduce the pump displacement angle to the minimum (fig. 2 and 3).

When a control lever is operated:

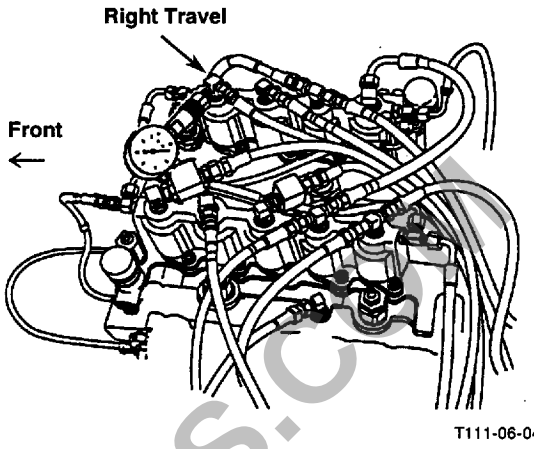
When a control lever is operated, the spool in the control valve is moved in proportion to the lever stroke, allowing pump delivery oil to flow into an actuator, reducing oil flow through the orifice, and thus reducing the differential oil pressure (PZ-Pr) detected in front and rear of the orifice.

When the spool is moved to the full stroke, all pump delivery oil flows into the actuator, reducing the differential oil pressure to the minimum. The PVC sends out signal (θ) to increases the pump displacement angle in inverse proportion to the reduction in the differential oil pressure.

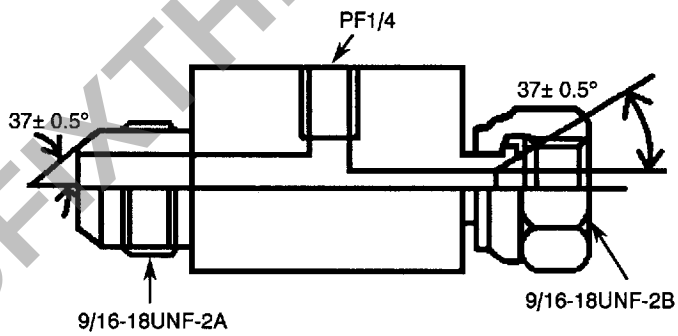
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru - parts, service manuals and parts books for KOMATSU, HITACHI, CATERPILLAR construction machinery

PILOT SECONDARY PRESSURE



T111-06-04-006



Adapter ST 6450 T111-06-04-002

Preparation

1. Stop the engine.
2. Release air from the hydraulic oil tank by removing the air breather cap.

   : 4 mm
3. Install the pressure gauge on top or bottom of the control valve of the function to be tested. (The illustration shows the right forward travel section.)

   : 22 mm

Adopter	: ST6450
Fitting	: ST6069
Pressure Gauge	: ST6315
Coupling	: ST6332
4. Start the engine and check for oil leakage from the connections.
5. Maintain the hydraulic oil temperature at 50±5 °C (122±9 °F).

Measurement

1. Select the following switch positions:
   - Power Mode Selector : P mode and I mode
   - Work Mode Selector : General Purpose
   - Auto-idle Switch : OFF
2. Slowly operate the lever to be tested full stroke.
3. Repeat step (2) three times and calculate the average values.

Evaluation

Refer to Group -05 in this section.

Remedy

If not OK, measure the pilot primary pressure. If primary pressure is OK, the pilot valve is faulty.

PREVIEW - YOUFIXTHIS.COM

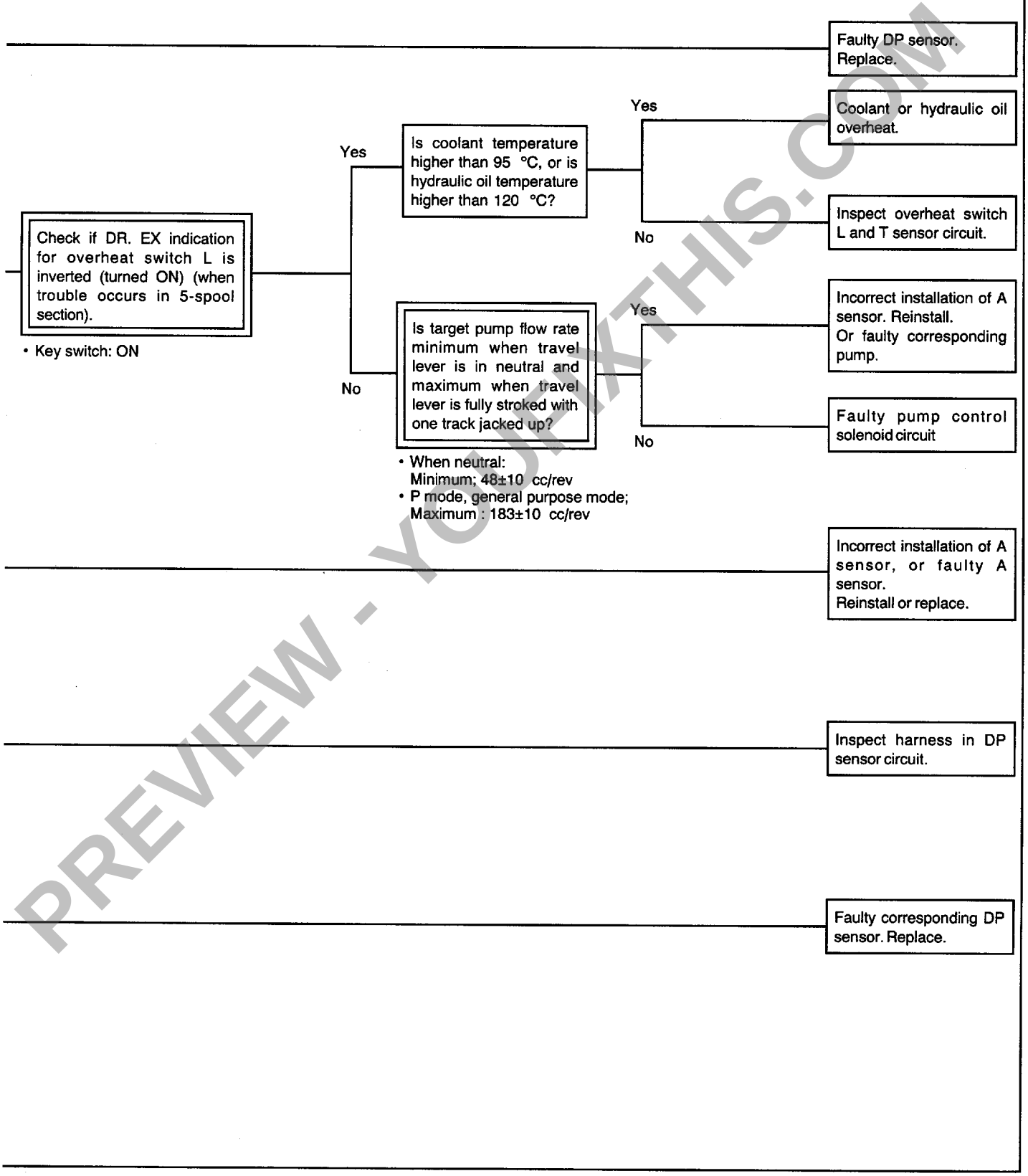
Download full manual at youfixthis.com
www.tractorparts.ru - parts, service manuals and parts books for KOMATSU, HITACHI, CATERPILLAR construction machinery

EC-RELATED FAULT CODES

Fault Code	Trouble	Corrective Action
01	Failure (type-1) of EC	1) Perform "RETRIAL A" (For problems with the controller (PVC and EC)) 2) Replace EC if Power mode selector control and /or auto-idle is abnormal
02	Failure (type-2) of EC	1) Perform "RETRIAL A" 2) Replace EC if Power mode selector control and /or auto-idle is abnormal
03	Failure (type-3) of EC	1) Perform "RETRIAL A" 2) Replace EC if Power mode selector control and /or auto-idle is abnormal
04	Failure (type-4) of EC	1) Perform "RETRIAL A" 2) Replace EC if Power mode selector control and /or over 8 fault codes are found
05	Signal from PVC is not transmitted to EC	1) Perform "RETRIAL B" (For problems with the sensors) 2) Check harness 3) Replace PVC or EC if auto-idle is abnormal
06	Failure (type-6) of EC	1) Perform "RETRIAL B" 2) Replace EC if Power mode selector control is abnormal
07 08	Short circuit of aux. input (EX2) An open in aux. input (EX2) (For optional unit)	1) Perform "RETRIAL B" 2) Check harness 3) Replace aux. input sensor (option)
09	Short circuit of EC sensor and/or harness	1) Perform "RETRIAL B" 2) Check EC sensor harness 3) Replace EC sensor
10	An open in EC sensor and/or harness	1) Perform "RETRIAL B" 2) Check EC sensor harness 3) Replace EC sensor
11 12	Short circuit of auxiliary sensor 1 An open in auxiliary sensor 1	1) Perform "RETRIAL B" 2) Check sensor harness 3) Replace auxiliary sensor
13	N sensor is abnormal	1) Perform "RETRIAL B" 2) Check N sensor harness 3) Replace N sensor
14 15	An open in T sensor or overheat sensor Short circuit of T sensor or overheat sensor	1) Perform "RETRIAL B" 2) Check sensor harness 3) Replace overheat sensor 4) Replace T sensor

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru - parts, service manuals and parts books for KOMATSU, HITACHI, CATERPILLAR construction machinery



PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com
www.tractorparts.ru - parts, service manuals and parts books for KOMATSU, HITACHI, CATERPILLAR construction machinery

PREVIEW ONLY

You're viewing 25 of 914 pages

The full manual includes:

- All 914 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Hitachi EX400-3, EX400-3C, EX400LC-3, EX400LC-3C, EX400H-3, EX450H-3C, EX400LCH-3, EX400LCH-3C Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual