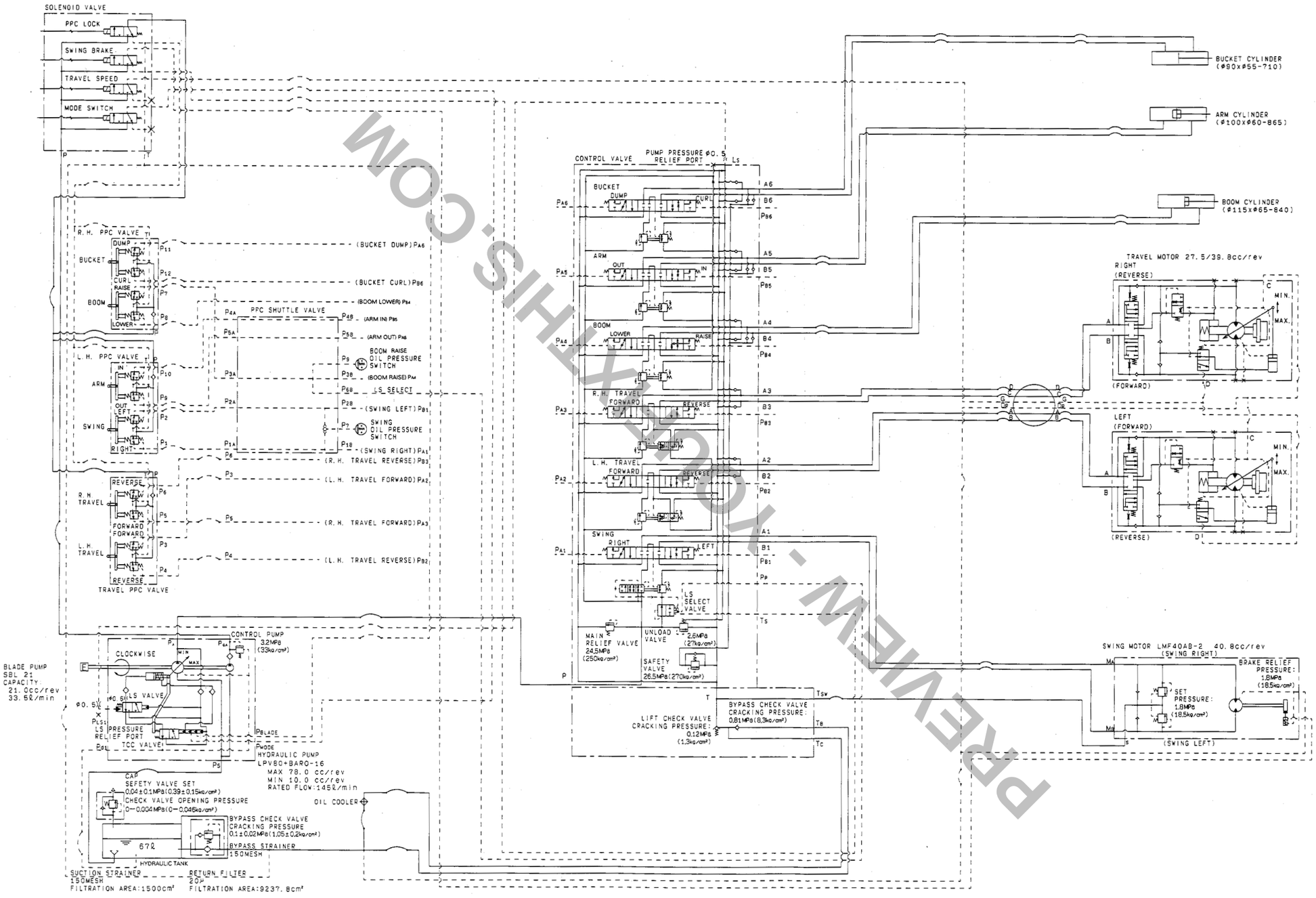
HYDRAULIC CIRCUIT DIAGRAM

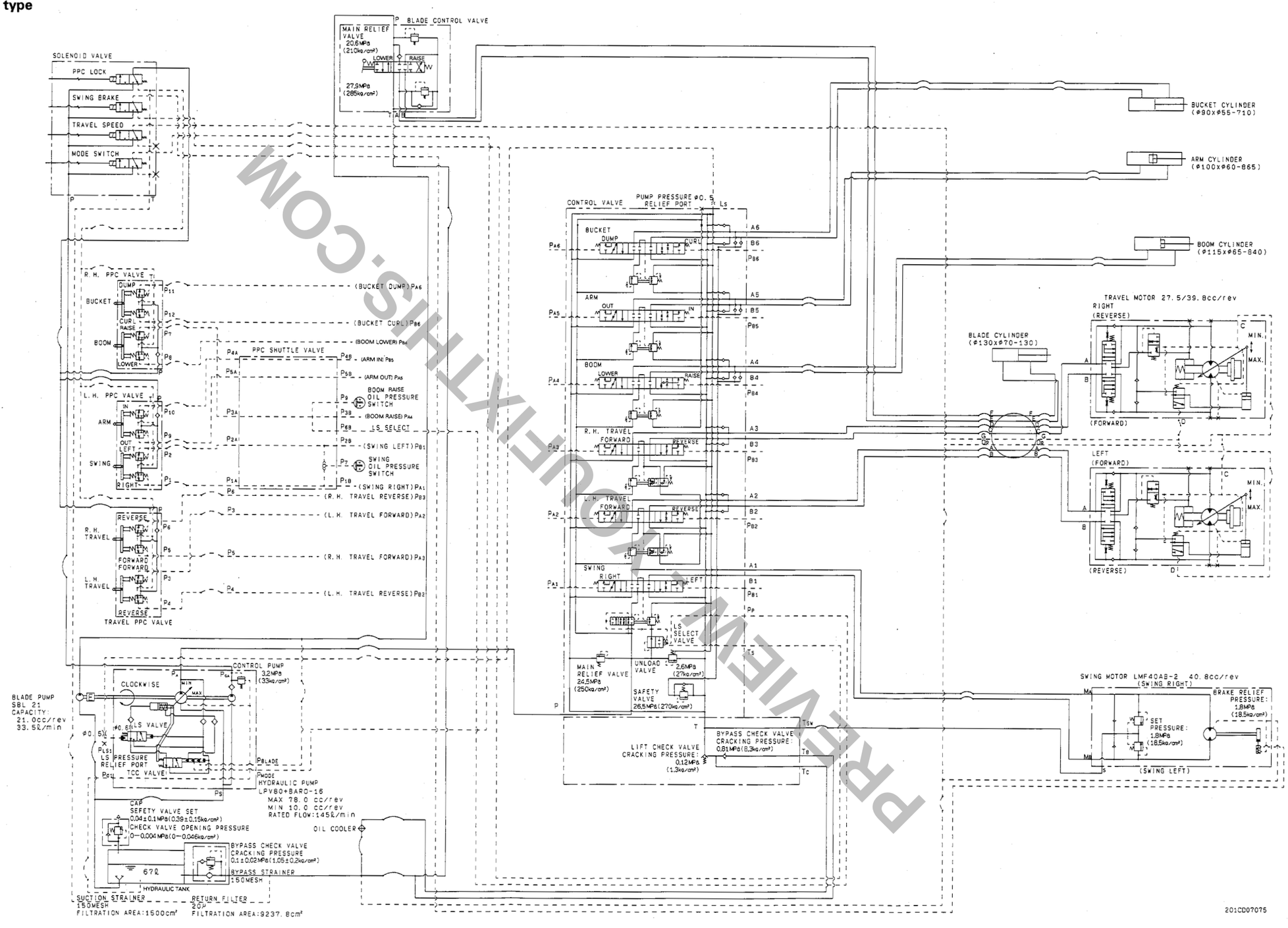


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Blade type



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STANDARD TIGHTENING TORQUE

STANDARD TIGHTENING TORQUES OF BOLTS AND NUTS

The following charts give the standard tightening torques of bolts and nuts. Exceptions are given in section of **DISASSEMBLY AND ASSEMBLY**.

1 Kgm = 9.806 Nm

Thread diameter of bolt	Width across flats	 SAD00481	 SAD00482
mm	mm	Nm	kgm
6	10	13.2±1.4	1.35±0.15
8	13	31.4±2.9	3.2±0.3
10	17	65.7±6.8	6.7±0.7
12	19	112±9.8	11.5±1.0
14	22	177±19	18.0±2.0
16	24	279±29	28.5±3
18	27	383±39	39±4
20	30	549±58	56±6
22	32	745±78	76±8
24	36	927±98	94.5±10
27	41	1320±140	135±15
30	46	1720±190	175±20
33	50	2210±240	225±25
36	55	2750±290	280±30
39	60	3280±340	335±35

★ This torque table does not apply to the bolts with which nylon packings or other nonferrous metal washers are to be used, or which require tightening to otherwise specified torque.

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<Example>

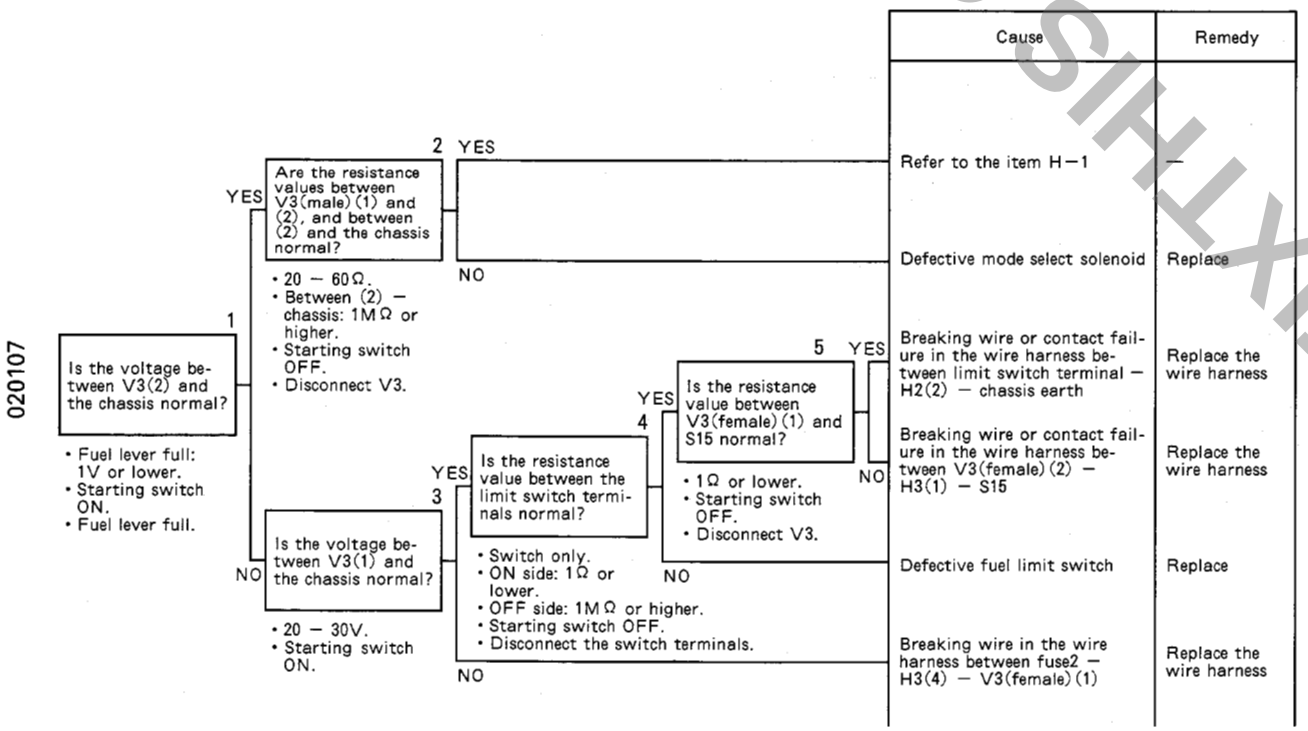
①

E-6 Power mode cannot be changed

②

a) Work equipment speed is slow when engine speed is middle and higher

③



④

★ Before carrying out this troubleshooting, check for engagement failure at relating connectors.
★ Before proceeding to the next step, make sure to restore removed connectors.
★ When the fuse 2 is not blown out.

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SPECIFICATIONS

Machine model				PC60-7	
				Standard type	Blade type
Serial number				45001 and up	45001 and up
Bucket capacity (SAE)			m^3	0.25	0.25
Operating weight			kg	6,200	6,800
Performance	Working ranges	Max. digging depth	mm	4,100	4,100
		Max. vertical wall depth		3,505	3,505
		Max. digging reach		6,360	6,360
		Max. reach at ground level		6,220	6,220
		Max. digging height		7,150	7,150
		Max. dumping height		5,015	5,015
		Max. blade lifting amount		—	410
		Max. blade lowering amount		—	270
	Max. digging force		kN{kg}	47 {4,800}	47 {4,800}
	Swing speed		rpm	12	12
	Swing max. slope angle		deg.	20	20
	Travel speed		km/h	Lo:3.0 Hi:4.5	Lo:3.0 Hi:4.5
	Gradeability		deg.	35	35
	Ground pressure (standard shoe width: 450 mm)		kPa{kg/cm^2}	29.42 {0.30}	30.40 {0.31}
Dimensions	Overall length (for transport)		mm	6,080	6,080
	Overall width			2,225	2,280
	Overall width of track			2,150	2,150
	Overall height (for transport)			2,595	2,595
	Overall height to top of cab			2,595	2,595
	Ground clearance of counterweight			750	750
	Min. ground clearance			350	350
	Tail swing radius			1,750	1,750
	Min. swing radius of work equipment			1,750	1,750
	Height of work equipment at min. swing radius			5,460	5,460
	Length of track on ground			2,130	2,130
	Track gauge			1,700	1,700
	Height of machine cab			1,750	1,750
	Blade width × height			—	2,260 × 470

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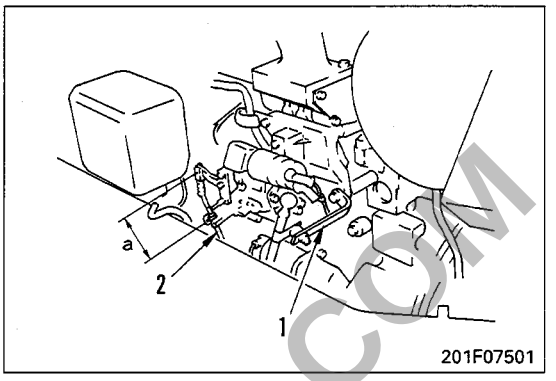
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REMOVAL OF STARTING MOTOR ASSEMBLY

⚠ Disconnect the cable from the negative (−) terminal of the battery.

1. Remove dipstick bracket (1).
2. Disconnect fuel control cable (2).
   ★ Before disconnecting, check dimension **a** in the diagram on the right.
3. Disconnect wiring (3).
4. Disconnect connector (4).
5. Remove starting motor assembly (5).



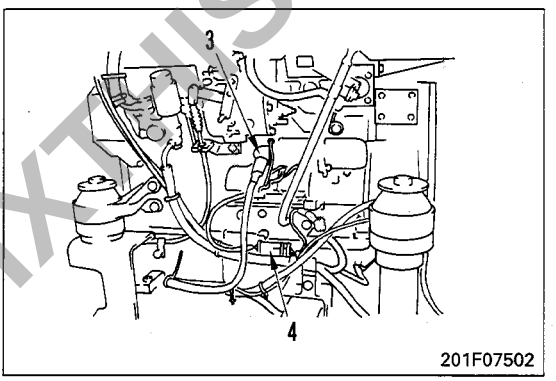
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INSTALLATION OF STARTING MOTOR ASSEMBLY

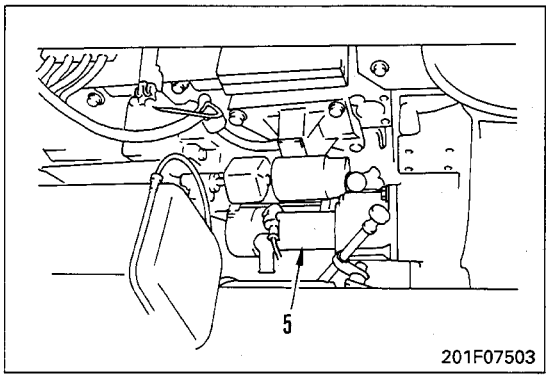
- Carry out installation in the reverse order to removal.

★ When installing, match with dimension **a** measured when removing, and check the engine low idling and high idling speeds.

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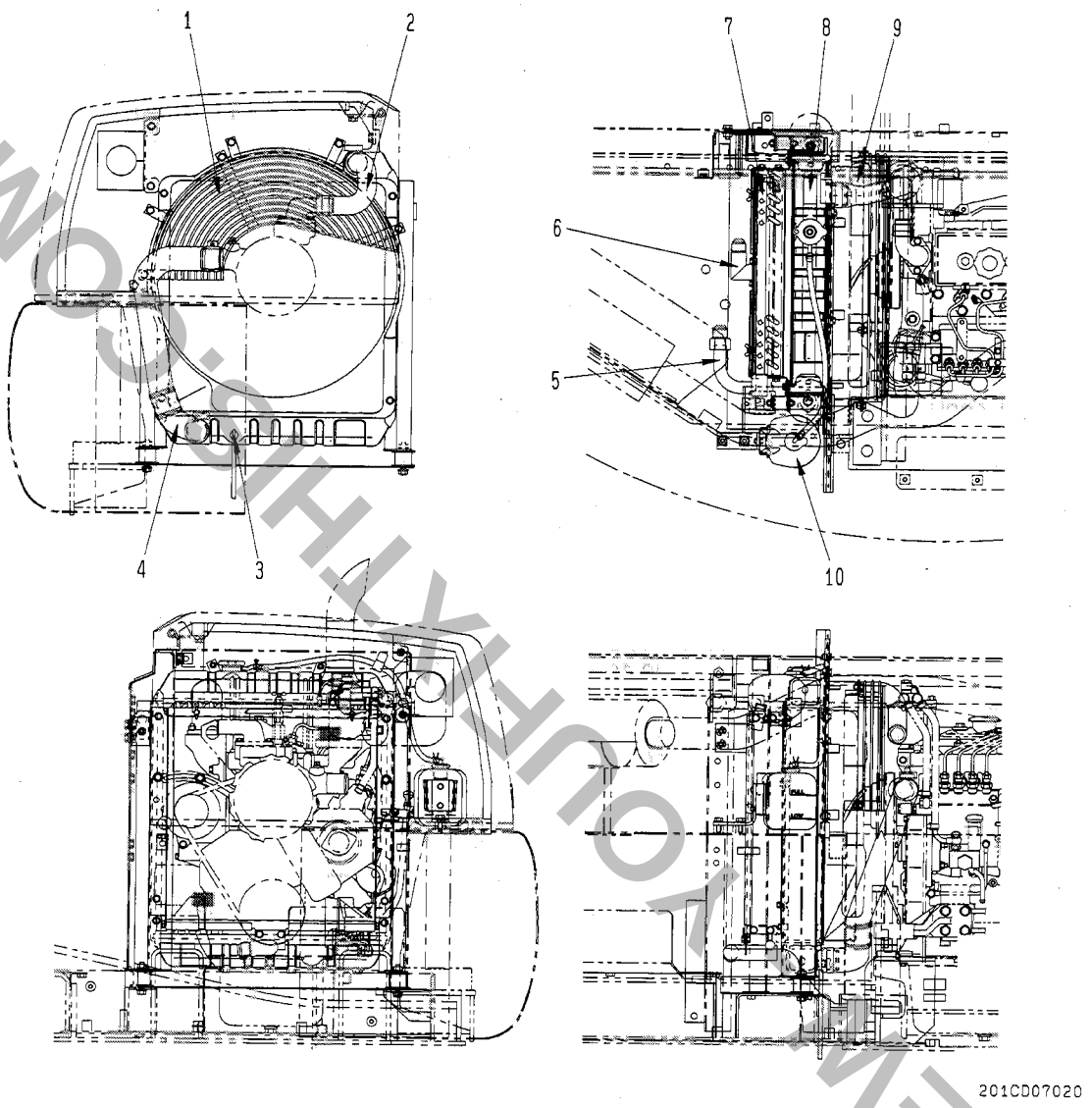


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RADIATOR AND OIL COOLER



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1. Fan guard
2. Radiator inlet hose
3. Drain valve
4. Radiator outlet hose
5. Oil cooler inlet
6. Oil cooler outlet
7. Oil cooler
8. Radiator
9. Shroud
10. Reservoir tank

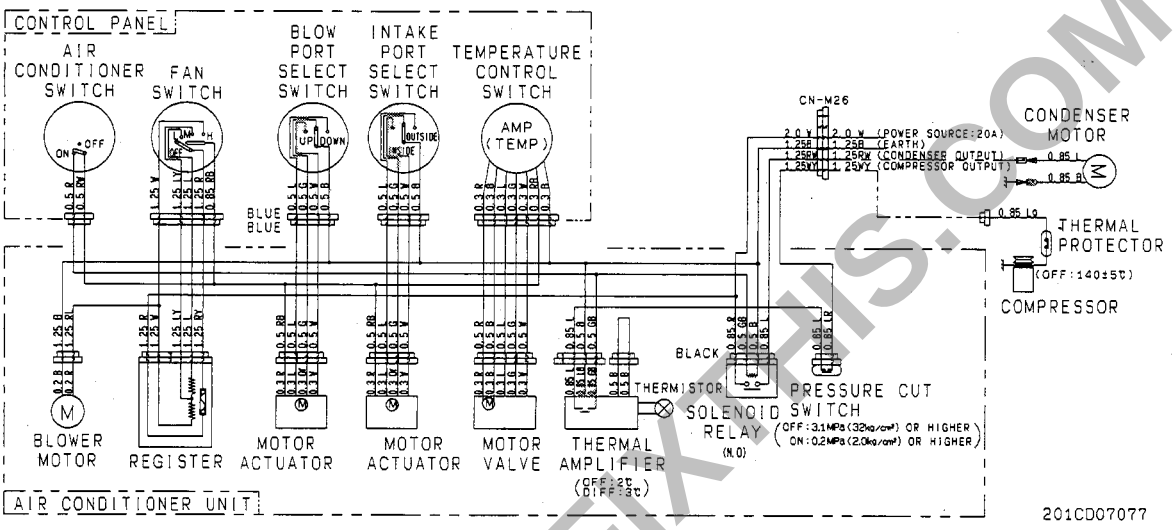
SPECIFICATIONS

Radiator
- Core type : CWX-4
- Heat radiation surface : 19.36m²
- Fin pitch : 4.0/2
- Water capacity : 6.2 ℓ

Oil cooler
- Core type : 3A-CS
- Heat radiation surface : 6.69 m²
- Fin pitch : 3.5 P
- Oil capacity : 1.9 ℓ

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ELECTRICAL CIRCUIT DIAGRAM OF AIR CONDITIONER



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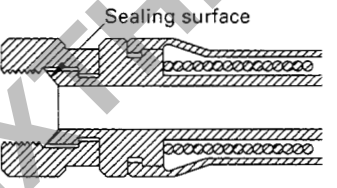
TIGHTENING TORQUE OF SPLIT FLANGE BOLTS

Use these torques for split flange bolts.

Thread diameter of bolt	Width across flats	Tightening torque	
mm	mm	Nm	kgm
10	14	65.7±6.8	6.7±0.7
12	17	112±9.8	11.5±1
16	22	279±29	28.5±3

TIGHTENING TORQUE FOR FLARED NUTS

Use these torques for flared part of nut.



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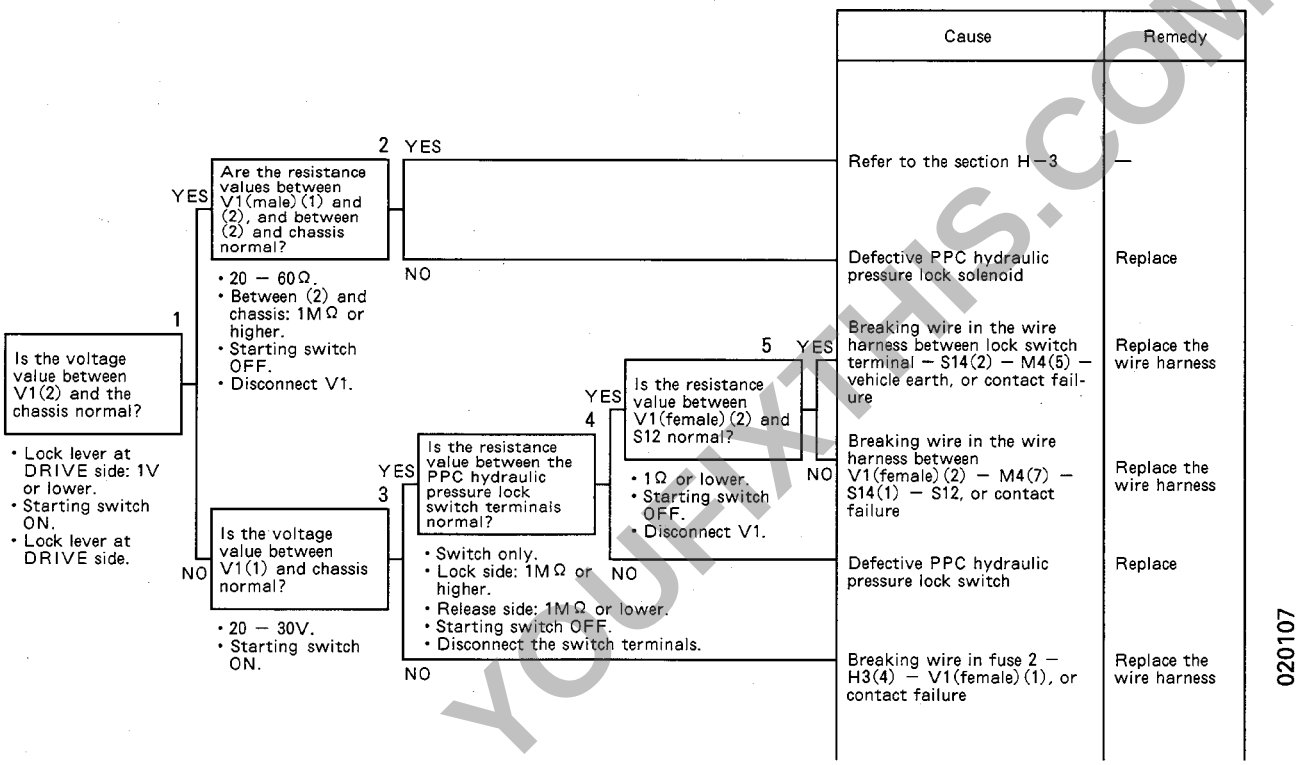
Thread diameter of nut part	Width across flats of nut part	Tightening torque	
mm	mm	Nm	kgm
14	19	24.5±4.9	2.5±0.5
18	24	49±19.6	5±2
22	27	78.5±19.6	8±2
24	32	137.3±29.4	14±3
30	36	176.5±29.4	18±3
33	41	196.1±49	20±5
36	46	245.2±49	25±5
42	55	294.2±49	30±5

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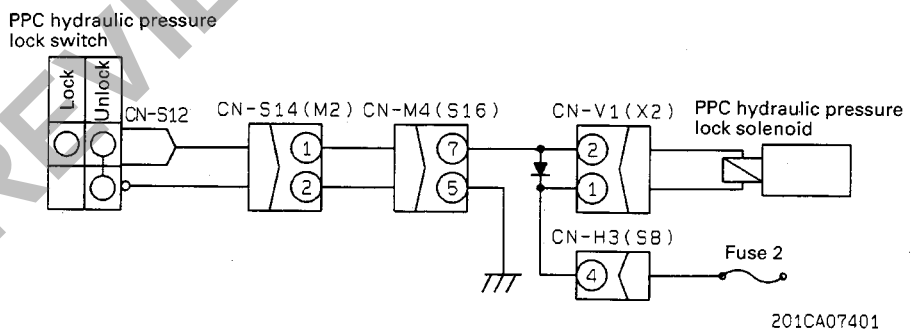
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E-1 Work equipment does not move even when the PPC hydraulic pressure lock lever is set to the DRIVE side

★ Before carrying out this troubleshooting, check for engagement failure at relating connectors.
★ Before proceeding to the next step, make sure to restore removed connectors.
★ When the fuse 2 is not blown out.



E-1 Related electric circuit diagram



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Machine model				PC60-7		
				Standard type	Blade type	
Serial number				45001 and up	45001 and up	
Engine	Model			4D95L-1	4D95L-1	4D95LE-1
	Type			4-cycle, water-cooled, in-line, vertical, direct injection		
	No. of cylinders - bore × stroke		mm	4 – 95 × 115		
	Piston displacement		ℓ{cc}	3.26 {3,260}		
	Performance	Flywheel horsepower	kW/rpm{HP/rpm}	40.5 / 1,900 {54 / 1,900}		
		Maximum torque	Nm/rpm{kgm/rpm}	226 / 1,500 {23 / 1,500}		
		High idling speed	rpm	2,100		
		Low idling speed	rpm	950	950	1,000
		Min. fuel consumption ratio	g/kWh{g/HPh}	215 {160}		
	Starting motor			24 V, 2.8 kW		
	Alternator			24 V, 15 A		
	Battery			12 V, 60 Ah × 2		
	Radiator type			CWX-4		
Undercarriage	Carrier roller			1 on each side		
	Track roller			5 on each side		
	Track shoe			Assembly-type triple grouser, 38 on each side		
Hydraulic system	Hydraulic pump	Type × no.		Variable piston type × 1 + gear type × 1 + gear type (blade type) × 1		
		Delivery	ℓ/min	Variable piston type : 145, gear type : 25.2, gear type (blade type) : 33.5		
		Set pressure	MPa{kg/cm²}	Variable piston type : 24.5 {250}, gear type : 2.9 {30}, gear type (blade type) : 20.6 {210}		
	Control valve	Type × no.		6-spool type	6-spool type + 1-spool type	
		Control method		Hydraulic assist type	Hydraulic assist type + direct control type	
	Hydraulic motor	Travel motor		Variable displacement piston type (with brake valve, parking brake) × 2		
		Swing motor		Fixed displacement piston type (with brake valve, parking brake) × 1		
	Hydraulic cylinder			Reciprocating piston		
	Hydraulic tank			Box-shaped, open		
	Hydraulic oil filter			Tank return side		
	Hydraulic oil cooler			Air cooled (3A-CS)		

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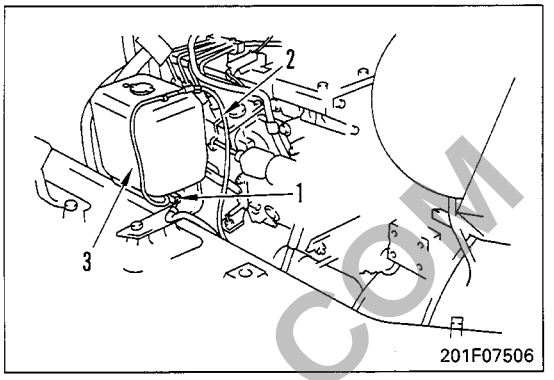
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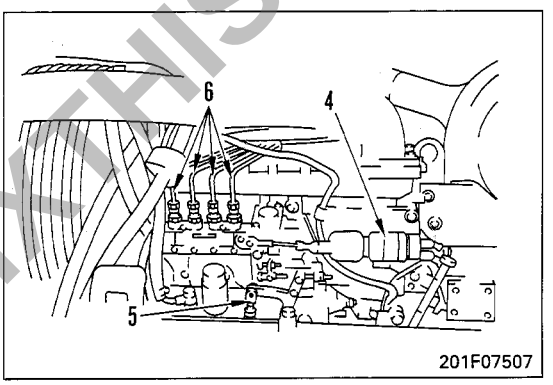
REMOVAL OF FUEL INJECTION PUMP ASSEMBLY

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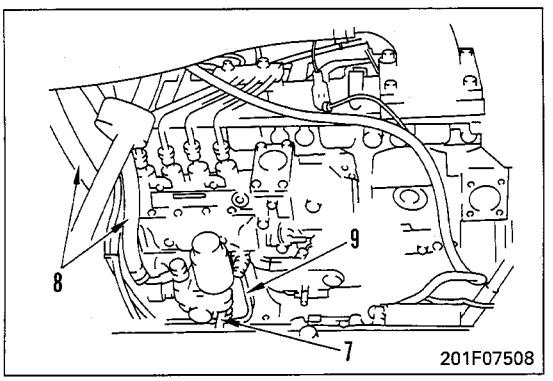
1. Open engine hood.
2. Disconnect wiring connector (1) and hose (2), and remove washer (3) together with bracket.
3. Disconnect engine stop solenoid rod, remove solenoid (4) together with bracket, and move towards side. ※1
4. Disconnect fuel control cable (5). ※2
5. Disconnect 4 delivery tubes (6). ※3
6. Disconnect fuel supply hose (7).
   ★ After removing the fuel supply hose, bend the hose and tie it with wire to prevent the fuel from leaking out.
7. Disconnect hose (8) between fuel filter and fuel injection pump at pump end.
8. Remove lubrication tube (9).
9. Remove cover (10), then crank to **a** position where pin (2) (ϕ4.0 — 4.5 mm, length = Approx. 100 mm) can be inserted from portion a into injection pump drive gear.
10. Remove mounting bracket (11), then remove fuel injection pump assembly (12). ※4



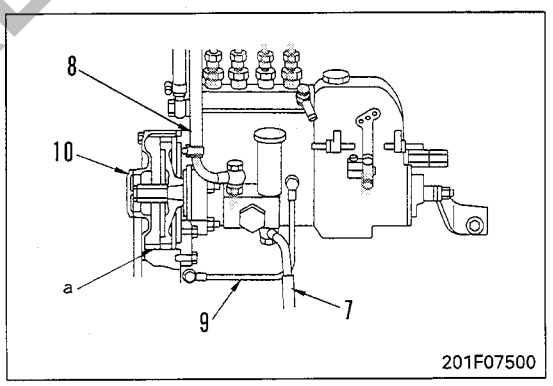
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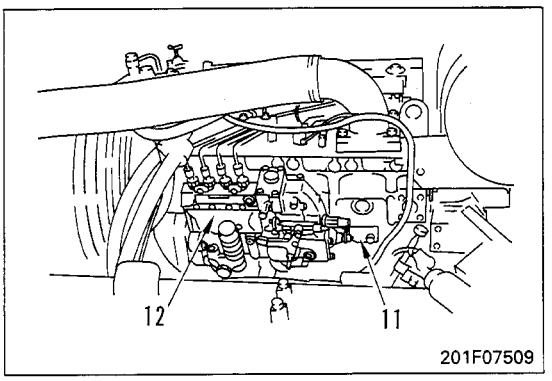
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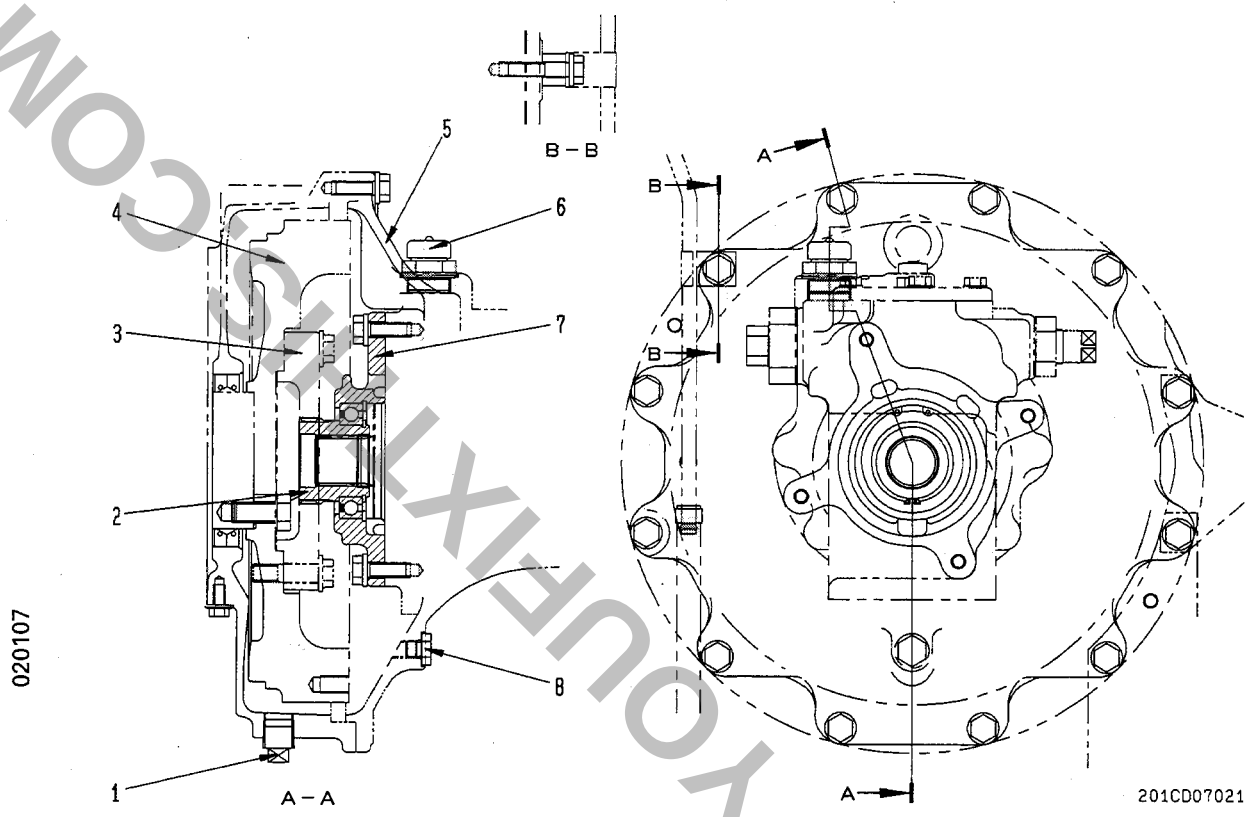


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PTO (COUPLING)



1. Drain plug
2. Shaft
3. Coupling
4. Flywheel
5. Pump case
6. Breather / oil filler plug
7. Cage
8. Level plug

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SAFETY
SAFETY NOTICE

IMPORTANT SAFETY NOTICE

Proper service and repair is extremely important for safe machine operation. The service and repair techniques recommended by Komatsu and described in this manual are both effective and safe. Some of these techniques require the use of tools specially designed by Komatsu for the specific purpose.

To prevent injury to workers, the symbol ⚠ is used to mark safety precautions in this manual. The cautions accompanying these symbols should always be followed carefully. If any dangerous situation arises or may possibly arise, first consider safety, and take the necessary actions to deal with the situation.

GENERAL PRECAUTIONS

Mistakes in operation are extremely dangerous. Read the Operation and Maintenance Manual carefully BEFORE operating the machine.

1. Before carrying out any greasing or repairs, read all the precautions given on the decals which are fixed to the machine.
2. When carrying out any operation, always wear safety shoes and helmet. Do not wear loose work clothes, or clothes with buttons missing.
   - Always wear safety glasses when hitting parts with a hammer.
   - Always wear safety glasses when grinding parts with a grinder, etc.
3. If welding repairs are needed, always have a trained, experienced welder carry out the work. When carrying out welding work, always wear welding gloves, apron, hand shield, cap and other clothes suited for welding work.
4. When carrying out any operation with two or more workers, always agree on the operating procedure before starting. Always inform your fellow workers before starting any step of the operation. Before starting work, hang UNDER REPAIR signs on the controls in the operator's compartment.
5. Keep all tools in good condition and learn the correct way to use them.
6. Decide a place in the repair workshop to keep tools and removed parts. Always keep the tools and parts in their correct places. Always keep the work area clean and make sure that there is no dirt or oil on the floor. Smoke only in the areas provided for smoking. Never smoke while working.

PREPARATIONS FOR WORK

7. Before adding oil or making any repairs, park the machine on hard, level ground, and block the wheels or tracks to prevent the machine from moving.
8. Before starting work, lower blade, ripper, bucket or any other work equipment to the ground. If this is not possible, insert the safety pin or use blocks to prevent the work equipment from falling. In addition, be sure to lock all the control levers and hang warning signs on them.
9. When disassembling or assembling, support the machine with blocks, jacks or stands before starting work.
10. Remove all mud and oil from the steps or other places used to get on and off the machine. Always use the handrails, ladders or steps when getting on or off the machine. Never jump on or off the machine. If it is impossible to use the handrails, ladders or steps, use a stand to provide safe footing.

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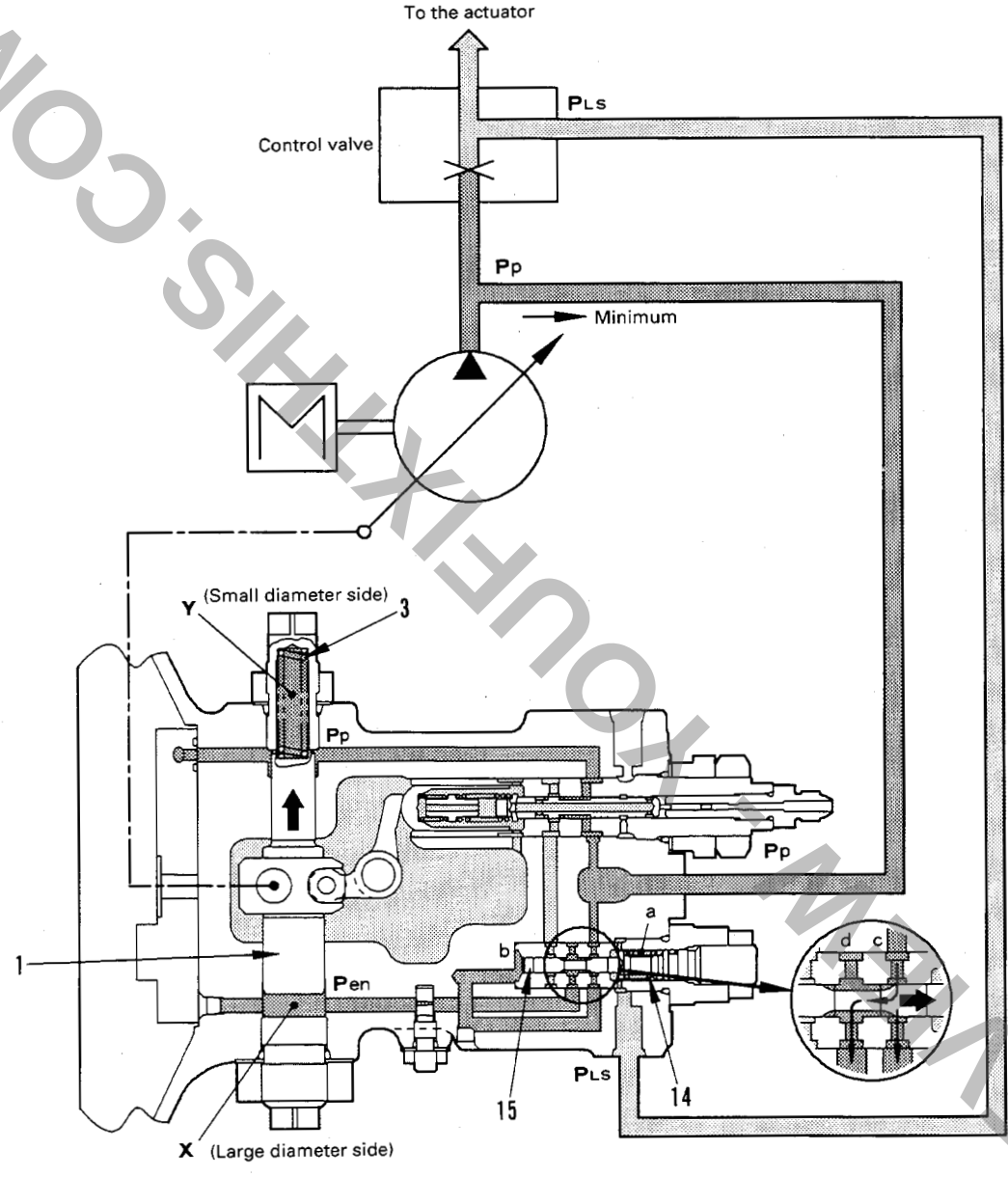
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OPERATION

1. When the control valve is at "NEUTRAL" position

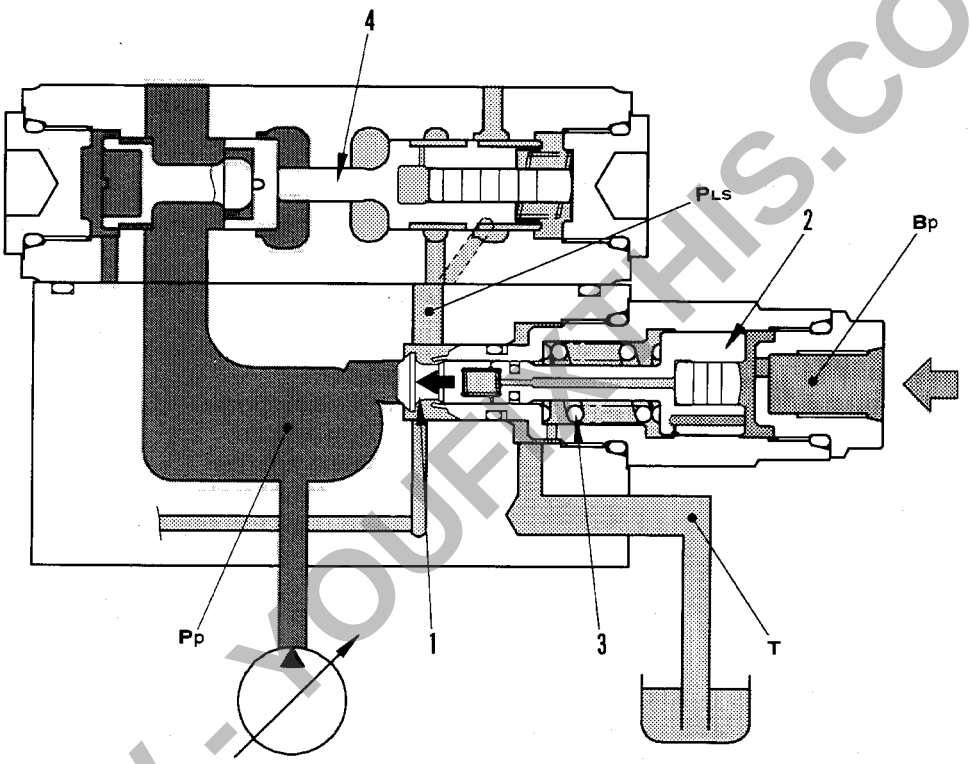


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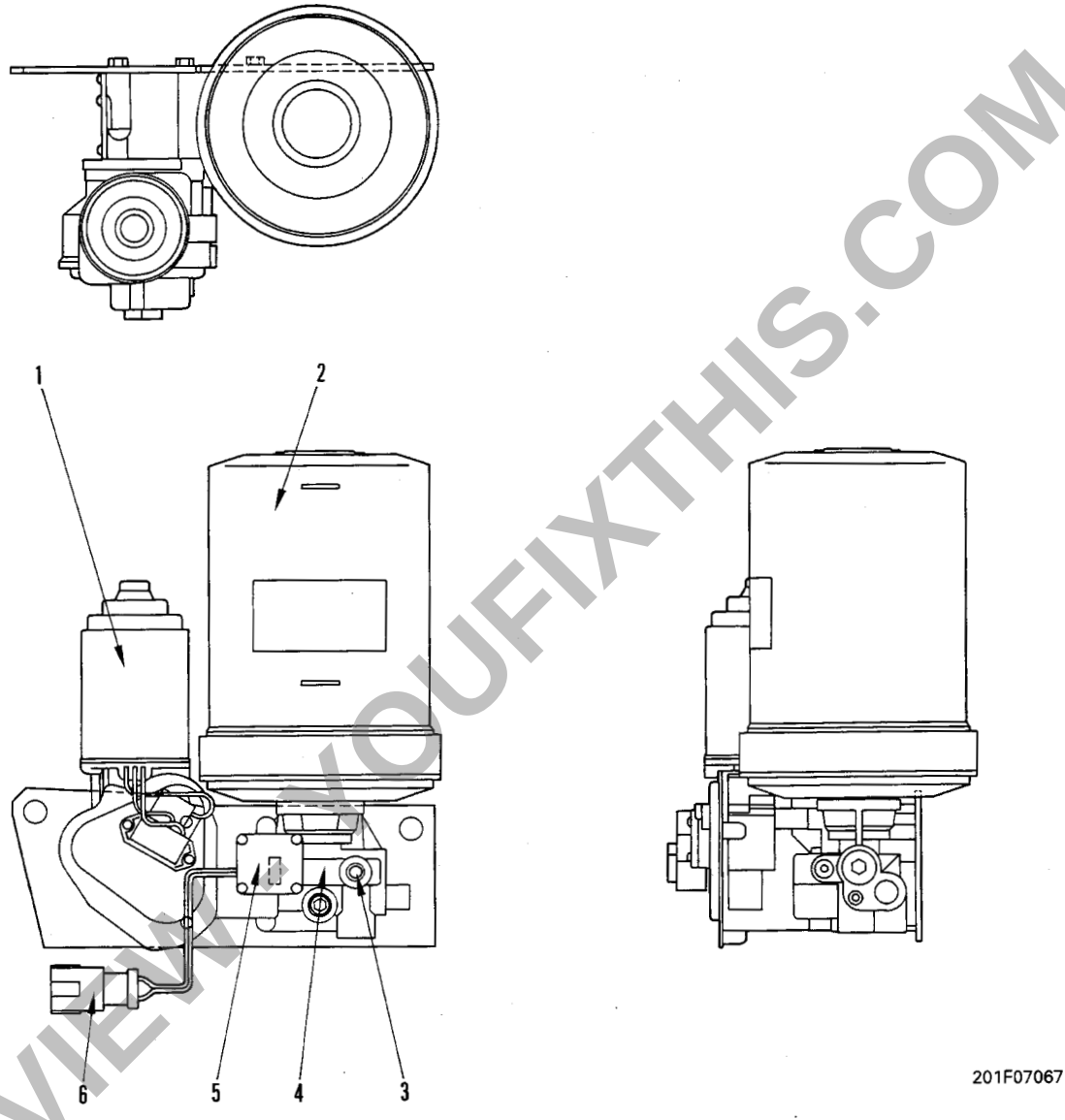
Swing and boom RAISE are operated simultaneously

- When the swing and the boom RAISE are operated at the same time, the signal pressure from the boom RAISE **PPC** circuit is introduced to the pilot port **Bp**.
- When this pilot pressure **Bp** acts on the piston (2) and becomes greater than the spring (3) force, the piston (2) is pushed to the left (⬅) side, closes the valve (1), and the pump pressure **Pp** does not flow to the pressure reducing valve (4) of the swing valve.
- By this, the swing **LS** pressure **PLS** is not generated, and only the **LS** pressure of the boom RAISE is introduced into the pump **LS** valve. Thus, the pump discharge amount is controlled by the boom RAISE **LS** pressure.
- The volume of the pilot pressure **Bp** is determined by the amount of stroke of the control lever.

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2) Motor operated grease pump



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1. Motor
2. Grease cartridge
3. Air bleeding plug
4. Pump
5. Pressure switch
6. Connector

SPECIFICATIONS

Type : LD05CP

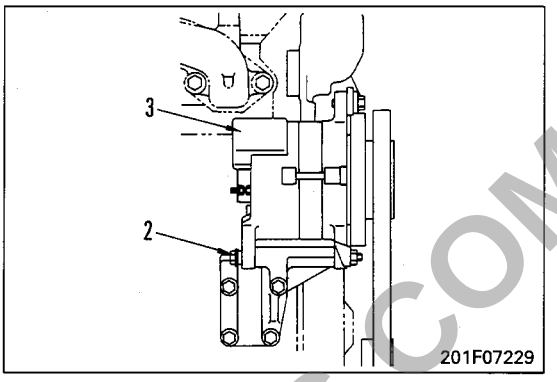
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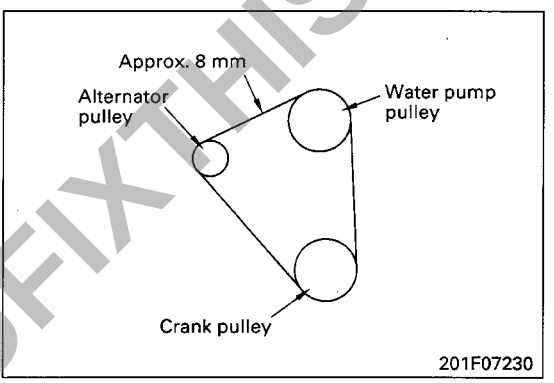
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TESTING AND ADJUSTING ALTERNATOR FAN BELT TENSION

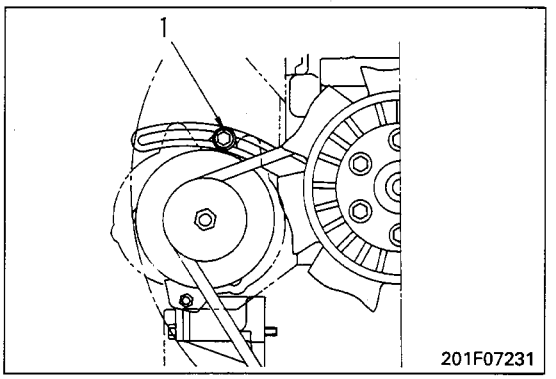
★ If the deflection of the belt when it is pressed at a point midway between the alternator pulley and the drive pulley is not within the standard value, or when carrying out maintenance after replacing the belt, adjust the belt tension as follows.

1. Loosen the mounting bolts (2) of alternator assembly (3), and belt tension adjustment bolt (1).
2. Turn adjustment bolt (1) and move the alternator assembly to adjust the tension of the belt. When the tension is adjusted, tighten adjustment bolt (1) first, then tighten the alternator mounting bolts (2).
3. After adjusting the belt tension, check again to confirm that the belt tension is within the standard value.



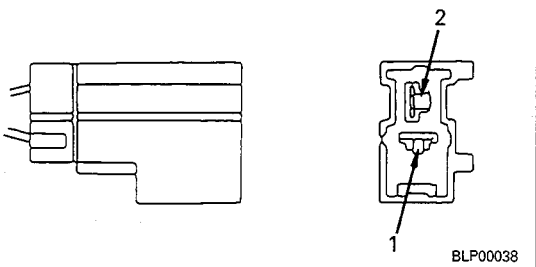
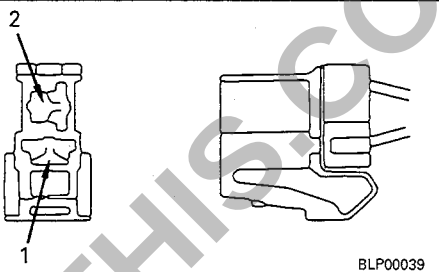
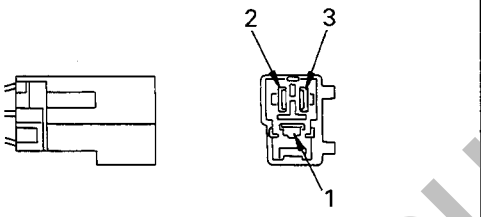
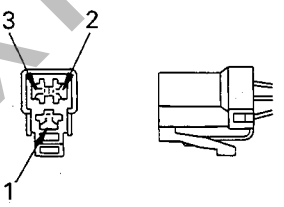
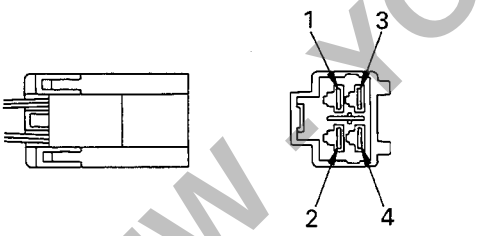
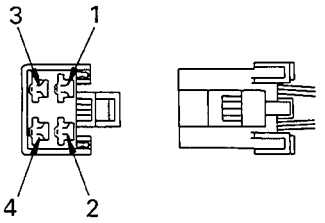
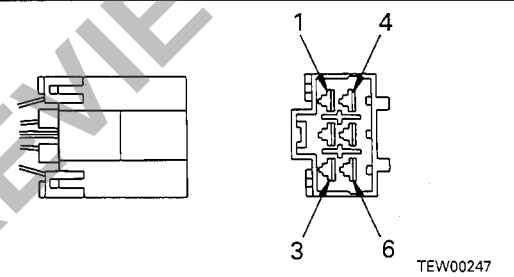
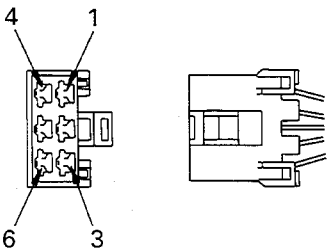
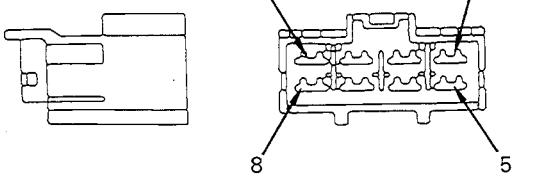
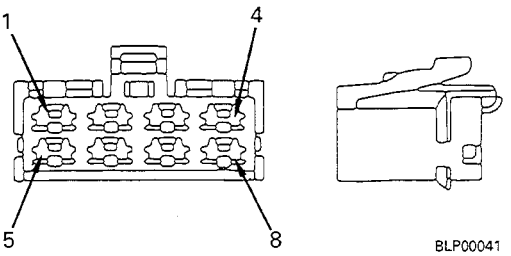


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No. of pins	M type connector	
	Male (female housing)	Female (male housing)
2	 BLP00038	 BLP00039
3	 TEW00243	 TEW00244
4	 TEW00245	 TEW00246
6	 TEW00247	 TEW00248
8	 BLP00040	 BLP00041

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TROUBLESHOOTING OF HYDRAULIC AND MECHANICAL SYSTEM (H MODE)

Troubleshooting flow charts for each failure mode

All work equipment, travel, swing

H-1 Speeds of all work equipments, swing and travel are slow or lack of power 20-402
H-2 Excessive drop in engine speed, or engine stalls 20-404
H-3 All work equipment, travel and swing do not move 20-405
H-4 Abnormal sound is generated (around the pump) 20-405
H-5 Fine control ability is poor, or response is poor 20-406

Work equipment

H-6 Boom movement is slow or lacks of power 20-406
H-7 Arm movement is slow or lacks of power 20-408
H-8 Bucket movement is slow or lacks of power 20-410
H-9 Work equipment (boom, arm, bucket) does not move (but travel and swing are normal) 20-411
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Compound operations

H-12 In compound operations, work equipments, movement of one with larger load is slow. 20-412
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H-15 In travel + work equipment (boom RAISE) operation, travel speed drop is excessive 20-413

Travel system

H-16 Vehicle curves unintentionally during travel 20-414
H-17 Travel deviation is larger at starting 20-416
H-18 Travel speed is low, or lacks of power 20-416
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Swing system

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H-27 Excessive hydraulic drift of swing (when the swing brake is released or activated) 20-424
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Removal and Installation 30-124

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ASSEMBLY OF RECOIL SPRING ASSEMBLY

1. **Assembly of yoke piston assembly**
   1) Assemble U-packing (14) to yoke piston (11), and secure with snap ring (13).
   2) Assemble wear ring (12).

2. **Assembly of recoil spring assembly**
   1) Install O-ring (10) to cylinder (9).
   2) Assemble cylinder (9) and pilot (8) to spring (7), and set in tool **B**.
   3) Apply hydraulic pressure slowly to compress spring, and tighten nut (6) so that installed length of spring is dimension "**a**".
      ★ Installed length "**a**" of spring : 332 mm

      Thread of nut : Anti-friction compound (LM-P)

   4) Remove recoil spring assembly (4) from tool **B**.

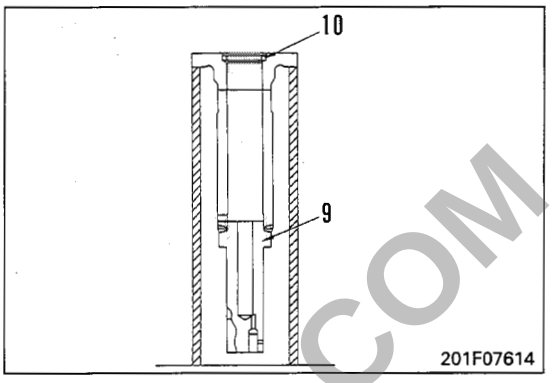
3. Fill inside of cylinder with at least 120 cc of grease.

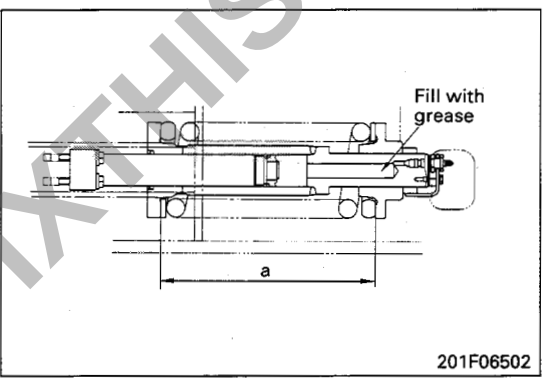
   Inside of cylinder : Grease (G2-LI)

4. Assemble yoke piston assembly (5) to recoil spring assembly (4).

   Sliding portion of yoke piston, wear ring : Grease (G2-LI)

5. Fit lubricator (3) and seat (2), and secure with lock plate (1).
   ★ Install the valve so that the fitting faces the outside.





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ASSEMBLY OF HYDRAULIC CYLINDER ASSEMBLY

★ Be careful not to damage the packings, dust seals, and O-rings.
★ Do not try to force the backup ring into position. Warm it in warm water (50 — 60°C) before fitting it.

1. Assembly of cylinder head assembly

1) Using tool **E6**, press fit bushing (22).

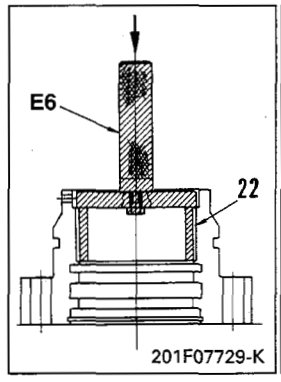
2) Assemble buffer ring (21).

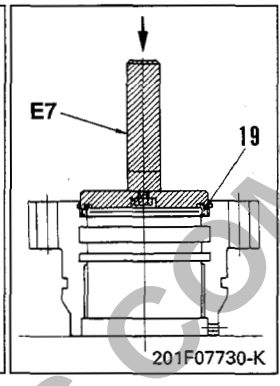
3) Assemble rod packing (20).

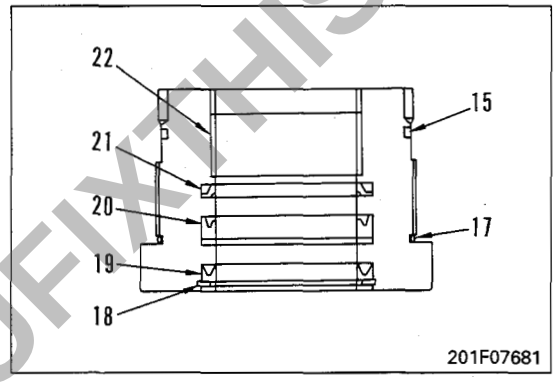
4) Using tool **E7**, install dust seal (19), and secure with snap ring (18).

5) Install backup ring (15) and O-ring.

6) Install O-ring (17).





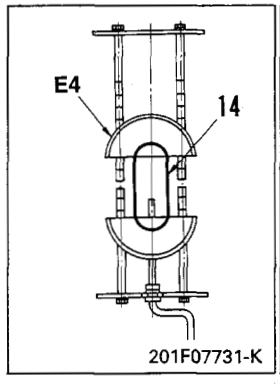


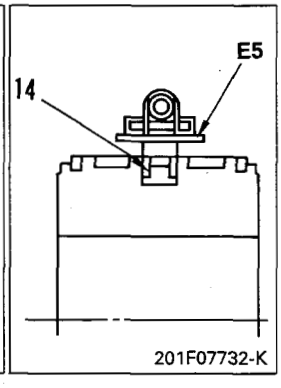
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2. Assembly of piston assembly

1) Using tool **E4**, expand piston ring (14).
★ Set the piston ring on the tool **E4**, and turn the handle 8 — 10 times to expand the ring.

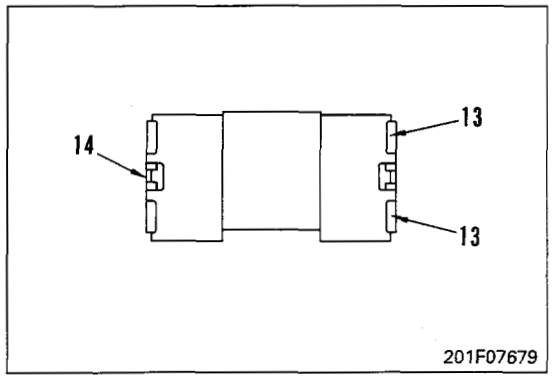
2) Set tool **E5** in position, and compress piston ring (14).





3) Assemble wear ring (13).
★ Be careful not to open the end gap of the ring too wide.

Ring groove : Grease (G2-LI)



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