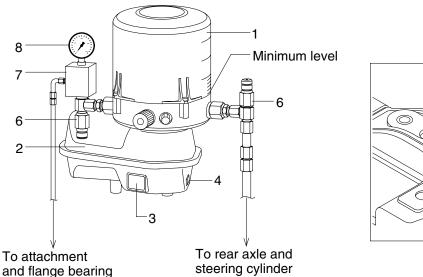
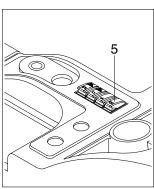
1. CENTRAL GREASE LUBRICATION SYSTEM

1) MAJOR COMPONENT





75798CG01

- 1 Grease tank
- 2 Grease pump
- 3 Control unit
- 4 Push button

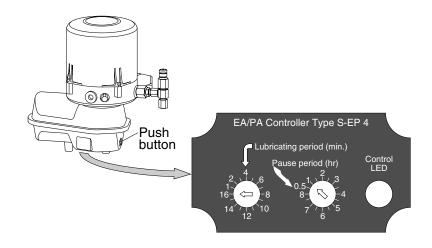
- 5 Central grease lubrication switch
- 6 Pump element
- 7 Relief valve
- 8 Pressure indicator

(1) Central grease lubrication switch



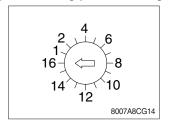
- (1) This switch is used to operate the central grease lubrication system.
- (2) When this switch turned ON, the central grease lubrication system is operated for 16 minutes once.
- (3) Please turn the switch OFF.

2) ELECTRONIC CONTROL UNIT



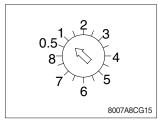
8007A8CG18

(1) Lubricating period setting dial



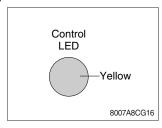
- ① This dial use to set the greasing period from 1 to 16 minutes.
- ② Default period is 16 minutes.
- * Use a minus(-) screw driver to change settings.

(2) Pause period setting dial



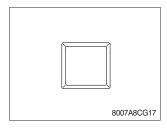
- ① This dial is use to set the pause period from 0.5 to 8 hours.
- ② Default period is one hour.

(3) Control LED



- ① This LED indicates operating status of the central grease lubrication system.
- ② Turn the starting switch ON, the LED will light up for 1.5 seconds.
- ③ During the central grease lubrication system is operated, it will blink at 0.5 second intervals.
- When the lubrication system is failed, the LED is light up continuously.

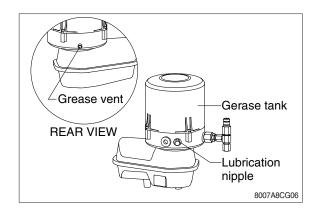
3) PUSH BUTTON



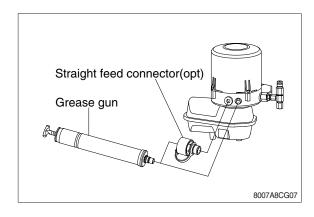
- ① This button use to operate the central grease lubrication system.
- ② Pushing the button, the central grease lubrication system is operated for 16 minutes once.

4) FILLING THE GREASE TANK

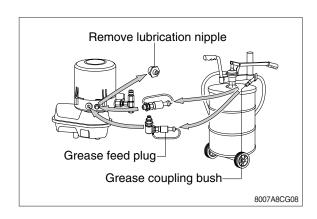
- (1) Standard filling via lubrication nipple with manual or pneumatic grease gun.
- * Lubricate the grease until it flows out to the grease vent.
 - · Capacity : 4 kg (8.8 lb)



(2) Manual hand grease gun.



(3) Pneumatic grease pump (option).



5) REPAIR INSTRUCTIONS

(1) Case of system blockage

- ① A creased or clogged lubricant pipe
- ② Grease points overfilled or clogged by lubricant
- 3 Lubricant not suitable for central lubrication system
- ④ Distributor outlet closed
- ⑤ Blocked distributor

(2) Message signalling a blockage

The system pressure is exceeded (265 kgf/cm²), a blockage may exist in the system and will be signalled by one of the followings.

- ① The pressure indicator at grease pump.
- ② The pressure indicator at secondary distributor.

(3) Repair of a distributor when blocked:

- ① Remove the main distributor from the system, nothing the sequence of removal.
- ② Remove the plugscrews from the piston holes and move the pistons to and fro (don't expel them); re-insert the plug-screws.
- ③ If the main distributor is not blocked, do the secondary distributor as above mentioned.
- Push the piston of the blocked distributor outside and check the drilling and the piston surface for scratches and deficiencies.
- ⑤ Renew the distributor affected by serious deficiencies.
- * Pistons are not interchangeables for main and secondary distributor.
- * Deposits of hardened grease detected at pistons and drillings of distributor must be eliminated by washing and blowing. The drillings in distributor must be free of residues of grease. This should be checked by use of some thin wire.
- * Hardening of grease indicates that the lubricant being used is not suitable for the central grease lubrication system. Ask for advice by the supplier of the lubricant. After having checked both distributor, re-assemble the distributor complying with the sequence noted down previously. In order to preclude jamming of pistons, tighten the plug-screws to the specified tightening torque.
 - · Tightening torque: 1.2 kgf·m (8.7 lbf·ft)
- ① Check the distributor for correct operation, using oil or grease.
- ② Install the distributor in the system.
- 3 Start the machine and check it for correct operating pressure (150kgf/cm²).
- * The repair work has to be done under maximum cleanliness.

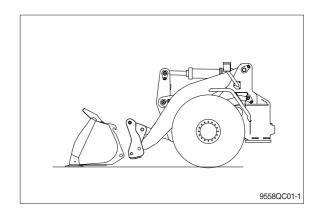
6) TROUBLESHOOTING

Category	Applications	Service
Pump does not work	Defective electronic control unit	Replace the control unit
	Electric cable is broken	Renew the electric cable
	Pump is defective	Replace the pump
Pump is working, but does	Air in the feed piston filling	Bleed the pump
not supply of lubrication	Grease level dropped below minimum level	Refill the grease tank
	Defective pump element	Replace the pump element
No grease at all points of	Pump does not work.	Refer to "Pump does not work".
lubrication	Inoperative time is too long or period of	Reduce the inoperative time or increase
	lubrication is too short.	the period of lubrication.
	System is blocked.	Refer to "Excessive pressure (above 265
		kgf/cm²) of the pressure indicator".
No grease at some points	Some pipes are burst or leakage	Renew the pipes
of lubrication	Leakage at screwed unions	Retighten or renew the screwed union
No grease at one point of	The lubrication pipe is burst or leakage	Renew the pipe
lubrication	Leakage at screwed unions	Retighten or renew the screwed union
Reduced pump speed	High pressure in the system	Check the system / bearing points
	Low ambient temperature	Not a defective (1 or 2 intermediate
		lubrication cycles may be useful)
Excessive pressure	Excessive pressure in the system	Check the system
(above 265 kgf/cm ²) of the	Progressive distributor is blocked	Replace the distributor
pressure indicator	System is blocked	Repair clogged / seized greasing points
	Defective valve spring	Replace the pressure relief valve
Signal of the LED	The LED of control unit is light up continuously	Check electrical system and control unit

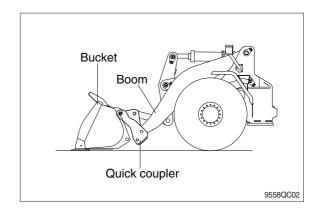
2. QUICK COUPLER

1) FIXING BUCKET WITH QUICK COUPLER

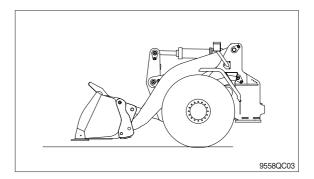
(1) Release the lock pins by pressing the attachment unlock switch.



(2) Tilt quick coupler forward and align the upper attaching points of the quick coupler with upper attaching points on the bucket. Raise the boom until the bucket rests in the quick coupler and tilt the quick coupler rearward until the bucket is level.



- (3) Lock the bucket with the attachment lock switch. The quick coupler pins move in the engaged position and buzzer sounds.
- Check for engagement as followings.
- a. Put down pressure on the attachment.
- b. Back up the machine and make sure that there is no movement between the quick coupler and attachment.



- Always check that the attachment is properly secured to the quick coupler by pressing the front part of the attachment against the ground.
- A Never use an attachment before you have checked its mounting.
- * If you are uncertain if the attachment is securely locked, you must visually check that the lock pins of the quick coupler are in the lock position.

2) REMOVE BUCKET FROM QUICK COUPLER

- (1) The attachment should be in a level position on the ground.
- (2) Release the lock pins by pressing the switch.
- (3) Lower the boom so that it disengage from the attachment.
- (4) Reverse away from the attachment.

3) PRECAUTION OF USING QUICK COUPLER

- ♠ When operating the machine with quick coupler, confirm that the attachment lock switch is lock position. Operating the machine with attachment
 - Operating the machine with attachment lock switch unlock position can cause the bucket to drop off and bring about the accident.
- ▲ Serious injury or death can result from this accident.