

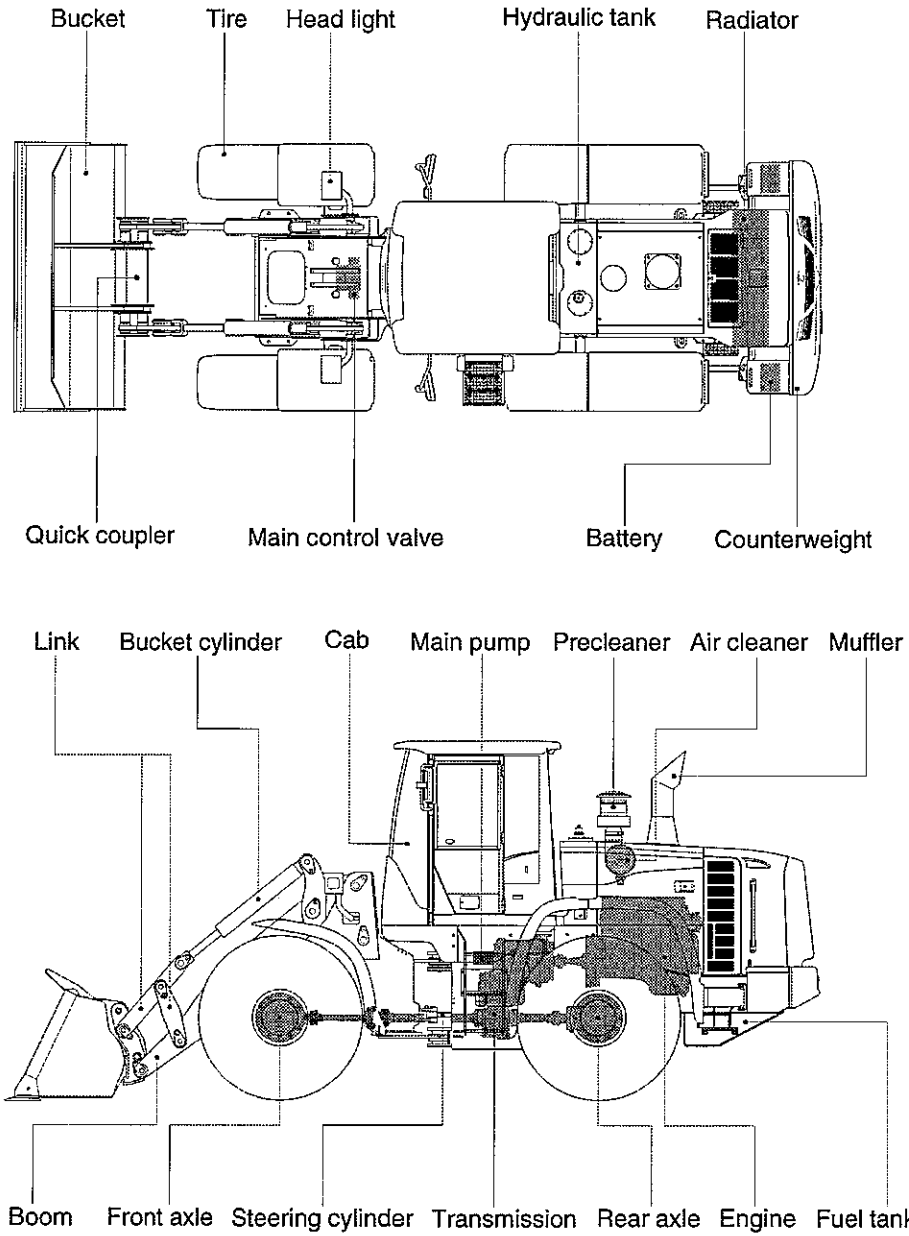
FILTER LIST

MODEL : HL740TM-9

FILTERTYPE	PARTNUMBER	LIFETIME HOURS	QTY ON MACHINE	REMARK
AIR INNER	11Q8-20310	WHEN REQUIRED	1	
AIR OUTER	11Q8-20320	250	1	
FUEL 1	FF5612	250	1	
FUEL 2				
PRE-FUEL FILTER ELEMENT	11NA-71041	250	1	
WATER SEPARATOR				
ENGINE OIL	LF3970	250	1	
HYDRAULIC RETURN	31LH-60070	1000	1	
HYDRAULIC ELEMENT SUCTION				
HYDRAULIC DRAIN				
BRAKE HYDRAULIC LINE FILTER	31LM-40090	1000	1	
HYDRAULIC PILOT LINE FILTER	31LM-10310	1000	1	
TRANSMISSION FILTER	0501-323-154	1000	1	
AIR BREATHER HYD TANK	31EE-02110	1000	1	
CORROSION RESIST				
AIRCON FRESH	11N6-90770	WHEN REQUIRED	1	
AIRCON REFRESH			1	
AIRFILTER CABIN	71LB-00290	250	1	CHECK WEEKLY

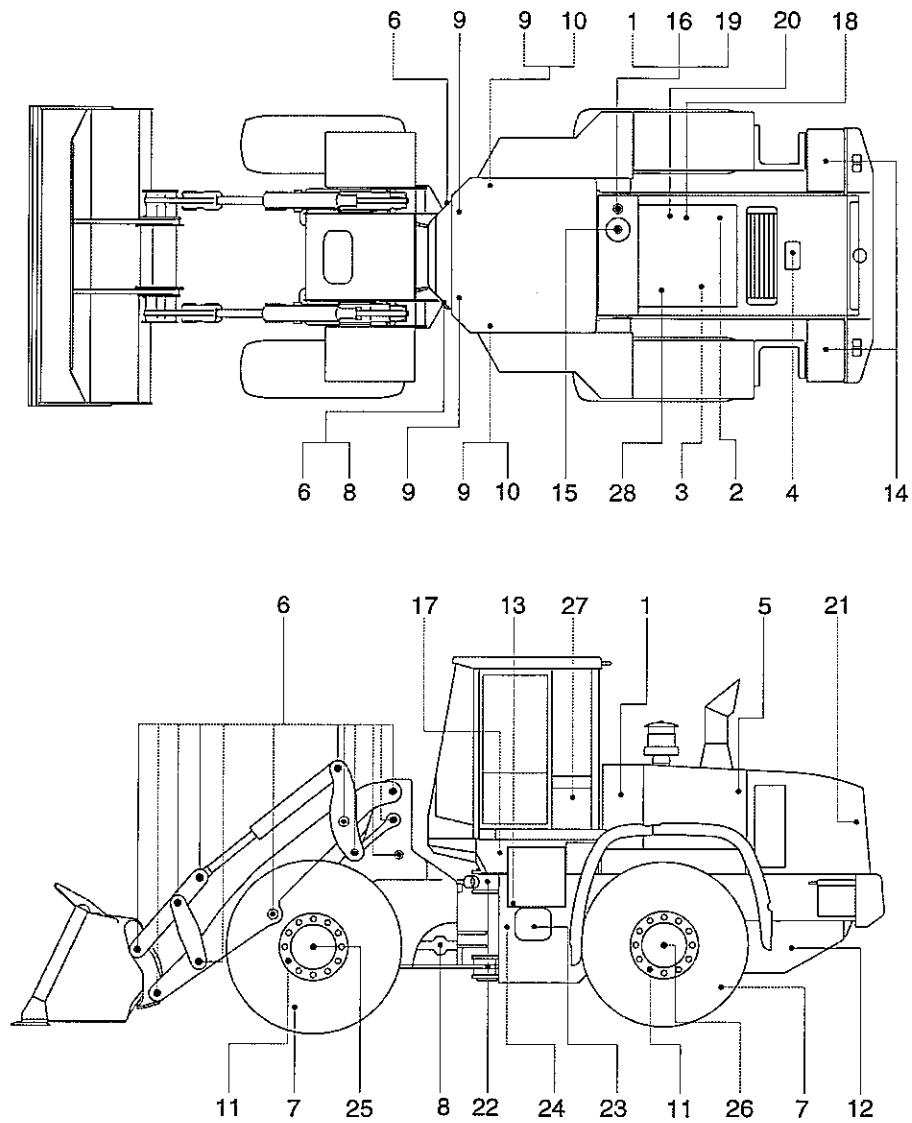
2. SPECIFICATIONS

1. MAJOR COMPONENTS



740TM92SP05

5. MAINTENANCE CHART



740TM96M10

Caution

- 1. Service intervals are based on the hour meter reading.
- 2. The number of each item shows the lubrication point on the machine.
- 3. Stop engine while filling oil, and use no open flames.
- 4. For other details, refer to the service manual.

Service interval	No.	Description	Service action	Oil symbol	Capacity l (U.S.gal)	Service points No.
10 Hours or daily	1	Hydraulic oil level	Check, Add	HO	151 (39.8)	1
	2	Engine oil level	Check, Add	EO	18 (4.8)	1
	4	Radiator coolant level	Check, Add	C	34 (9.0)	1
	5	Fan belt tension & damage	Check, Adjust	-	-	2
	20	Fuel pre-filter	Clean	-	-	1
50 Hours or weekly	6	Attachment pins	Lubricate	PGL	-	24
	7	Tire (air)	Check, Add	-	-	4
	8	Drive shaft (front, center)	Lubricate	PGL	-	2
	9	Steering cylinder pin	Lubricate	PGL	-	4
	10	Rear axle pivot	Lubricate	PGL	-	2
250 Hours	11	Wheel nuts	Check, Tight	-	-	48
	12	Fuel tank (water, sediment)	Drain	-	220 (58.1)	1
	14	Battery (voltage)	Check, Add	-	-	2
	16	Hydraulic tank air breather element	Replace	-	-	1
	27	Air conditioner and heater outer filter	Check, Clean	-	-	1
500 Hours	2	Engine oil	Change	EO	18 (4.8)	1
	3	Engine oil filter	Replace	-	-	1
	18	Fuel filter element	Replace	-	-	1
	20	Fuel pre-filter element	Replace	-	-	1
	21	Radiator, oil cooler, charge air cooler	Clean	-	-	3
	28	Air cleaner element (primary)	Clean	-	-	1
1000 Hours	13	Brake pressure filter element	Replace	-	-	1
	15	Hydraulic oil return filter	Replace	-	-	1
	17	Pilot line filter element	Replace	-	-	1
	22	Center pivot pin	Lubricate	PGL	-	2
	23	Transmission oil	Change	EO	25 (6.6)	1
	24	Transmission oil filter	Replace	-	-	1
	25	Axle oil (front)	Change	GO	21.8 (5.8)	3
26	Axle oil (rear)	Change	GO	21.8 (5.8)	3	
2000 Hours	1	Hydraulic oil *1	Change	HO	151 (39.8)	1
	4	Radiator coolant	Change	C	34 (9.0)	1
	19	Hydraulic oil suction strainer	Check, Clean	-	-	1
5000 Hours	1	Hydraulic oil *2	Change	HO	151 (39.8)	1
When required	27	Air conditioner and heater outer filter	Replace	-	-	1
		Air conditioner and heater inner filter	Clean, Replace	-	-	1
	28	Air cleaner element (safety and primary)	Clean, Replace	-	-	2

*1 Conventional hydraulic oil *2 Hyundai genuine long life hydraulic oil

※ Oil symbol

Refer the recommended lubricants for specification.

- EO : Engine oil
- HO : Hydraulic oil
- GO : Gear oil
- PGL : Grease
- C : Coolant

4. MAINTENANCE CHECK LIST

Scheduled maintenance is the normal maintenance necessary to provide proper and efficient machine operation. To protect your investment and prolong the service life of your machine, follow the scheduled maintenance list below.

1) EVERY 10 HOURS SERVICE

Check items	Service	Page
Hydraulic oil level	Check, Add	6-26
Engine oil level	Check, Add	6-15
Radiator coolant level	Check, Add	6-17
Belt tension & damage	Check	6-21, 22
Fuel pre-filter	Clean	6-24

2) INITIAL 50 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-15, 16, 17
Engine oil filter	Replace	6-15, 16, 17
Wheel nuts	Check, Tight	6-30, 31
Fuel filter element	Replace	6-24
Fuel pre-filter	Replace	6-24

3) EVERY 50 HOURS SERVICE

Check items	Service	Page
Attachment pins	Lubricate	6-39
Tire (air)	Check, Add	6-29
Drive shaft (front, center)	Lubricate	6-37
Steering cylinder pins	Lubricate	6-37
Rear axle pivot	Lubricate	6-37

4) INITIAL 100 HOURS SERVICE

Check items	Service	Page
Axle oil (front and rear)	Change	6-35, 36
Transmission oil	Change	6-32, 33
Transmission oil filter	Replace	6-32, 33

5) INITIAL 200 HOURS SERVICE

Check items	Service	Page
Brake pressure filter element	Replace	6-28
*Hydraulic oil return filter	Replace	6-27
*Pilot line filter element	Replace	6-27

* : Initial 250 hours service

6) EVERY 250 HOURS SERVICE

Check items	Service	Page
Wheel nuts	Check, Tight	6-30, 31
Fuel tank (water, sediment)	Drain	6-23
Battery (voltage)	Check	6-41, 42
Hydraulic tank air breather element	Replace	6-27
Air conditioner and heater outer filter	Check, Clean	6-45

7) EVERY 500 HOURS SERVICE

Check items	Service	Page
Engine oil	Change	6-15, 16, 17
Engine oil filter	Replace	6-15, 16, 17
Fuel filter element	Replace	6-24
Fuel pre-filter	Replace	6-24
Radiator, oil cooler, change air cooler	Check, Clean	6-20
Air cleaner element (primary)	Clean	6-23

8) EVERY 1000 HOURS SERVICE

Check items	Service	Page
Brake pressure filter element	Replace	6-28
Hydraulic oil return filter	Replace	6-27
Pilot line filter element	Replace	6-27
Center pivot pin	Lubricate	6-37
Transmission oil	Change	6-32, 33
Transmission oil filter	Replace	6-32, 33
Axle oil (front and rear)	Change	6-35, 36
Aircon and heater outer filter	Replace	6-44

9) EVERY 2000 HOURS SERVICE

Check items	Service	Page
Hydraulic oil *1	Change	6-26
Radiator coolant	Change	6-17, 18, 19, 20
Hydraulic oil suction strainer	Check, Clean	6-27

*1 Conventional hydraulic oil

10) EVERY 5000 HOURS SERVICE

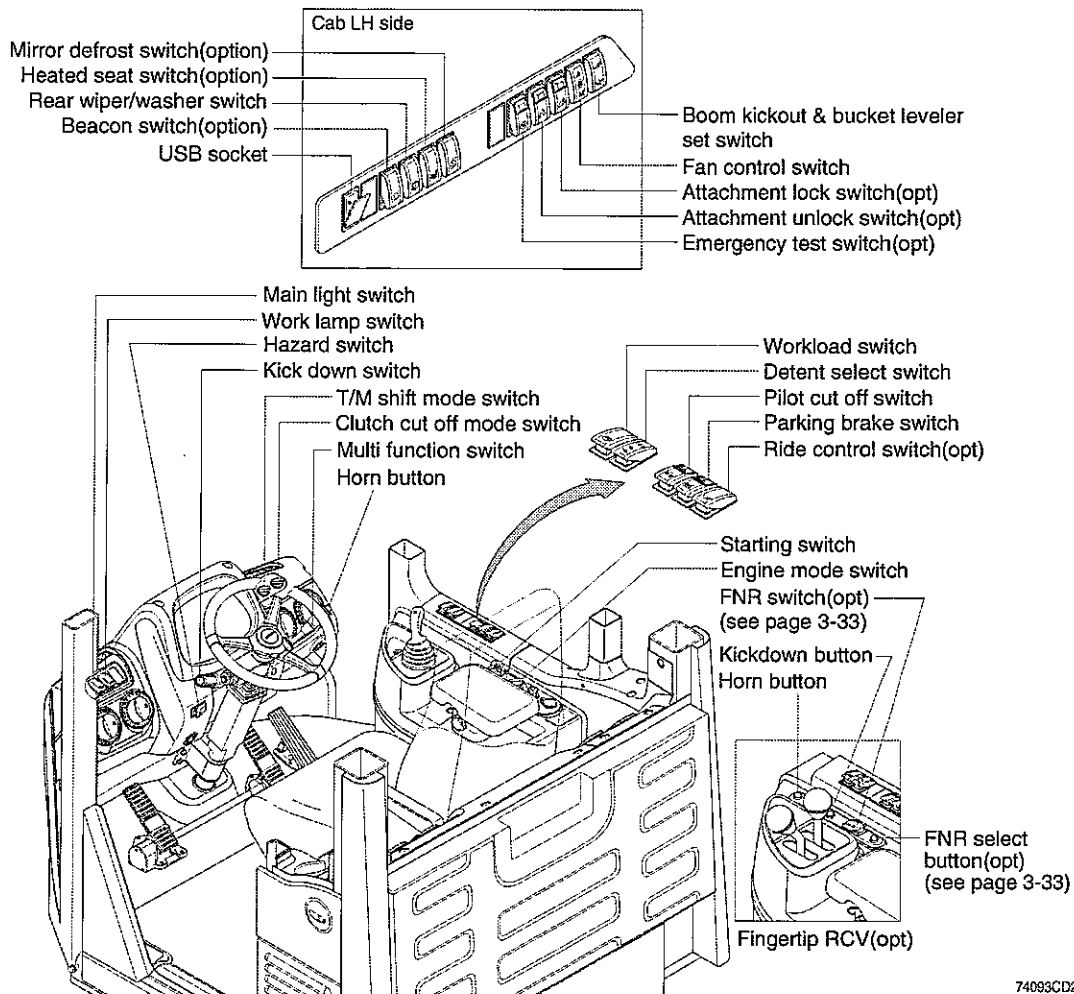
Check items	Service	Page
Hydraulic oil *2	Change	6-26

*2 Hyundai genuine long life hydraulic oil

11) WHEN REQUIRED

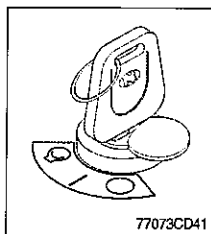
Check items	Service	Page
Air cleaner element		
· Safety	Check, Clean, Replace	6-23
· Primary	Check, Clean, Replace	6-23
Air conditioner and heater		
· Outer filter	Check, Clean, Replace	6-44
· Inner filter	Check, Clean, Replace	6-44

4. SWITCHES



74093CD29

1) STARTING SWITCH



(1) There are three positions, OFF, ON and START.

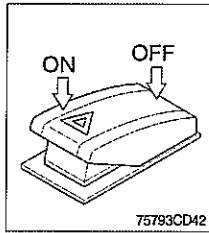
- ○ (OFF) : None of electrical circuits activate.
- | (ON) : All the systems of machine operate.
- ◯ (START) : Use when starting the engine.

Release key immediately after starting.

※ If you turn ON the starting switch in cold weather, the fuel warmer is automatically operated to heat the fuel by sensing the coolant temperature. Start the engine in 1~2 minutes after turning ON the starting switch. More time may take according to ambient temperature.

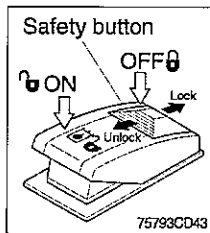
※ Key must be in the ON position with engine running maintain electrical and hydraulic function and prevent serious machine damage.

2) HAZARD SWITCH



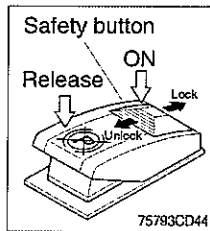
- (1) Use for parking, or roading the machine.
- (2) Both turn signal lights will flash simultaneously.
 - ※ If the switch is left ON for a long time, the battery may be discharged.

3) PILOT CUT OFF SWITCH



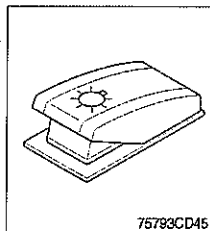
- (1) When the switch is pressed to OFF position, the hydraulic pilot line will be cut off, so the work equipment will not operate.
- (2) Press the ON position in order to unlock the hydraulic pilot line.
 - ※ This switch can be set to ON or OFF position only when the safety button is pulled to the unlock position.

4) PARKING BRAKE SWITCH



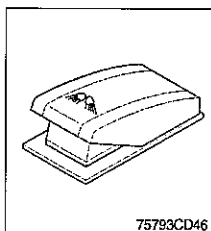
- (1) When the switch is pressed to ON position, the parking brake will start to operate and the cluster warning lamp will come ON.
- (2) Press the release position in order to disengage the parking brake.
 - ※ When operating the gear selector lever, be sure to release the parking brake. If the machine is operated with the parking brake engaged, the brake will overheat and may cause the brake system to go out of order.
 - ※ This switch can be set to ON or Release position only when the safety button is pulled to the unlock position.

5) MAIN LIGHT SWITCH



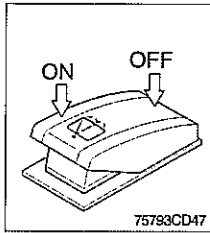
- (1) This switch use to operates the clearance lamp and head light by two step.
 - First step : Clearance lamp and cluster illumination lamp comes ON. Also, all indicator lamp of switches come ON.
 - Second step : Head light comes ON.

6) WORK LAMP SWITCH



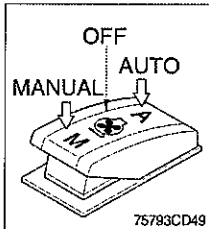
- (1) This switch use to operates the front and rear work lamps by two step.
 - First step : Front work lamp located on the cab comes ON.
 - Second step : Rear work lamp located on the cowl comes ON.

7) REAR WIPER AND WASHER SWITCH



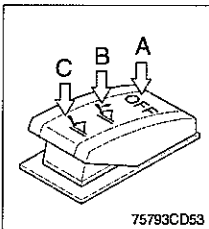
- (1) The switch use to operates the rear wiper and washer by two step.
 - **First step** : The rear wiper operates.
 - **Second step** : The washer liquid is sprayed and the rear wiper is operated only while pressing. If release the switch, return to the first step position.

8) FAN CONTROL SWITCH



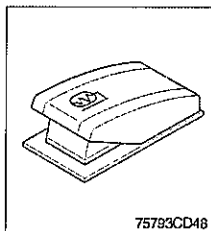
- (1) This switch use to control the cooling fan.
- (2) This switch has three positions.
 - **AUTO** : The fan automatically work in reverse according to set up interval and time.
 - ※ Refer to page 3-14.
 - **OFF** : Only forward rotation is possible.
 - **MANUAL** : The fan rotates reverse only while pressing this position. If release the switch, return to the OFF position.
- (3) On pressing the switch, the indicator lamp is turned ON.

9) DETENT SELECT SWITCH



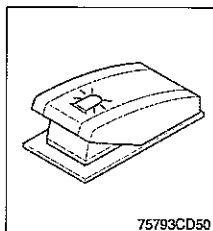
- (1) This switch is used to select the detent functions.
- (2) This switch has three positions.
 - **A** : Detent functions are not operated.
 - **B** : Only boom detent function is operated.
 - **C** : Boom and bucket detent functions are operated.

10) MIRROR DEFROST SWITCH (option)



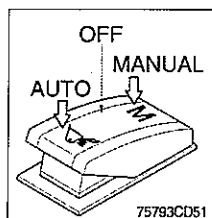
- (1) If the mirror defrost switch is pressed in condition of key ON, it operates for 15 minutes. After 15 minutes, the defrost function stops automatically.
- (2) One more pressing the switch in operation also stops defrost function.
- (3) On pressing the switch, the indicator lamp is turned ON.

11) BEACON SWITCH (option)



- (1) This switch turns ON the rotary light on the cab.

12) RIDE CONTROL SWITCH (option)



(1) AUTO

Press in the bottom of the ride control switch in order to turn on the automatic ride control. The automatic ride control automatically turns on when the travel speed exceeds a preset speed of approximately 7 km/h. The automatic ride control automatically shuts off during low speed travel (below 7 km/h).

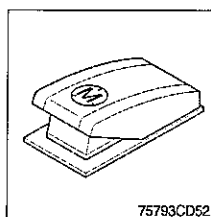
(2) MANUAL

Press in the top of the ride control switch in order to turn on the system for ride control regardless speed. The ride control will smooth the ride of the machine during travel.

(3) OFF

Press the ride control switch to the middle position in order to turn off the system for the ride control.

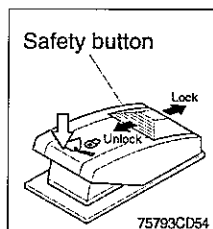
13) EMERGENCY TEST SWITCH (option)



(1) The emergency steering system can be manually tested. Push the switch in order to determine if the emergency steering and the emergency steering lamp are functional.

(2) When the switch is pressed, the emergency steering pump motor will run. The emergency steering lamp will light. If the emergency steering lamp does not light, do not operate the machine.

14) ATTACHMENT LOCK SWITCH (option)



(1) Press this switch in order to engage the quick coupler pins.

(2) If this switch is pressed for 5 seconds, the quick coupler pins move in the engaged position.

If the switch is released, the quick coupler pins will remain in the engaged position.

※ This switch can be pressed only when the safety button is pulled to the unlock position.

※ Check for engagement as followings.

① Put down pressure on the attachment.

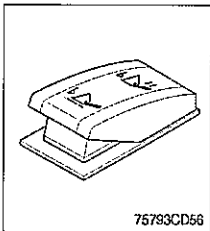
② Back up the machine and make sure that there is no movement between the quick coupler and attachment.

15) ATTACHMENT UNLOCK SWITCH (option)



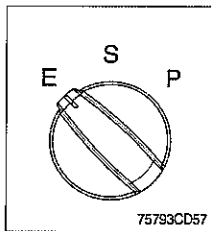
- (1) Press this switch in order to disengage the quick coupler pins.
 - (2) If this switch is pressed for 5 seconds, the quick coupler pins move in the disengaged position.
If the switch is released, the quick coupler pins will remain in the disengaged position.
- ※ This switch can be pressed only when the safety button is pulled to the unlock position.

16) BOOM KICK OUT AND BUCKET LEVELER SET SWITCH



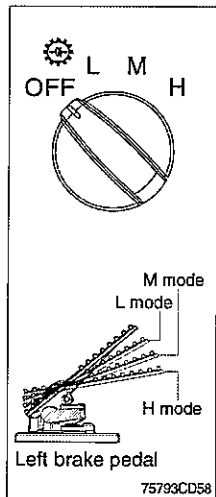
- (1) Press this switch in order to set the boom kickout and bucket leverer.
- ※ Refer to page 4-22.

17) ENGINE MODE SWITCH



- (1) The operator can adjust the machine's performance with this dial switch.
 - P (Power) : Maximum power output for hard digging operation or hill climb.
 - S (Standard) : General digging and loading operation.
 - E (Econo) : Maximum fuel efficiency for general loading.

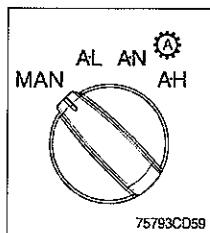
18) CLUTCH CUT OFF MODE SWITCH



- (1) Four modes are available for operator's preference and job condition.
 - OFF : The clutch cut off function is disable.
 - L (Low) : The clutch is disengaged early for short-distance and rapid loading.
 - M (Medium) : The clutch is disengaged normally for general digging and loading operation.
 - H (High) : The clutch is disengaged lately for slope ground.
- (2) The clutch cut off functions of the left brake pedal depend on the position of the left brake pedal and the position of the clutch cut off mode switch.

Positions for clutch cut off function			
Clutch cut off mode switch	L	M	H
Left brake pedal	L, M, H	M, H	H

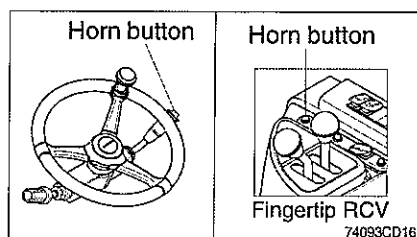
19) TRANSMISSION SHIFT MODE SWITCH



(1) Four modes are available for operator's preference and job condition.

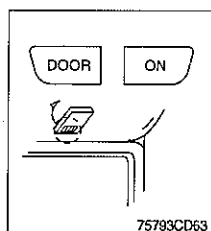
- MAN (Manual) : Machine is operated by selected gear on lever.
- AL (Auto Light) : Automatic shifting point is fast for long-distance transportation and fuel efficiency.
- AN (Auto Normal) : Automatic shifting point is normal without automatic kick-down to 1st gear for general digging and loading operation.
- AH (Auto Heavy) : Automatic shifting point is normal with automatic kick-down to 1st gear for more powerful operation.

20) HORN BUTTON



(1) If you press the button on the top of the multi-function switch, the horn will sound.

21) CAB LAMP SWITCH



(1) This switch turns ON the cab room lamp.

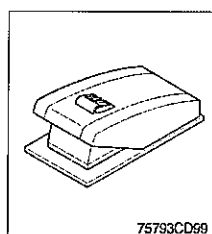
① DOOR

The lamp comes ON when the door is opened.
When the door is closed the lamp is OFF.

② ON

This switch is used to turn the lamp ON or OFF.

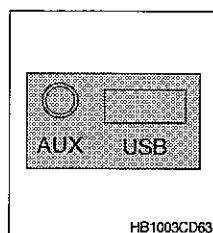
22) WORKLOAD SWITCH



(1) Press the switch in order to set "total" display at zero.

※ See page 3-16, weighing system.

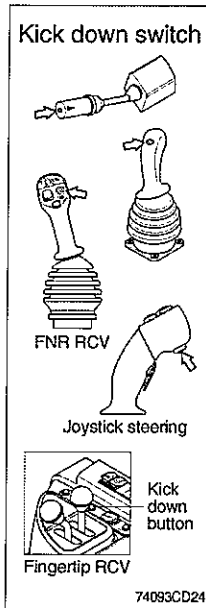
23) USB socket



(1) MP3 files are played when a USB device is connected to the USB port.

(2) In addition, the AUX port enables headphone and other devices.

24) KICK DOWN SWITCH



(1) Manual mode

It is effective 2nd speed to 1st speed only and recover to 2nd speed quickly when push the switch one more time.

(2) Automatic mode

① Mode 1 (down/up)

It shifts down quickly from current gear to one step lower speed by pushing the switch and recover to current speed quickly when push the switch one more time.

② Mode 2 (down)

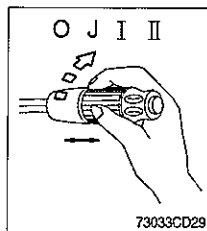
It shifts down from current gear to one step lower speed when push the switch every time.

The kick down function is released in only 1st speed.

※ Refer to page 3-13 for the kick down setting.

※ The normal autoshift function continues after the kick down switch is released.

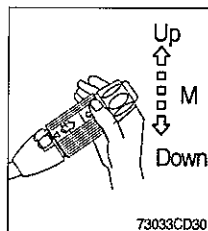
25) MULTI FUNCTION SWITCH



(1) Front wiper and washer switch

- ① When the switch is in J position, the wiper moves intermittently.
- ② When placed in I or II position, the wiper moves continuously.
- ③ If you push the grip of the lever, washer liquid will be sprayed and the wiper will be activated 2-3 times.

※ Check the quantity of washer liquid in the tank. If the level of the washer liquid is LOW, add the washer liquid (in cold, winter days) or water. The capacity of the tank is 1 liter.



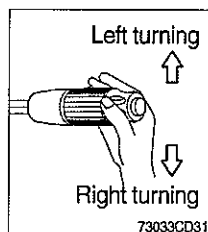
(2) Dimmer switch

- ① This switch is used to turn the head lights direction.

② Switch positions

- Up : To flash for passing
- Middle : Head lights low beam ON
- Down : Head lights high beam ON

- ③ If you release the switch when it's in up position, the switch will return to middle.

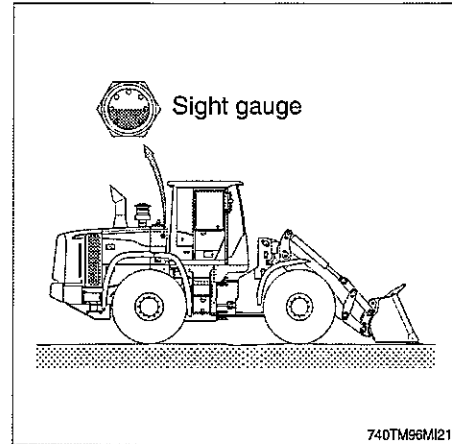


(3) Turning switch

- ① This switch is used to warn or signal the turning direction of the machine to other vehicles or equipment.
- ② Push the lever up for turning left, pull the lever down for turning right.

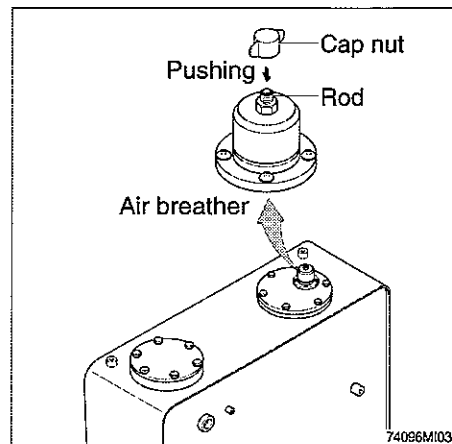
16) HYDRAULIC OIL CHECK

- (1) Lower the bucket on the ground at a flat location as in the illustration.
Stop the engine and then leave for about 5 minutes.
 - (2) Check the oil level at the sight gauge. The sight gauge is located on the left side of the hydraulic oil tank.
 - (3) The sight gauge should indicate the middle position.
- ※ Add hydraulic oil, if necessary.



17) FILLING HYDRAULIC OIL

- (1) Stop the engine to the position of level check.
- (2) Rotate the cap nut counter-clockwise by hand and push the rod to release the air pressure.
- (3) Remove the breather on the top of oil tank and fill the oil to the specified level.
- (4) Start engine after filling and operate the work equipment several times.
- (5) Check the oil level at the level check position after engine stops.



18) CHANGE THE HYDRAULIC OIL

- (1) Lower the bucket on the ground extend the bucket cylinder to the maximum.
 - (2) Loosen the cap and relieve the pressure in the tank by pushing the top of the air breather.
 - (3) Prepare a suitable container.
 - (4) To drain the oil loosen the drain plug at the fuel tank block.
 - (5) Tighten the drain plug.
 - (6) Fill proper amount of recommended oil.
 - (7) Put the breather in the right position.
 - (8) Start engine and run continually. Release the air by full stroke of control lever.
- ※ The oil must be free of bubbles. If bubbles are present in the oil, air is entering the hydraulic system. Inspect the suction hoses and hose clamps.

