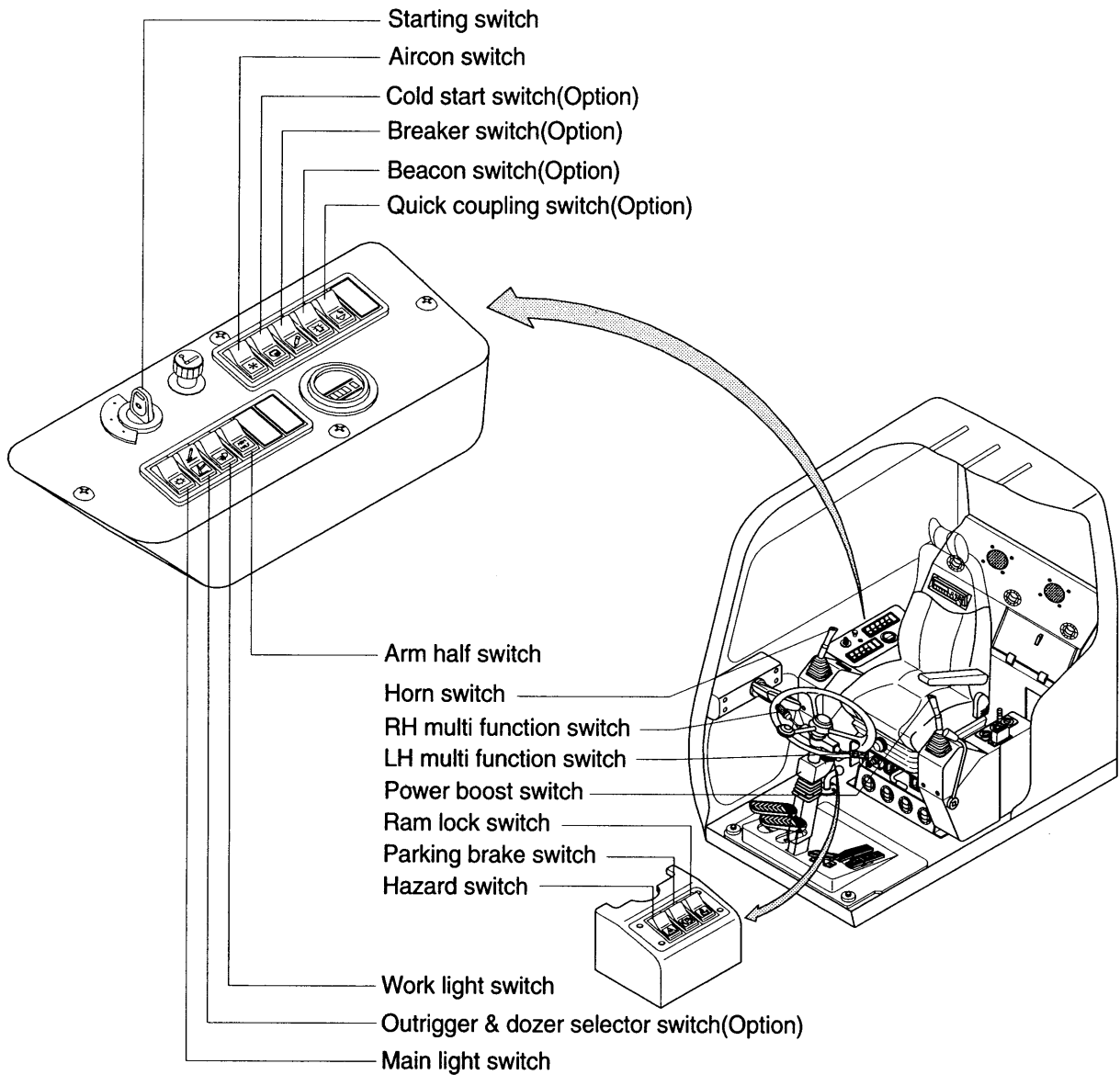
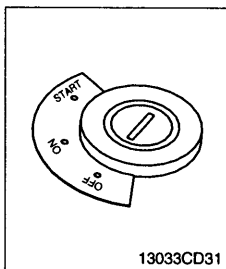


3. SWITCHES



13W03CD02

1) STARTING SWITCH

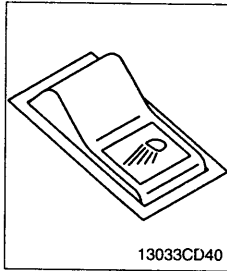


(1) There are three positions, OFF, ON and START.

- OFF : None of electrical circuits activate.
- ON : All the systems of machine operate.
- START : Use when starting the engine. Release key immediately after starting.

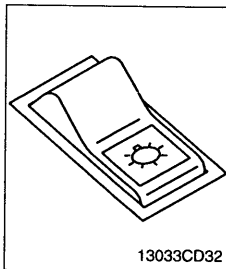
※ Check the travel Forward/Backward lever in the neutral position before starting the engine.

2) WORKING LIGHT SWITCH



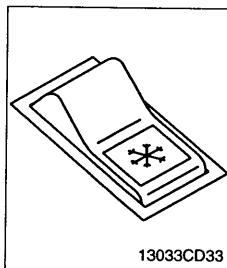
- (1) On pressing the switch, the boom light is turned ON.
- (2) The indicator lamp lights ON when the switch is operating.

3) MAIN LIGHT SWITCH



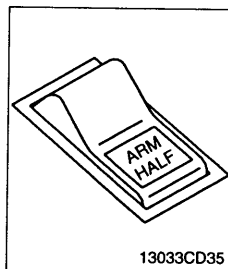
- (1) This switch use to operates the head light and clearance lamp by two step.
 - First step : Clearance lamp, number plate lamp and cluster illumination lamp comes ON.
 - Second step : Work light comes ON by RH multi function switch operation.
Also, the below indicator lamp comes ON.

4) AIRCON SWITCH



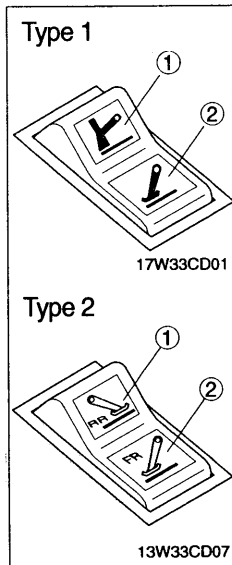
- (1) This switch use to operates the air conditioner.
- (2) Refer to the air conditioner and heater for detail operation.

5) ARM HALF SWITCH



- (1) When this switch is turned ON, the hydraulic oil flow into arm cylinder is cut by half during arm in operation.
- (2) The arm half flow function is useful for the fine control of arm or finishing work.
- (3) The below indicator lamp comes ON while operating this switch.

6) OUTRIGGER OR DOZER SELECTOR SWITCH(Optional)



(1) This switch is used to operate dozer blade or outrigger.

Switch position	Type 1		Type 2
	Dozer blade	Front outrigger dozer blade	Front outrigger Rear outrigger
Forward(①)	Dozer blade	Dozer blade	Rear outrigger
Backward(②)	-	Front outrigger	Front outrigger

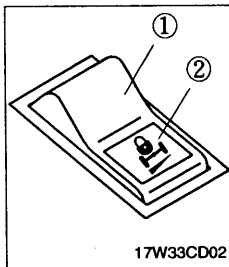
※ You must change the piping connections for above operating selection.

Please refer to pages 2072-2076 of parts manual.

(2) If the dozer and outrigger lever is moved forward position, the dozer blade or outrigger is downed, if the lever is moved backward, the dozer blade or outrigger moved upward.

Please refer to the dozer and outrigger lever at page 6-16.

7) RAM LOCK SWITCH

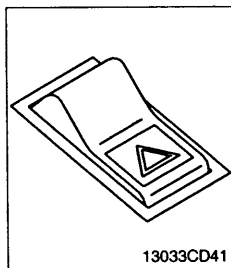


(1) This switch activate front axle oscillation cylinder to locking position for increase of stability.

- Push front(①) : Set front axle to locking position for excavation work or travels even ground. Also, the ram lock warning lamp comes ON at the warning indicator.
- Push rear(②) : Front axle will be oscillate depend on ground condition when the machine travel uneven ground.

(2) When the parking brake switch is ON or service brake is applied, front axle oscillating cylinder will activate locking position automatically.

8) HAZARD SWITCH

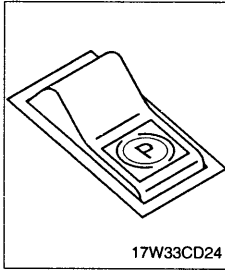


(1) Use for parking, or roading machine.

(2) LH and RH turn signal lamps come ON at the same time by this switch.

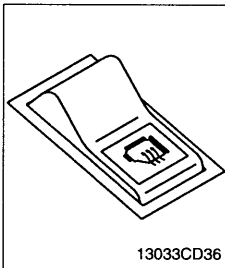
※ If the switch is left ON for a long time, the battery may be discharged.

9) PARKING BRAKE SWITCH



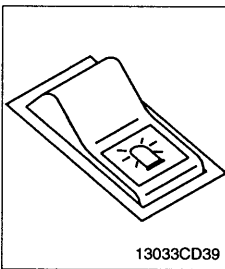
- (1) This switch is used to operate parking brake.
- (2) On pressing the switch, the below indicator lamp is turned ON and the pilot lamp comes ON at the warning indicator.

10) COLD START SWITCH (Option)



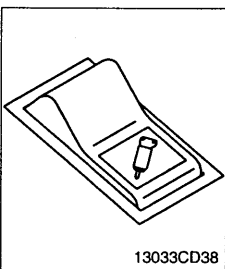
- (1) This switch is used for starting the engine in cold weather. If pressed, starting aid fluid injected to get easier engine starting.
- ※ **Never hold the push button switch in for more than 5 seconds, as this can damage the electric valve solenoid.**

11) BEACON SWITCH (Option)



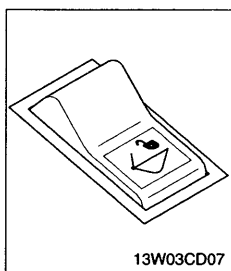
- (1) This switch turns ON the rotary light on the cab.
- (2) The below indicator lamp is turned ON when operating this switch.

12) BREAKER SWITCH (Option)



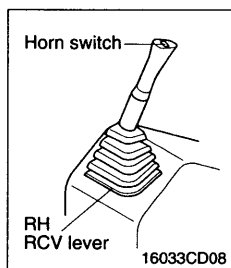
- (1) This switch is used to operate breaker.
- (2) On pressing breaker switch, the breaker operates only when this switch is pressed.

13) QUICK COUPLING SWITCH(Optional)



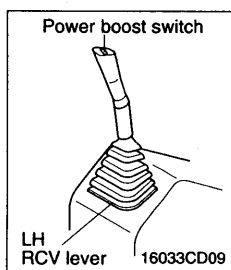
- (1) This switch is used to disengage the quick coupler pins.
- (2) If this switch is pressed for 5 seconds, the quick coupler pins move in the disengaged position.
If the switch is released, the quick coupler pins will remain in the disengaged position.

14) HORN SWITCH



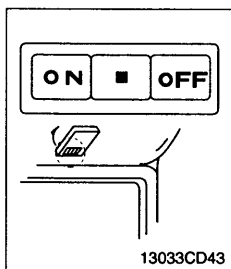
- (1) This switch is at the top of right side control lever.
On pressing, the horn sounds.

15) POWER BOOST SWITCH



- (1) This switch activates power max. function.
When this switch is kept pressed, hydraulic power of work equipment will increase approx. 110 percent during 8 seconds.
 - (2) After 8 seconds, function is cancelled automatically even switch is kept pressed.
- ※ **Do not use for craning purposes.**

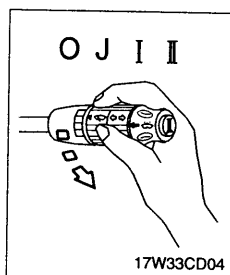
16) ROOM LAMP SWITCH



- (1) When the cab door is opened, the room lamp goes ON and if the cab door is closed, the room lamp goes OFF.
- (2) The room lamp can be turned ON and OFF by pressing the switch.

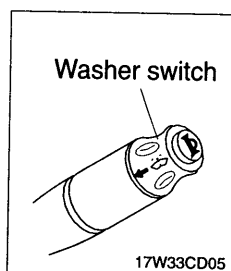
17) RH MULTI FUNCTION SWITCH

(1) Wiper switch



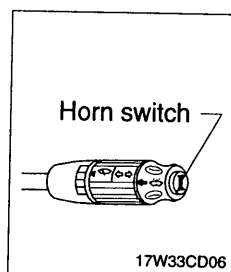
- ① When the switch is in J position, the wiper moves intermittently.
- ② When placed in I or II position, the wiper moves continuously.

(2) Washer switch



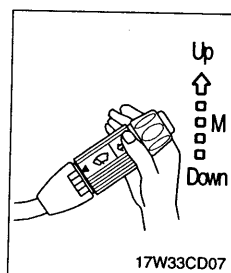
- ① If push the arrow direction, washer liquid will be sprayed and the wiper will be activated once.
- ※ **Check the quantity of washer liquid in the tank. If the level of the washer liquid is LOW, add the washer liquid(In cold, winter days) or water. The capacity of the tank is 1.5 liter.**

(3) Horn switch



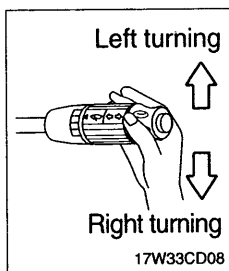
- ① This switch is at the end of right side multifunction switch. On pressing, the horn sounds.

(4) Head light switch



- ① This switch is used to turn the head lights direction.
- ② If release the switch after up position, the switch selects high beam. Then release the switch after upward once more, the switch selects low beam.
- ③ If the switch repeatedly upward and downward to M position from low beam position, it is to flash for passing.
- ④ If high beam is selected, the head light high beam pilot lamp comes ON at the warning indicator.

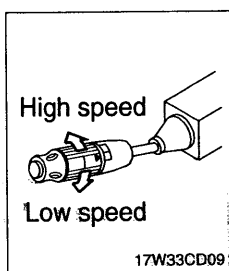
(5) Direction indication lamp switch



- ① This switch is used to warn or signal the turning direction of the machine to other machines or equipment.
- ② Push the lever to forward for turning left, pull the lever to backward for turning right.
- ③ The turning pilot lamp comes ON at the warning indicator.

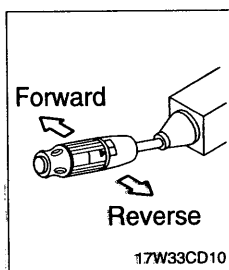
18) LH MULTIFUNCTION SWITCH

(1) Travel speed switch



- ① This switch is for selecting travelling speed between high and low.
 - Low speed : 7.8km/hr(4.9mph)
 - High speed : 30km/hr(18.7mph)

(2) Forward or backward lever



- ① This lever changes travel direction of machine.
 - Forward : Machine moves forward
 - Backward : Machine moves backward

⚠ Travel direction will be reversed if lower structure is positioned with dozer in front.
- ② The warning buzzer sounds when the lever is in the backward position.
- ⚠ If this lever is not in the neutral position, engine does not started.**