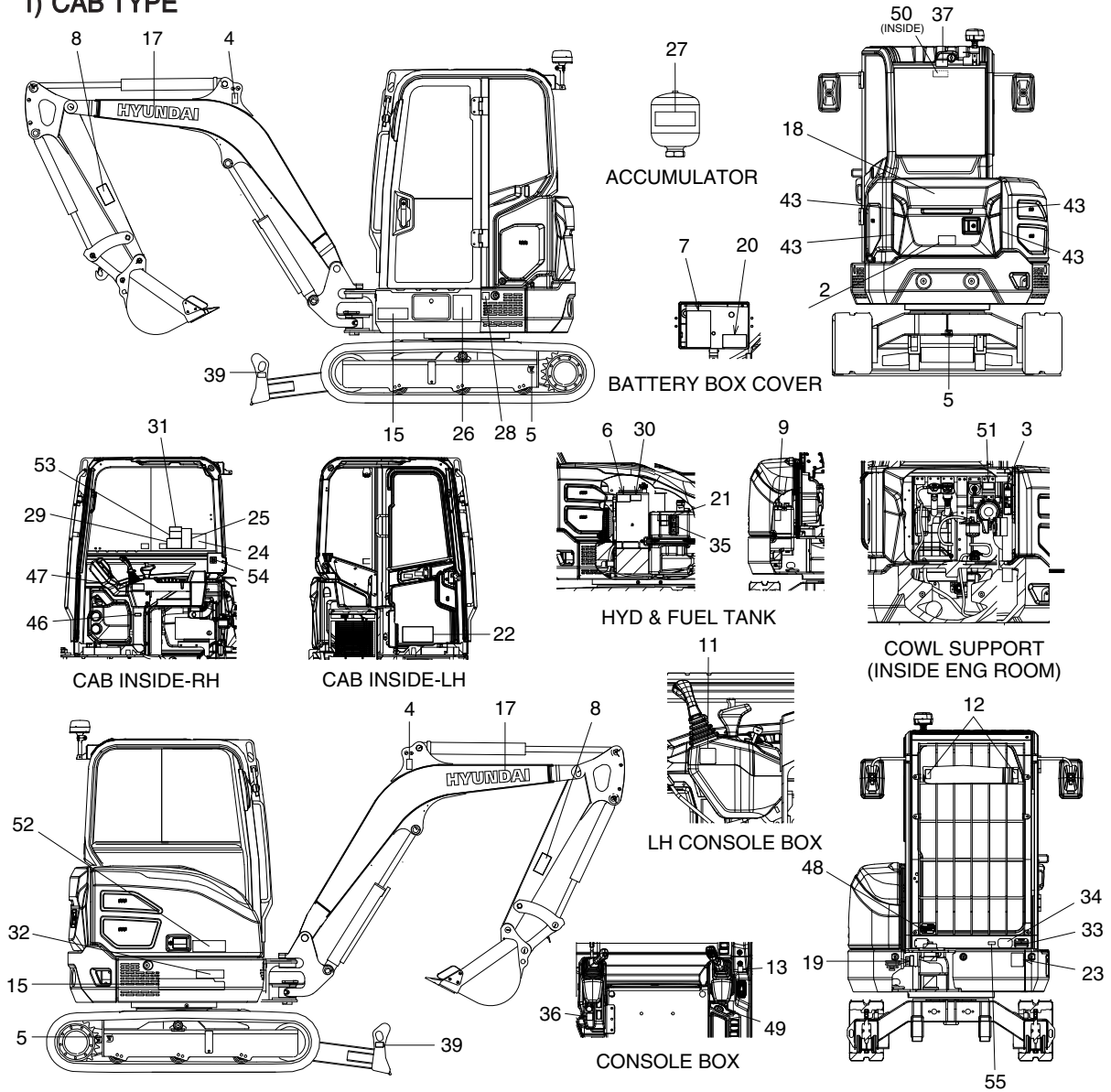


# SAFETY LABELS

## 1. LOCATION

Always keep these labels clean. If they are lost or damaged, attach them again or replace them with a new label.

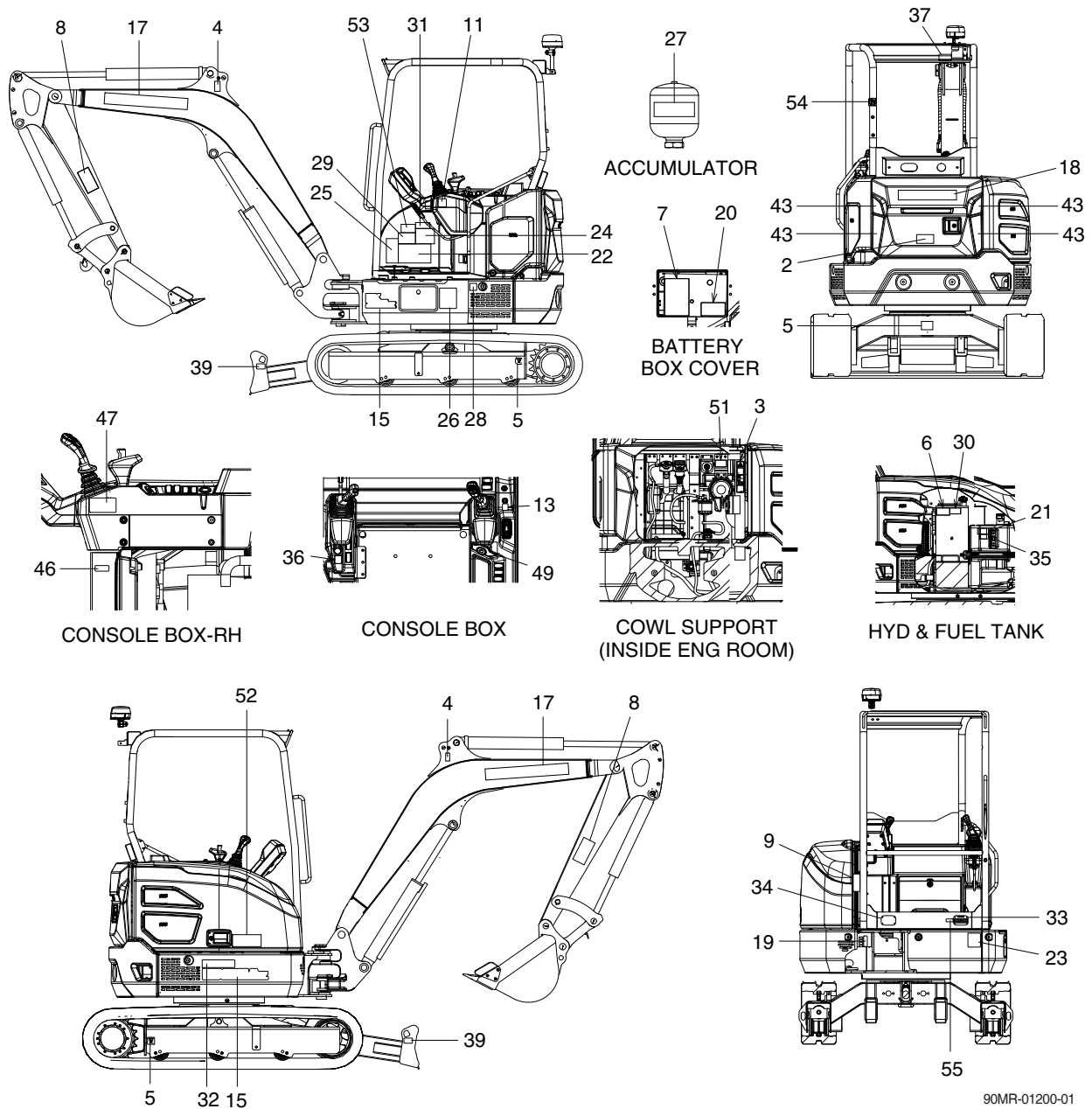
### 1) CAB TYPE



90MR-01100-01

- |    |                            |    |                          |    |                         |
|----|----------------------------|----|--------------------------|----|-------------------------|
| 2  | Keep clear (rear)          | 20 | Electric welding         | 35 | Ultra low sulfur diesel |
| 3  | Engine room caution        | 21 | Fueling                  | 36 | Engine control edeogram |
| 4  | Lifting point              | 22 | Service instruction      | 37 | Beacon lamp             |
| 5  | Tie                        | 23 | Noise level              | 39 | Lifting point/tie down  |
| 6  | High pressure              | 24 | Lifting chart            | 43 | Reflecting-LH/RH        |
| 7  | Battery accident           | 25 | Cabin caution            | 46 | MCU connector           |
| 8  | Keep clear (attach)        | 26 | Pattern change           | 47 | Caution key             |
| 9  | Change way                 | 27 | Accumulator              | 48 | FOG plate               |
| 11 | Console tilting            | 28 | Battery position         | 49 | Key box                 |
| 12 | Front window safety        | 29 | Control ideogram         | 50 | Emergency exit          |
| 13 | Dozer control ideogram     | 30 | Fuel shut off            | 51 | Battery switch          |
| 15 | Model name                 | 31 | Water separator          | 52 | Bio oil                 |
| 17 | Hyundai logo (boom)        | 32 | General caution (cab RH) | 53 | California65 caution    |
| 18 | Hyundai logo (engine hood) | 33 | Name plate               | 54 | Fire extinguisher       |
| 19 | Grease                     | 34 | ROPS plate               | 55 | EMC                     |

## 2) CANOPY TYPE



- |    |                            |    |                         |    |                         |
|----|----------------------------|----|-------------------------|----|-------------------------|
| 2  | Keep clear (rear)          | 20 | Electric welding        | 34 | ROPS plate              |
| 3  | Engine room caution        | 21 | Fueling                 | 35 | Ultra low sulfur diesel |
| 4  | Lifting point              | 22 | Service instruction     | 36 | Engine control ideogram |
| 5  | Tie                        | 23 | Noise level             | 37 | Beacon lamp             |
| 6  | High pressure              | 24 | Lifting chart           | 39 | Lifting point/tie down  |
| 7  | Battery accident           | 25 | General caution (cab)   | 43 | Reflecting-LH/RH        |
| 8  | Keep clear (attach)        | 26 | Pattern change          | 46 | MCU connector           |
| 9  | Change way                 | 27 | Accumulator             | 47 | Caution key             |
| 11 | Console tilting            | 28 | Battery position        | 49 | Key box                 |
| 13 | Dozer control ideogram     | 29 | Control ideogram        | 51 | Battery switch          |
| 15 | Model name                 | 30 | Fuel shut off           | 52 | Bio oil                 |
| 17 | Hyundai logo (boom)        | 31 | Water separator         | 53 | California65 caution    |
| 18 | Hyundai logo (engine hood) | 32 | General caution (frame) | 54 | Fire extinguisher       |
| 19 | Grease                     | 33 | Name plate              | 55 | EMC                     |

90MR-01200-01

## 2. DESCRIPTION

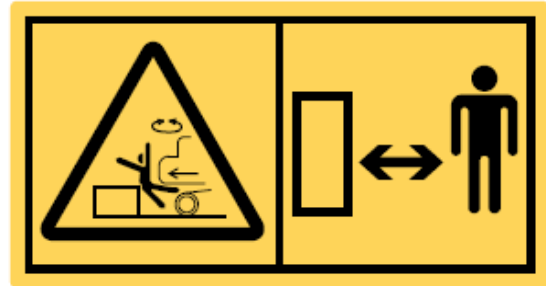
There are labels on this machine please become familiarized with all warning labels and descriptions are based on the cab type.

Replace any safety label that is damaged, or missing.

### 1) KEEP CLEAR (REAR) (item 2)

This label is positioned on the rear side of the engine hood.

- ⚠ To prevent serious personal injury or death keep clear of machine swing radius.
- ⚠ Do not deface or remove this label from the machine.



94MS-07010

### 2) ENGINE ROOM CAUTION (item 3)

This label is positioned on the cowl support of the inside engine room.

- ⚠ Do not open the engine hood while the engine is running.
  - ⚠ Escaping fluid under pressure can penetrate the skin causing serious injury.
  - ※ Study the service manual before service job.
  - ⚠ Never open the filler cap while engine running or at high coolant oil temperature.
  - ⚠ Do not touch turbocharger or it may cause severe burn, while the engine is running or immediately after the engine is shut down.
  - ⚠ Relieve all pressure before disconnecting any hydraulic, coolant or fuel lines etc.
- Study the operator's manual before starting and operating machine.

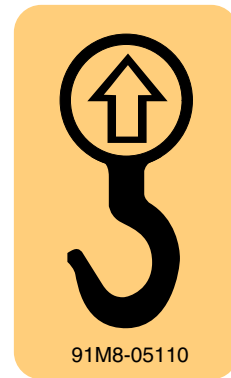


91MJ-07111

### 3) LIFTING POINT (item 4)

This label is positioned on the both sides of the boom.

- ※ In order to lift the machine, attach the lifting devices to the lifting points.

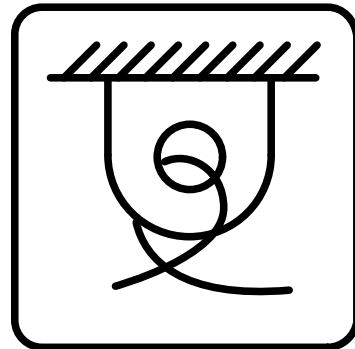


91M8-05110-00

### 4) TIE (item 5)

This label is positioned on the LH, RH and rear sides of the lower frame.

- ※ **Never tow the machine using tie down eyelet as it may break resulting in personal injury or death.**
- ※ See page 4-10 for detail.



91N6-05120

### 5) HIGH PRESSURE (item 6)

This label is positioned on the RH side of the hydraulic tank.

- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury or death.
- ▲ Relieve all pressure before disconnecting any hydraulic, coolant or fuel lines etc.
- ※ See the maintenance section for details.



94K8-01110

## 6) BATTERY ACCIDENT (item 7)

This label is positioned on the battery box cover.

- ⚠ **Electrolyte containing sulfuric acid can cause severe burns. Avoid allowing contact with the skin, eyes or clothes. In the event of accident flush with sufficient water and contact a physician immediately.**

Failure to comply may result in serious injury or death.

- ※ **Maintain the electrolyte at the recommended level. Add distilled water to the battery only when starting up, never when shutting down.**

With electrolyte at proper level, less space may cause the gases to be accumulated in the battery.

- ⚠ **Extinguish all smoking materials and open flames before checking the battery.**
- ⚠ **Do not allow any open flames or excessive heat near or when checking the battery.**
- ⚠ **Do not allow unauthorized personnel to change the battery or to use booster cables.**
- ⚠ **To prevent electric shock, do not touch battery terminal with wet hands.**



91N6-02122

## 7) KEEP CLEAR (ATTACH) (item 8)

This label is positioned on both sides of the arm.

- ⚠ **Serious injury or death can result from a falling attachment.**
- ⚠ **To prevent serious injury or death, do not walk near, under implements or attachments.**

This applies when machine is in use, the implements are suspended in air or while the machine is being worked on.

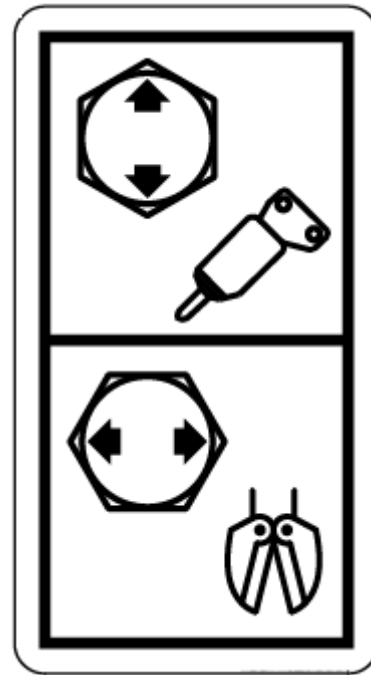


91MJ-06112

**8) CHANGE WAY (item 9)**

This label is positioned on the front side of the hydraulic tank.

※ See page 4-27 for details.

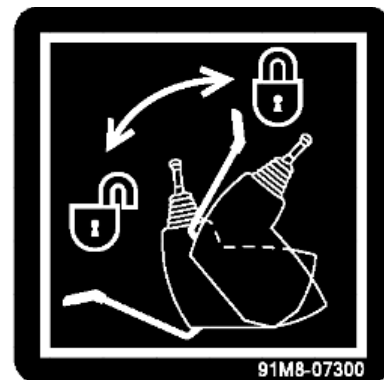


97MK-03111

**9) CONSOLE TILTING (item 11)**

This label is positioned on the left side of the LH console box.

※ Before you get off the machine be sure to tilt the LH console box.



91M8-07300-00

**10) FRONT WINDOW SAFETY (item 12)**

This label is positioned on the LH and RH of the inside front window.

▲ Be careful that the front window may be promptly closed.

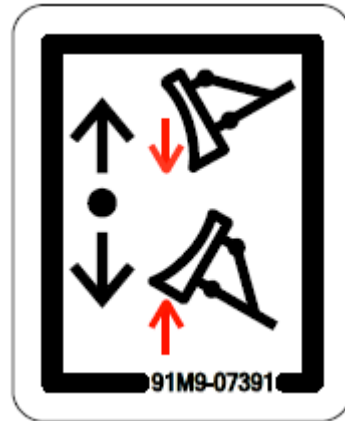


91M8-07251

#### 11) DOZER CONTROL IDEOGRAM (item 13)

This label is positioned on the top side of the RH console box.

- ※ See page 4-7 for details.
- ※ Guidelines for using the general dozer blade.
  - Be careful not to apply an excessive load when using a blade.
  - Avoid impacts and loads on the bottom due to machine modification or excessive working conditions.
  - Check the BLADE UP status before traveling the machine.
  - Avoid any collision with the upper working device and the blade.
  - Do not move machine in the blade jack up state.
  - When using blade jack up, use it in an environment where the ground is not rough and the machine and ground are same level.

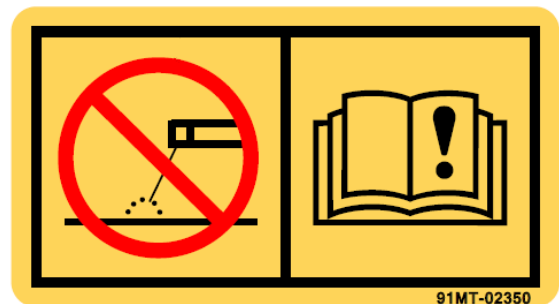


91M9-07391

#### 12) ELECTRIC WELDING (item 20)

This label is positioned on the battery box cover.

- ▲ Before carrying out any electric welding on this machine, follow the below procedure.
  - Pull the connectors out of all electric control units.
  - Connect the ground lead of the welding equipment as close to the welding point as possible.
- ※ Be sure to remove paint where ground will be applied to ensure proper grounding of welder. Once welding is complete, clean and repaint area.
- ※ See page 6-37 for detail.



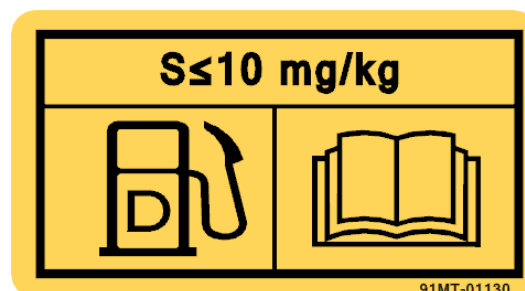
91MT-02350



### 13) FUELING (item 21)

This label is positioned on the right side of the fuel tank.

- ▲ Stop the engine when refueling. Any lights or flames must be kept at a safe distance while refueling.
- ※ Use ultra low sulfur fuel only.
- ※ Ultra low sulfur fuel sulfur content  $\leq 10$  ppm

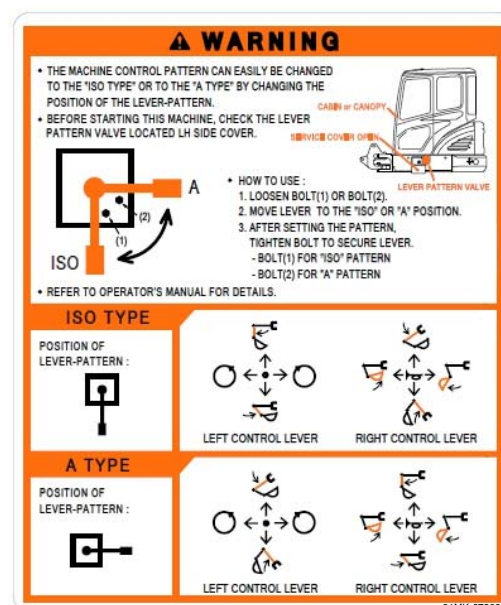


91MT-01130

### 14) PATTERN CHANGE (item 26)

This label is positioned on the LH frame cover.

- ▲ Check the machine control pattern for conformance to the pattern on this label. If not, change label to match pattern before operating machine.
- ▲ Failure to do so could result in serious injury or death.
- ※ See page 4-21 for details.



91MK-07360

### 15) ACCUMULATOR (item 27)

This label is positioned on the accumulator of the solenoid valve.

- ※ The accumulator is filled with high-pressure nitrogen gas, and it is extremely dangerous if it is handled in the wrong way. Always observe the following precautions.
- ▲ Never make any holes in the accumulator or expose it to open flame or fire.
- ▲ Do not weld anything to the accumulator.
- ※ When carrying out disassembly or maintenance of the accumulator, or when disposing of the accumulator. It is necessary to release the gas from the accumulator. A special air bleed valve is necessary for this operation, so please contact your HD Hyundai Construction Equipment distributor.



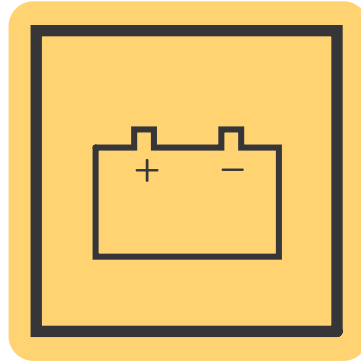
91N6-03201



#### 16) BATTERY POSITION (item 28)

This label is positioned on the LH frame cover.

※ See page 6-35 for the battery handling.



38090FW03

#### 17) CONTROL IDEOGRAM (item 29)

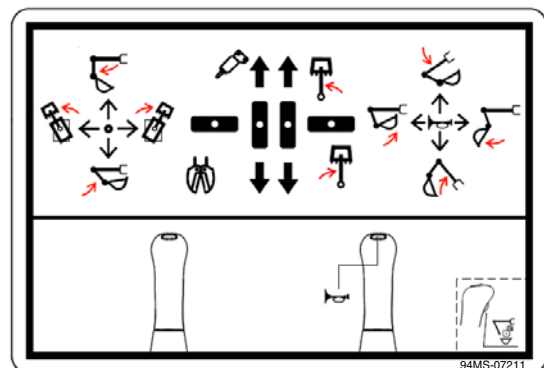
This label is positioned on the right side window of inside the cab.

▲ Always ensure the label matches the control pattern. If it does not, replace label with appropriate control pattern label.

▲ Failure to do so could result in serious injury or death

※ See pages 3-26, 27 and 4-7 for details.

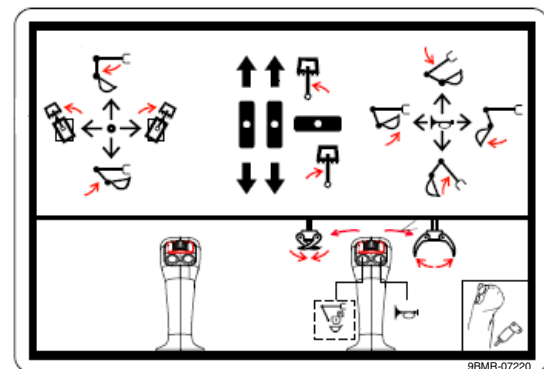
Without proportional



94MS-07211

94MS-07211

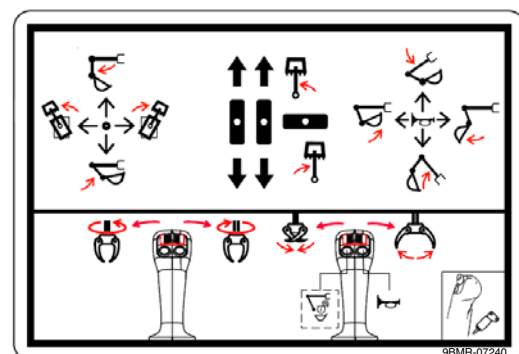
With proportional (2-way)



9BMR-07220

9BMR-07220

With proportional (2-way+rotating)



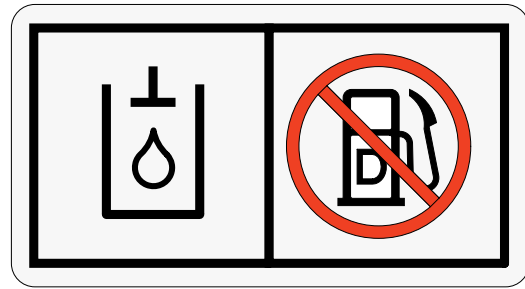
9BMR-07240

9BMR-07240

### 18) FUEL SHUT-OFF (item 30)

This label is positioned on the top of the hydraulic tank.

- ※ Fill only the hydraulic oil.  
Do not fill the diesel fuel.
- ⚠ Relieve tank pressure with the engine off by removing the cap slowly to prevent burns from hot oil.



140WH90FW51

### 19) WATER SEPARATOR (item 31)

This label is positioned on the right side window of inside the cab.

- ※ In order to protect high pressure fuel system, please drain water in water separator before starting the engine.



91Q4-07180

91Q4-07180

### 20) GENERAL CAUTION (FRAME) (item 32)

This label is positioned on the RH frame cover.

- ⚠ Study the operator's manual before transporting the machine, if provided and tie down arm and track to the carrier with lashing wire.
- ※ See page 5-4 for details.
- ⚠ Make sure wire rope is proper size and keep correct hoisting method.
- ※ See page 5-5 for details.
- ⚠ Place the bucket on the ground whenever servicing the hydraulic system.
- ※ Check oil level on the level gauge.
- ※ Refill the recommended hydraulic oil up to specified level if necessary.

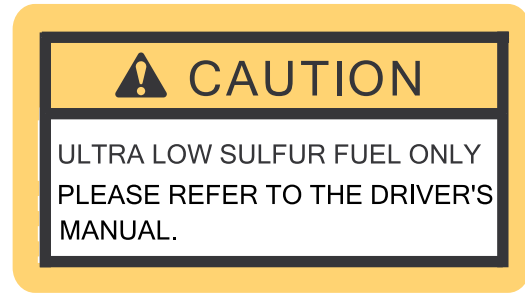


97MK-04100

#### 21) ULTRA LOW SULFUR DIESEL (item 35)

This label is positioned on the right side of the fuel tank.

- ※ Use ultra low sulfur fuel only.
- ※ Ultra low sulfur fuel  
sulfur content  $\leq 10$  ppm
- ※ If ultra low sulfur diesel is not used, the aftertreatment diesel particulate filter can be damaged.

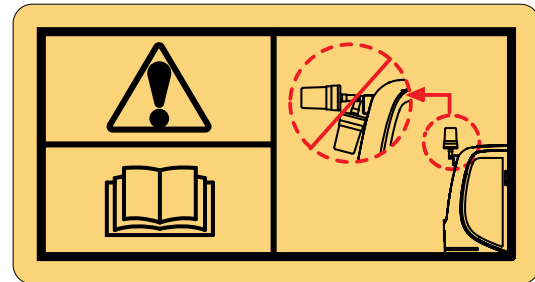


2609A0SL03

#### 22) BEACON LAMP (item 37)

This label is positioned on the rear top outside of the cab.

- ※ Make sure the beacon lamp maintains a vertical position.  
A horizontal position can result in a decrease in life time of the lamp due to the infiltration of foreign substances such as dust or water.
- ※ While the machine transfer, the beacon lamp is easy to break. In the case, change the position of the lamp to the horizontal.

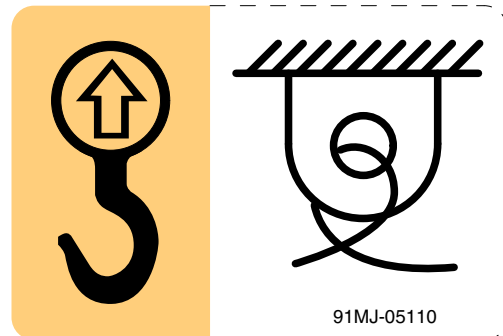


91MK-02221-00

#### 23) LIFTING POINT/TIE DOWN (item 39)

This label is positioned on the LH and RH sides of the dozer blade.

- Lifting point  
In order to lift the machine, attach the lifting devices to the lifting points.
- Tie down  
In order to tie down the machine, attach the tie-downs to the tying points.

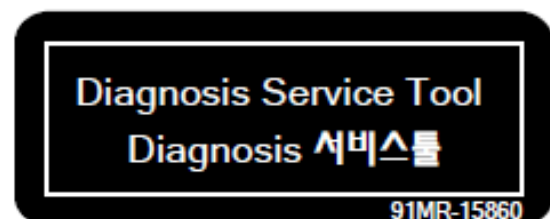


91MJ-05110-00

#### 24) MCU CONNECTOR (item 46)

This label is positioned on the right side of inside the cab.

- ※ MCU communicates the machine data through Laptop computer through RS232 service socket.

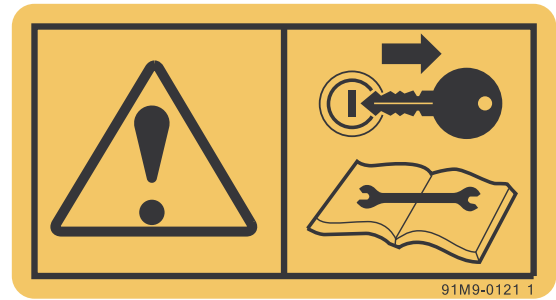


91MR-15860

## 25) CAUTION KEY (item 47)

This label is positioned on the left side of the RH console box.

- ▲ **Park on a flat place and stop the engine for inspecting and repairing. Properly TAG machine is not operational. (remove start key)**
- ※ **Extreme care shall be taken during maintenance work.**



91M9-01211-00

## 26) EMERGENCY EXIT (item 50)

This label is positioned on the rear window of inside the cab.

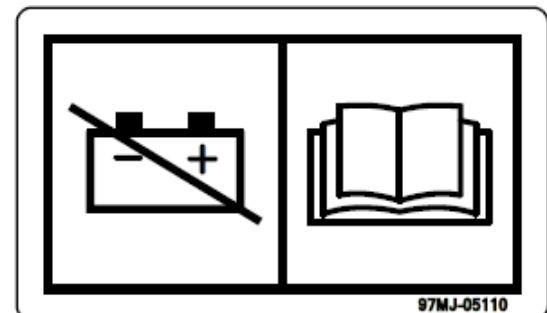
- ※ **The rear window serves as an alternate exit.**
- ※ **To remove rear window, pull the ring and push out the glass.**



94MT-07280

## 27) BATTERY SWITCH (item 51)

This label is positioned on the the cowl support of inside engine room..

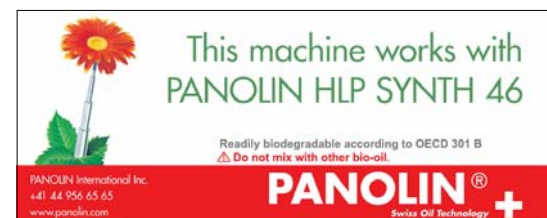


97MJ-05110

## 28) BIO OIL (item 52)

This label is positioned on the RH side cover.

- ※ **This machine works with PANOLIN HLP SYNTH 46.**
- ※ **Readily biodegradable according to OECD 301 B.**
- ▲ **Do not mix with other bio-oil.**



94MJ-99110

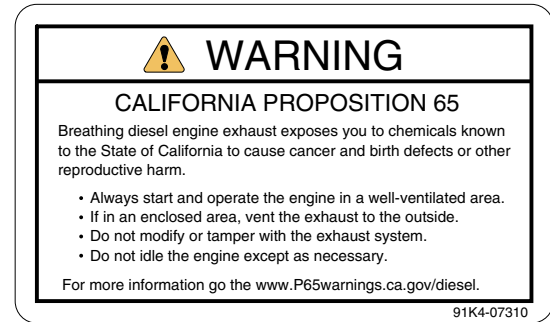
### 29) CALIFORNIA65 CAUTION (item 53)

This label is positioned on the right side window of inside the cab.

**⚠ Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.**

- (1) Always start and operate the engine in a well-ventilated area.
- (2) If in an enclosed area, vent the exhaust to the outside.
- (3) Do not modify or tamper with the exhaust system.
- (4) Do not idle the engine except as necessary.

※ **For more information go to [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel).**



91K4-07310

### 30) FIRE EXTINGUISHER (item 54)

This label is positioned on the right side of inside the cab.

※ **Read and understand the instructions label on the fire extinguisher.**



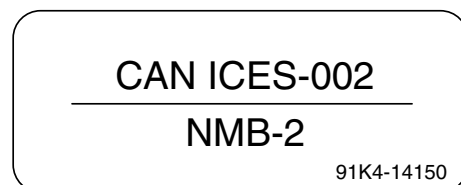
9BM7-70291

### 31) EMC (item 55)

This label is positioned on the front side of outside the cab.

※ **This machine complies with the EMC directive ICES-002.**

※ **EMC : ElectroMagntic Compatibility**



91K4-14150