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# OPERATOR'S MANUAL

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## CRAWLER EXCAVATOR

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**E80B**  
**TIER 3**

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READ, UNDERSTAND, AND FOLLOW ALL SAFETY PRECAUTIONS AND INSTRUCTIONS FOUND IN THIS MANUAL BEFORE OPERATING THE MACHINE.

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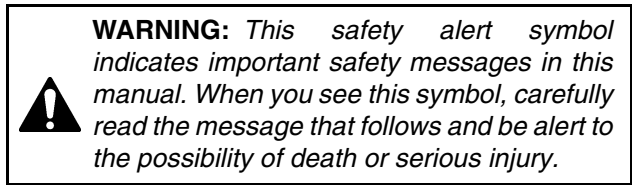
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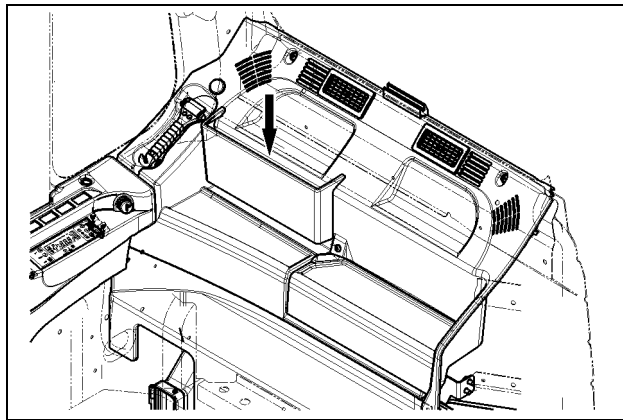
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## SAFETY RULES



M171C

Most accidents involving machine operating and maintenance can be avoided by following basic safety rules and precautions. Read and understand all the safety messages in this manual, the safety manual and the safety signs on the machine before you operate or service the machine. See your dealer if you have any questions.



BS08B164

Figure 1

### OPERATOR'S MANUAL STORAGE SPACE

**READ THIS MANUAL COMPLETELY** and make sure you understand the controls. All equipment has a limit. Make sure you understand the speed, brakes, steering, stability, and load characteristics of this machine before you start to operate this machine.

**DO NOT** remove this manual or the safety manual from the machine. See your dealer for additional manuals. Also see the manual information on the Title pages (first and second pages in front of the Table of Contents) of this manual.

The safety information given in this manual does not replace safety codes, insurance needs, federal, state, or local laws. Make sure that your machine has the correct equipment according to these rules or laws.




Additional safety messages are used in the text of the manual to show specific safety hazards.

**IMPORTANT:** *The safety messages in this chapter point out conditions which can happen during the normal operation and maintenance of your machine. These safety messages also give possible ways of dealing with these conditions.*

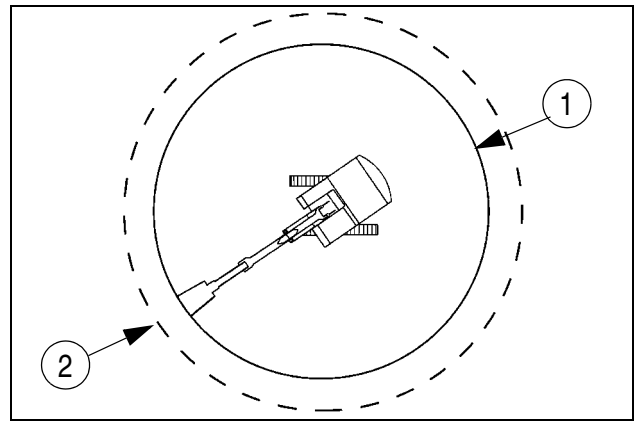
## PERSONAL SAFETY

If Safety Decals on this machine are ISO two panel Pictorial, decals are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW

Prohibition symbols such as   and  if used, are RED.

## SAFETY AREA



BC02N198

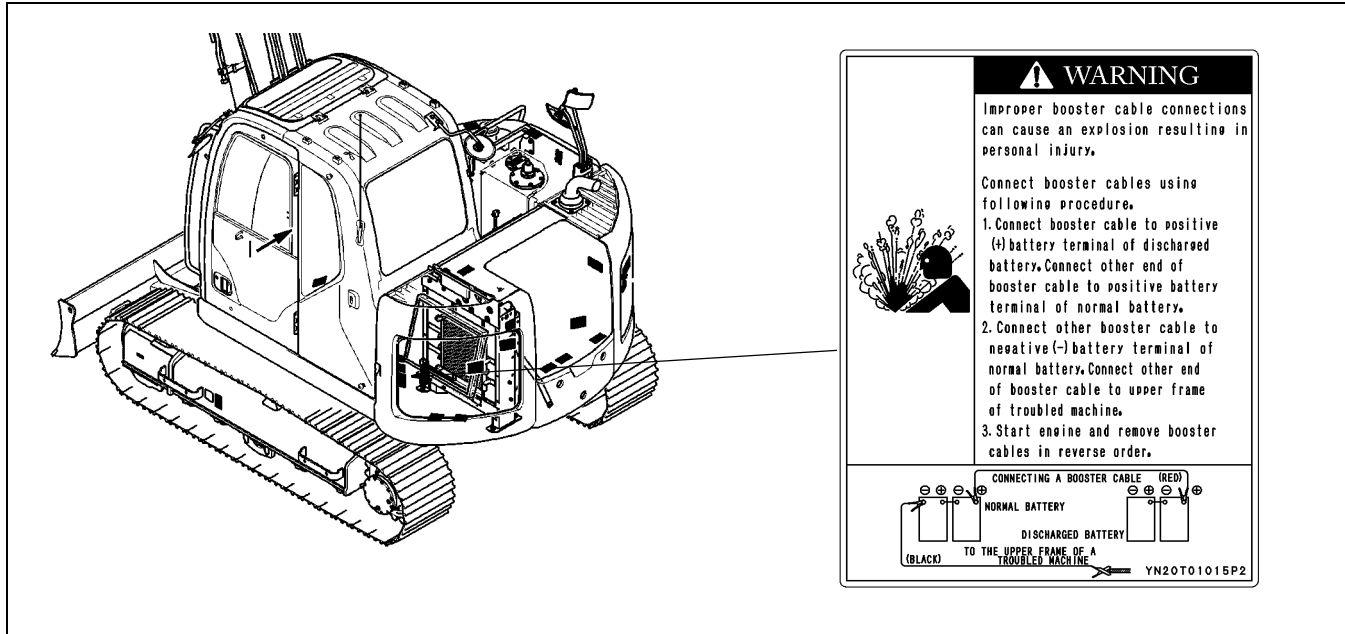
Figure 2

1. WORKING AREA
2. SAFETY AREA

The safety area is the space necessary for the machine to operate at the maximum range of the tool. The area is a full 360° swing plus 6 feet (2 meters).

**BOOSTER CABLE - WARNING**

Located on battery relay cover - Part Number YN20T01015P2

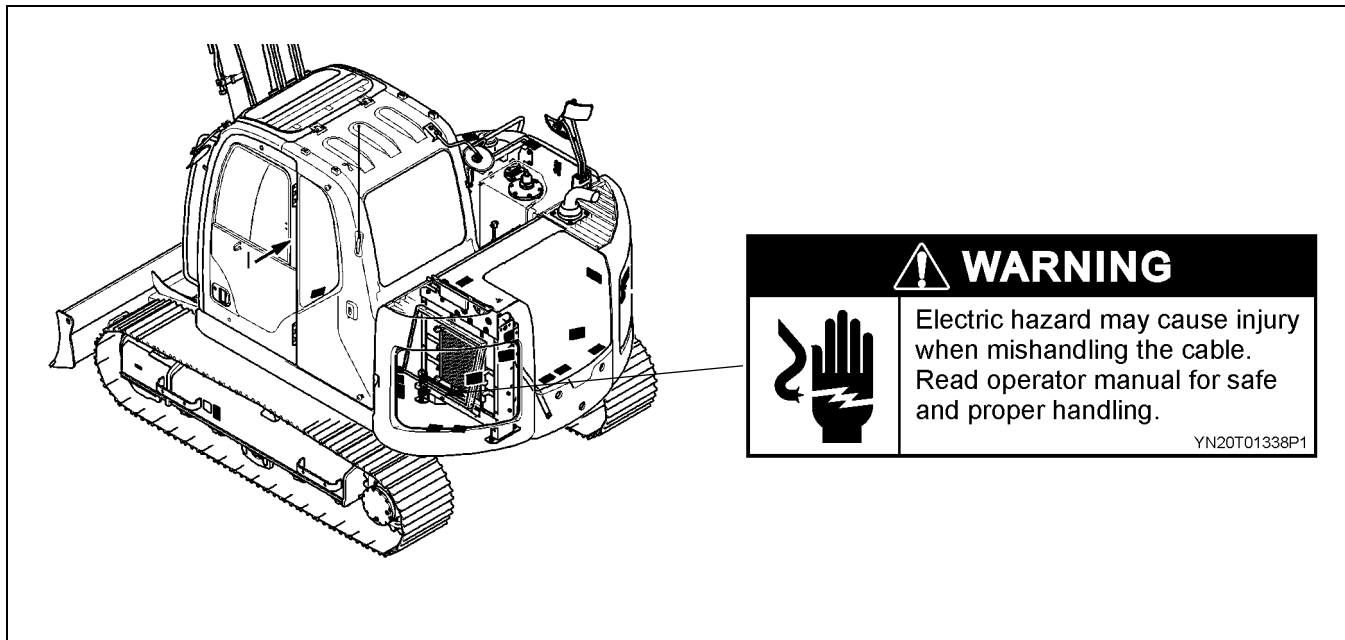


BS08C420/YN20T01015P2

Figure 11

**BOOSTER CABLE - WARNING**

Located on battery relay cover - Part Number YN20T01338P1

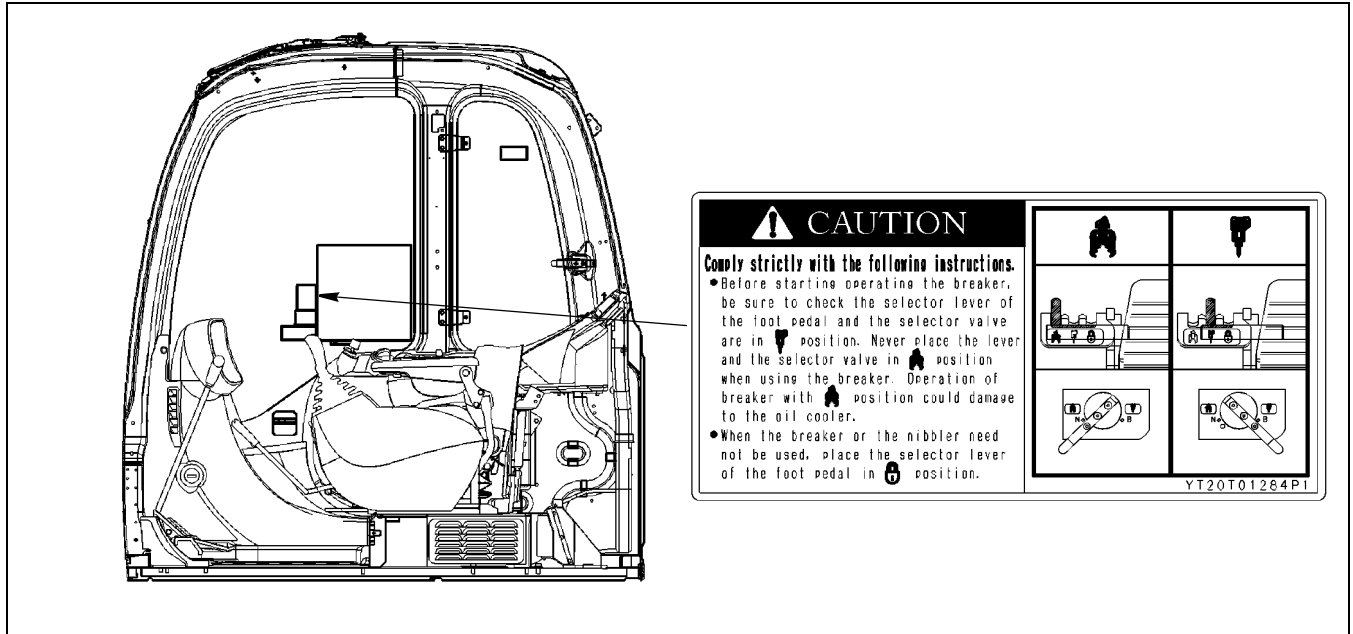


BS08C420/YN20T01338P1

Figure 12

**HANDLING CHANGE LEVER AND SELECTOR VALVE - CAUTION**

Located inside cab right hand side - Part Number YT20T01284P1

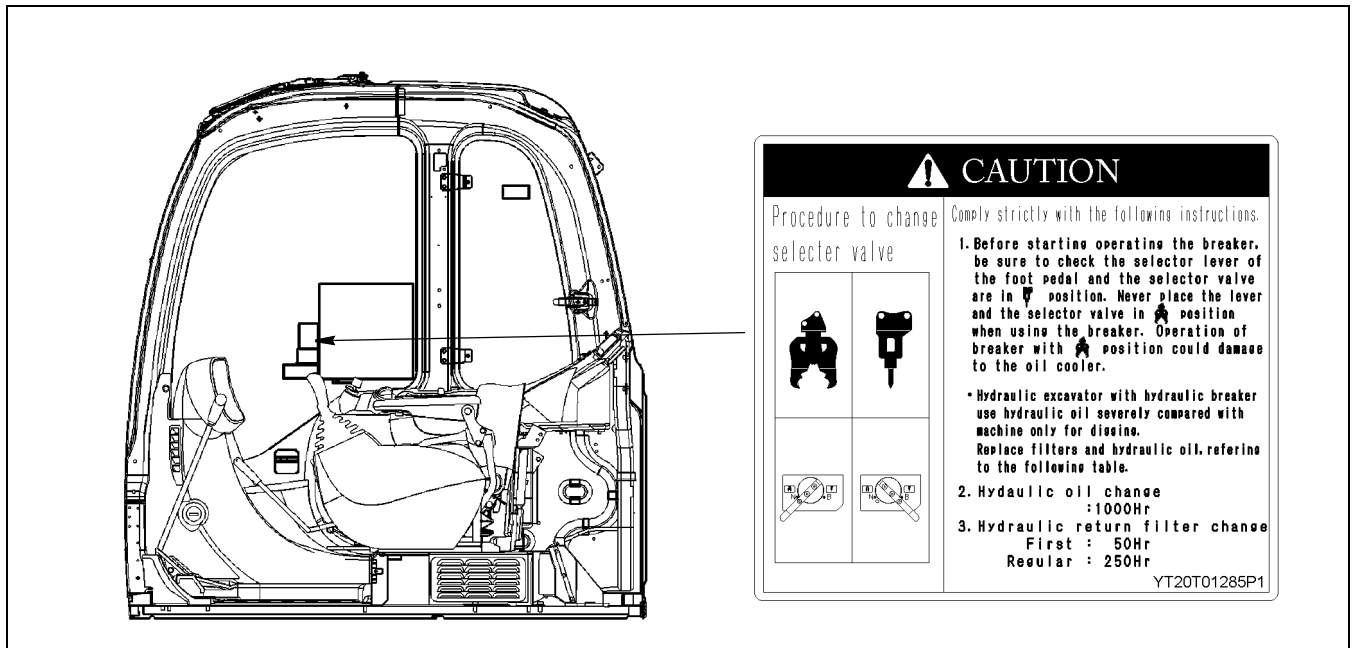


BS08B1677/YT20T01284P1

Figure 30

**CHANGE SELECTOR VALVE (NIBBLER AND BREAKER OPTION) - CAUTION**

Located inside cab right hand side - Part Number YN20T01285P1

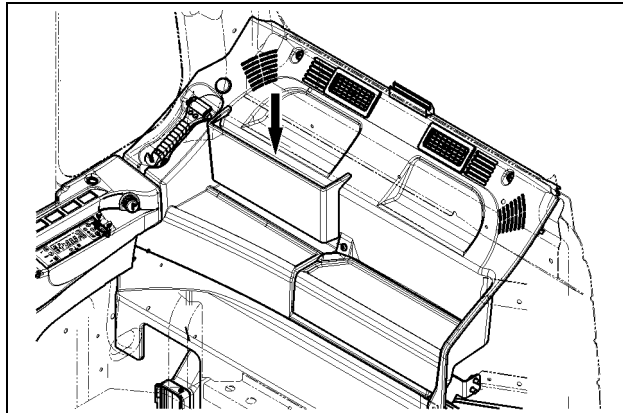


BS08B1677/YT20T01285P1

Figure 31

**OPERATOR CAB AND CONTROLS**

**DOCUMENT POUCH**



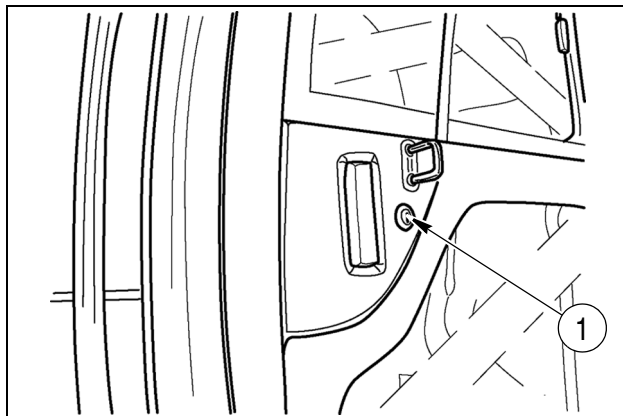
BS08B164

Figure 1

**DOCUMENT POUCH**

The Operator and Parts Manual storage compartment is a pouch located to the right rear of the operator's seat. Keep the Operator and Parts Manual for this machine in this location at all times for quick, easy reference.

**LOCKING/UNLOCKING CAB DOOR**



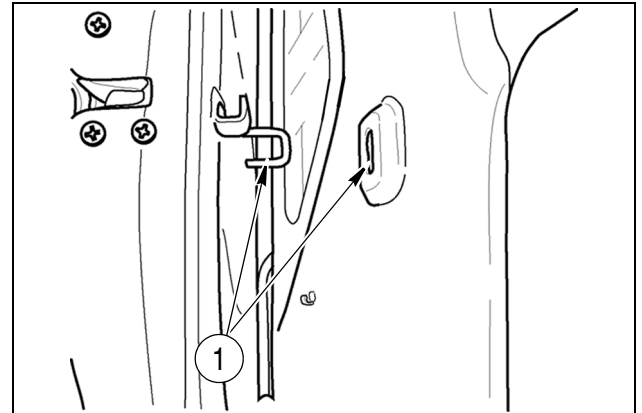
DC04D503

Figure 2

**1. DOOR LOCK**

Use the ignition key to lock or unlock cab door. Insert key into door lock and turn clockwise to unlock or turn counterclockwise to lock cab door.

**CAB DOOR LATCH**



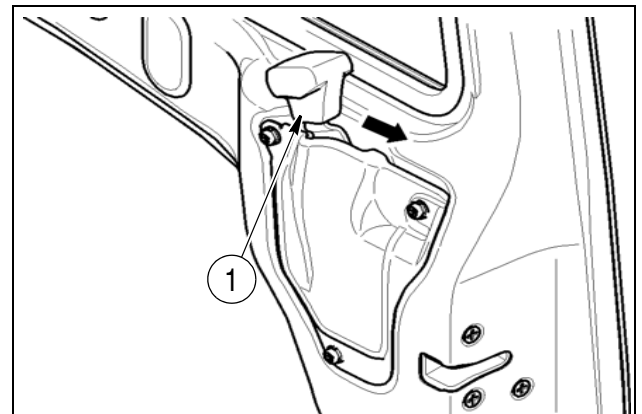
DC04D504

Figure 3

**1. DOOR LATCH**

1. The cab door can be latched in an open position by opening door until it is locked open by the door latch (1) located on the cab.
2. Release door latch by pushing release lever down to release door from latch.

**WARNING:** Never use the lever for door latch release as a handle to mount and/or dismount from the machine.



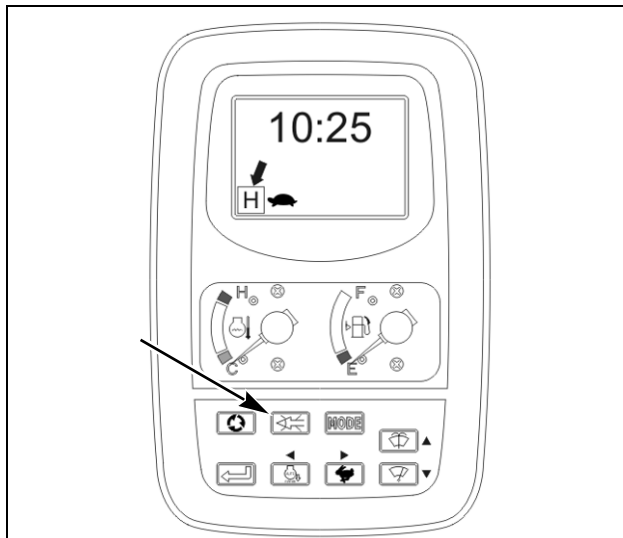
DC04D506

Figure 4

**1. PUSH RELEASE LEVER**

3. Push release lever located inside the door, and door opens from the inside of cab.

### Buzzer Stop Switch

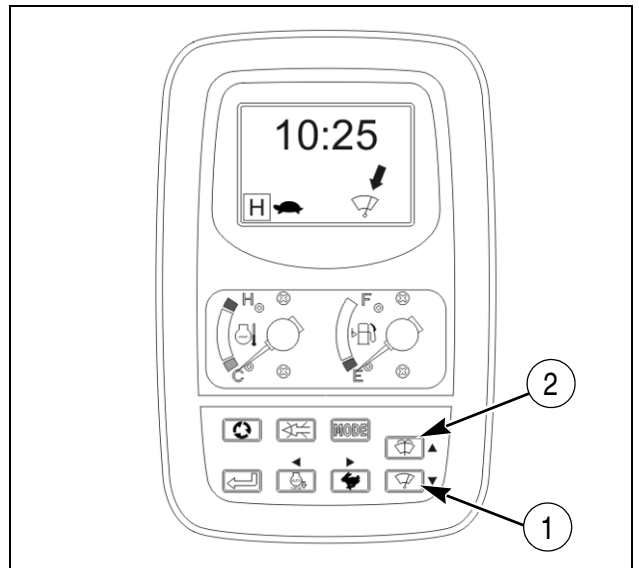


BS06H065

Figure 22

When a warning is displayed on the monitor, press the buzzer stop switch and the buzzer sound will stop. If the engine coolant temperature is too high, or various sensors of mechatro controller (self-diagnosis) fail, the alarm sounds intermittently, and can not be stopped.

### Windshield Wiper & Washer Switch



BS06H066

Figure 23

#### Wiper Switch

- Press it once - Wiper moves intermittently.
- Press it again - Wiper moves continuously.
- Press it once more - Wiper stops moving.

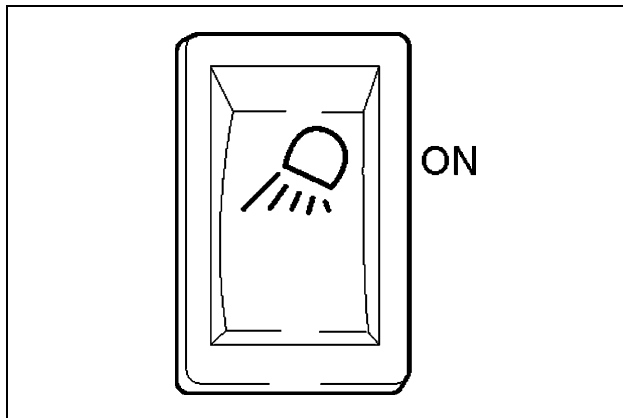
#### Washer Switch

Press this switch, and washer fluid is sprayed while it is depressed.

The washer fluid reservoir is located back of floor plate in cab.

**IMPORTANT:** Make certain the Washer Reservoir has washer fluid before operating washer. Operating washer without fluid can damage the washer fluid motor.

### Work Light Switch

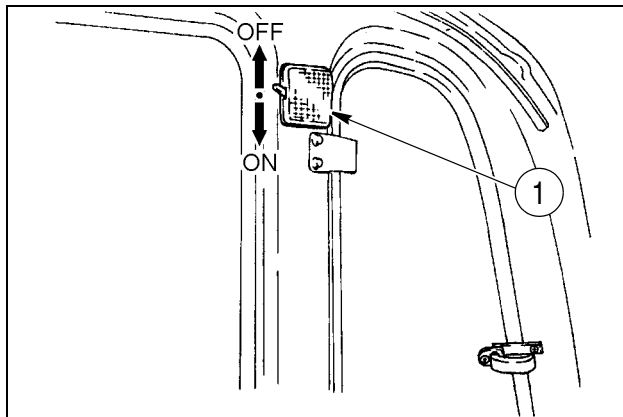


BS08B185

Figure 31

Press the switch and the work lights on the boom (left) and deck (right) will illuminate. Press the bottom of the switch and the lights will turn off.

### CAB DOME LIGHT



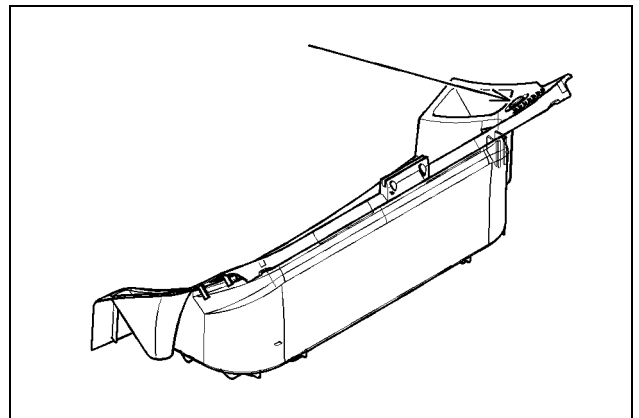
BS06H100

Figure 32

#### 1. CAB DOME LIGHT

1. Turn Cab Dome Light "ON" by pushing the Dome Light Switch downward.
2. Turn "OFF" by pushing switch all the way up.
3. Place Dome Light Switch in the "CENTER" position and the light will be operated by the door switch. When door is opened the light will come "ON" and when the door is closed the light will turn "OFF".

### 12 VOLT POWER SUPPLY

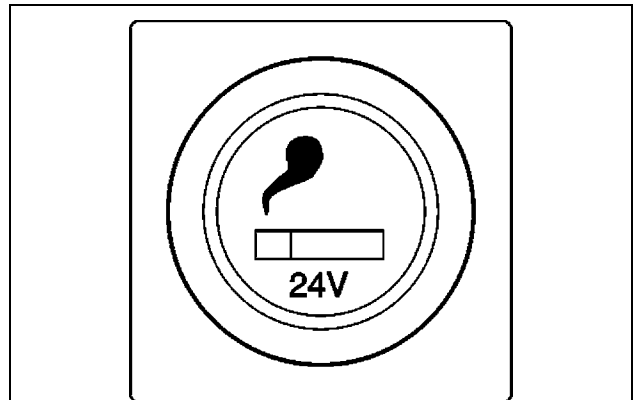


BS08B253

Figure 33

The 12 volt power supply is located beside the rear side cover. Remove the cover from the power supply and insert a 12 volt male socket. Replace cover after use.

### CIGARETTE LIGHTER



BS08B252

Figure 34

The cigarette lighter is located on the right wall of the cab. **Do not** use the cigarette lighter as a power supply for 12 volt accessories. It is a 24 volt outlet.

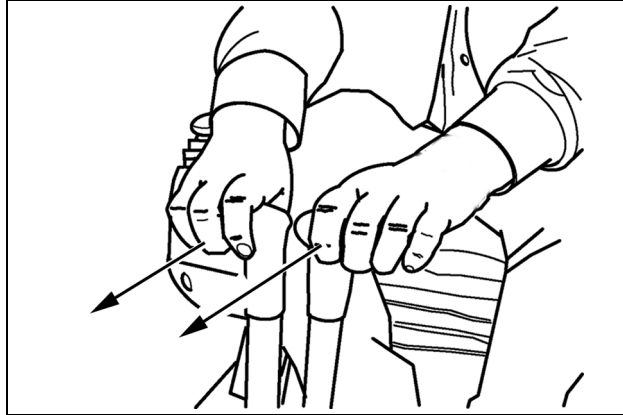
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**MACHINE TRAVEL CONTROLS**

This machine incorporates several travel controls for the convenience of the operator. Each track can be operated independently to turn the machine or simultaneously counter rotate the machine or to travel straight.

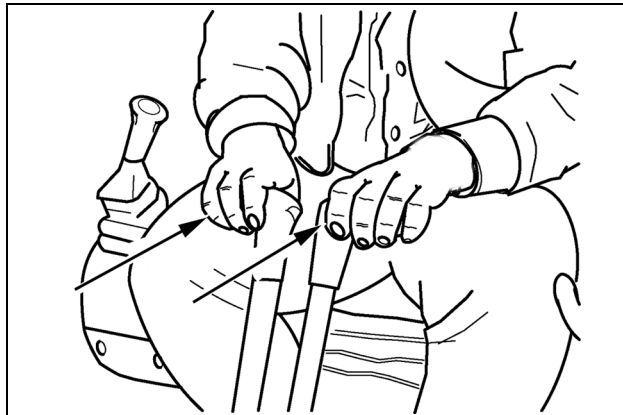
**OPERATING BOTH TRAVEL LEVERS TOGETHER**



DC04D477 Figure 11

With the travel motors positioned behind the cab:

- a. Push both travel levers or press the pedals toward front of machine and machine will travel **FORWARD**.



DC04D478 Figure 12

- b. Pull both travel levers or press the pedals toward operator seat and machine will travel in **REVERSE**.
- c. Return both travel levers to NEUTRAL (center) position and machine will stop travelling.

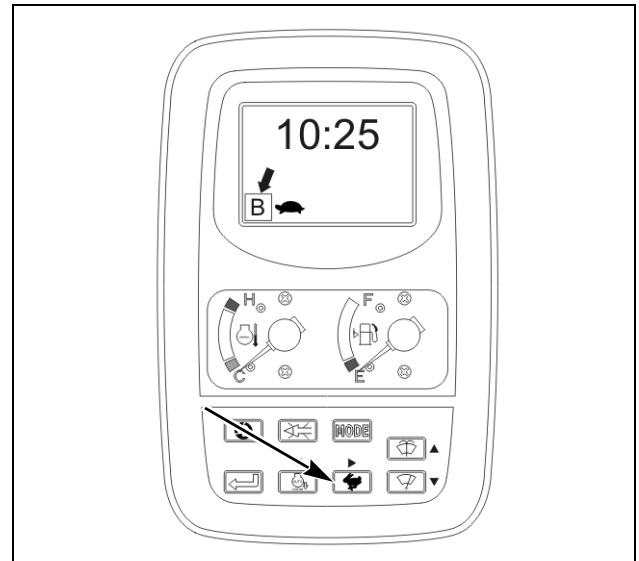
**NOTE:** The distance the travel levers are pushed or pulled determines travel speed of the machine.

**EXAMPLE:**

Travel levers are pulled or pushed to full stroke - machine will travel at top speed.

Travel levers are pulled or pushed to mid position - machine will travel at 1/2 speed.

**TRAVEL SPEED SELECT SWITCH**



BS06H082 Figure 13

For fast travel speed, depress and release the travel speed select switch once before operating the travel controls. This puts the travel motors in **FAST** travel speed and the lamp for FAST on the gauge cluster display will illuminate.

To return to **SLOW** travel speed, stop travel and depress and release travel speed select switch once.

**IMPORTANT:** Use FAST travel speed on firm, level surfaces only. Do not travel continuously for more than two hours. Stop for a period of 10 minutes at low idle speed before resuming travel.

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4. Make certain that the engine coolant mixture is sufficient to keep the machine safe.
5. If the machine becomes overheated, idle the machine to help cool the engine, turn engine OFF and check coolant level. If after filling to proper level the machine continues to overheat, stop engine, allow to cool, drain and flush entire cooling system and refill with the proper mixture of fresh, clean coolant.



**WARNING:** *Do not drain the cooling system when the engine is hot. Allow time to cool all engine parts. Failure to comply could result in injury or death.*

6. Check the battery electrolyte (acid) level frequently and fill as necessary with distilled water.
7. Keep a close watch on the gauges for warning icons during operation. Avoid unnecessary low speed running of the engine during operation.

#### **OPERATION IN HIGH ALTITUDES**

1. Due to low atmospheric pressure at high altitudes, a decrease in engine power will be experienced. Be aware of this fact when placing machine under heavy load in high altitudes climates.
2. Keep close watch on the engine temperature gauge to avoid overheating of the engine.

#### **OPERATION IN SANDY AND DUSTY AREAS**

1. Check the engine air cleaner elements frequently in sandy or dusty conditions.
2. When air cleaner restriction lamp illuminates, change filters immediately regardless of time intervals.
3. Service fuel filter, water separator, engine oil and filters, and all hydraulic filters frequently.
4. Keep the radiator, oil cooler, inter-cooler, and air conditioning condenser clean.

#### **OPERATION AT SEASHORE OR SALTY CLIMATE**

1. Thoroughly wash machine daily to help avoid corrosion of machined areas, electrical components and cylinder rods.
2. Frequently check all mounting hardware for proper tightness. Torque to proper value to aid in preventing salt from entering the machine systems.

#### **OPERATION IN HUMID CLIMATE**

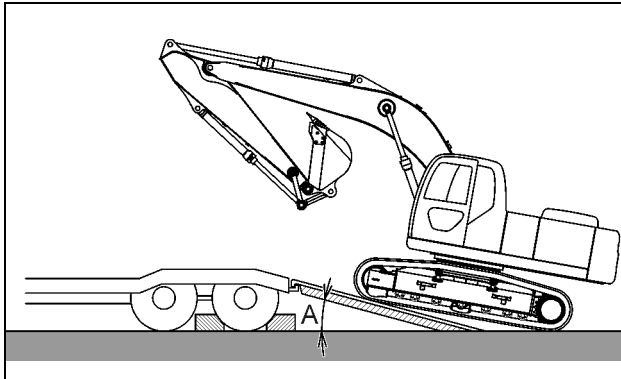
1. In climates with high humidity, thoroughly wash the machine daily and coat all bare surfaces with an oil based lubricant to help prevent corrosion.
2. Operate the A/C with the cab doors and windows closed.

#### **LONGER UNDERCARRIAGE LIFE**

Undercarriage life varies upon the operation method. Use the following guides to increase the life of the machine's undercarriage.

1. Select the track shoe that best suits the machine's application. If in doubt, consult with your dealer when selecting track shoes.
2. Do not allow the tracks to slip during operation. If this occurs, reduce load until slipping stops.
3. Avoid sudden starts, accelerations, abrupt speed changes, high speeds on rough terrains, sharp turns, and sudden stops.
4. Always operate machine in straight lines whenever possible. Avoid short radius when turning. Make turns with the largest possible radius.
5. Prior to operation, clear boulders and obstacles to prevent damage to track shoes.
6. Always operate machine parallel to the incline of the slope. Operating machine across the incline of the slope will not only shorten the machine's undercarriage life, but the machine could unexpectedly slide down hill, and/or roll over.
7. Do not force the machine to carry out work that exceeds its working capability.
8. It is very important that inspections and maintenance schedules be followed as indicated in the Maintenance Section. Work conditions may require these scheduled times to be significantly shorter.
9. DO NOT OPERATE machine with loose track shoes, and maintain proper track tension adjustment at all times during operation.

**LOADING THE MACHINE**



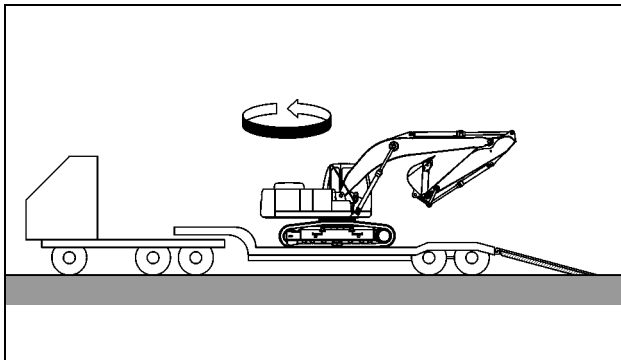
BS08B335

Figure 68



**WARNING:** Never attempt to load or unload machine without ramps. Failure to comply could result in injury or death.

- a. Apply parking brakes on tractor and trailer and chock trailer wheels before attempting to load or unload machine.
- b. Lower ramps of trailer.
- c. Start the machine.
- d. Set travel speed to LOW - 1st speed.
- e. Move throttle control to low idle position.
- f. Raise the attachment and slowly move machine up trailer ramps and over rear axles of trailer.
- g. Slowly move machine completely onto trailer until in proper transport position.



BS08B336

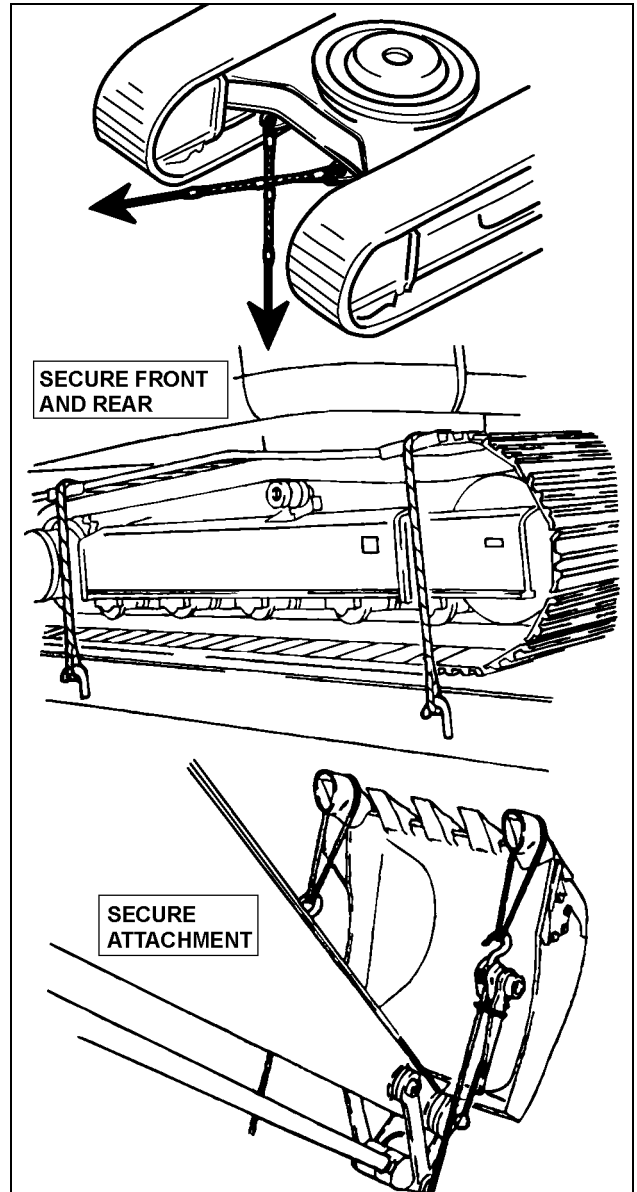
Figure 69

- h. Slowly swing machine 180° until attachment is toward rear of trailer.
- i. Slowly lower boom until attachment rests on trailer bed.
- j. Do not have bucket and arm cylinder at full stroke during transport as this may cause damage to cylinders.
- k. Place hydraulic function cancellation lever in the LOCKED (up) position.
- l. Turn machine OFF, remove key and lock all doors, filler caps and access panels.

**IMPORTANT:** Place a cover over the exhaust pipe of the machine and secure to avoid water entering the engine.

**SECURING MACHINE TO TRAILER**

Once the machine is loaded and secured to the trailer, make certain the tie down fastening cables/straps are of sufficient strength to hold the machine. Make certain height and weight regulations are met.



DC04D581

Figure 70

Use cable or wire rope with sufficient capacity to secure front and rear of the machine to trailer. Chock the tracks, use the lower frame front and rear brackets to secure machine to trailer. Also, make sure to secure front and rear of each track.

Securely fasten all loose parts, as well as removed parts from the machine to the trailer or transporting platform.

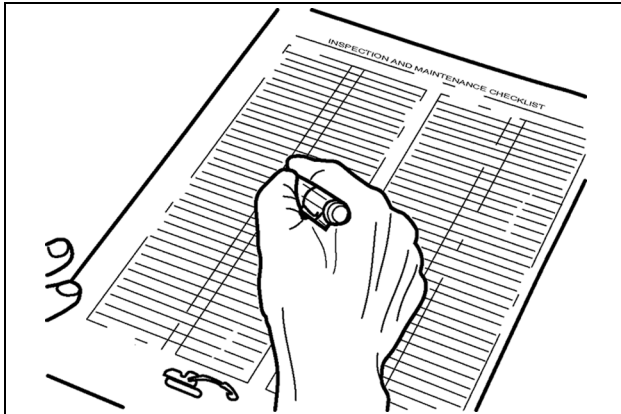
## GENERAL INFORMATION



**WARNING:** Read, understand and follow all safety precautions contained in this manual before performing any inspection or maintenance procedures on this machine, its system or components. Failure to comply could result in injury or death.



**WARNING:** Wear goggles, safety shoes, hard hat, work clothes and work gloves to perform inspection and maintenance on this machine. Failure to comply could result in injury or death.



DC04B668

Figure 1

1. It is recommended that an inspection and maintenance schedule be developed and maintained on a regular basis for this machine. Developing and maintaining such a schedule helps to keep the machine in optimum operating condition.
2. The information contained in this section gives the proper procedures for performing inspection and maintenance functions for this machine. Use these procedures when performing inspection and maintenance as a guide. Also, refer to the inspection and maintenance charts for general service interval recommendations. If you doubt your ability to perform these tasks, contact your dealer for assistance.

**NOTE:** The inspection and maintenance charts provided in this section give only general time intervals. It may be necessary to develop a custom schedule to perform machine maintenance at more frequent intervals based on the work conditions.

3. Use only oils, fluids, lubricants, filters and replacement parts supplied by your authorized dealer to keep machine in optimum operating condition.

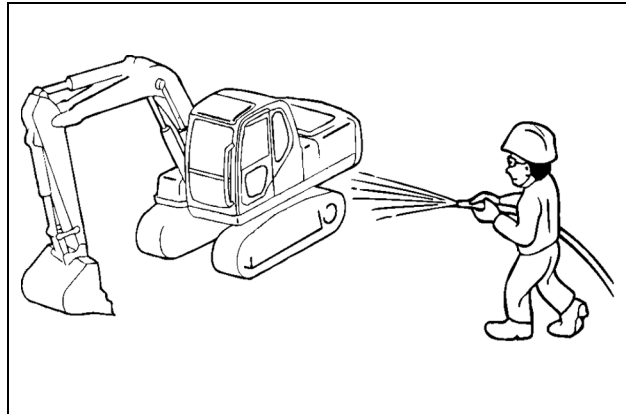
## GENERAL SAFETY

## DISPOSAL OF HAZARDOUS WASTE

Dispose of waste oils, fluids, lubricants, filters, and other hazardous waste properly.

**IMPORTANT:** Dispose of all hazardous waste in accordance with government environmental regulations, laws, and codes.

## KEEP MACHINE CLEAN

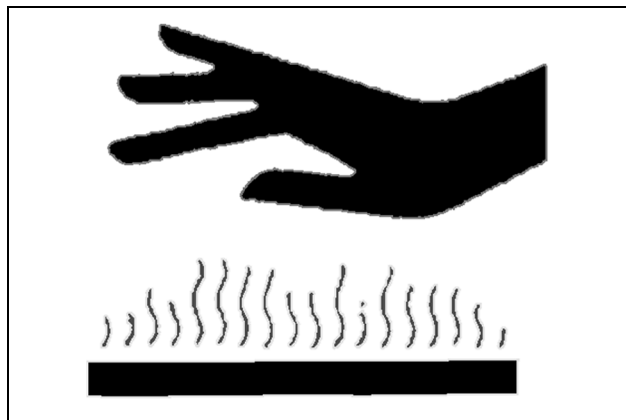


DC04B669

Figure 2

Thoroughly clean machine before performing inspection and maintenance procedures. It is easier and safer to locate problems, perform maintenance and also reduce risk of hydraulic system contamination when machine is clean.

## HOT SURFACE &amp; FLUIDS

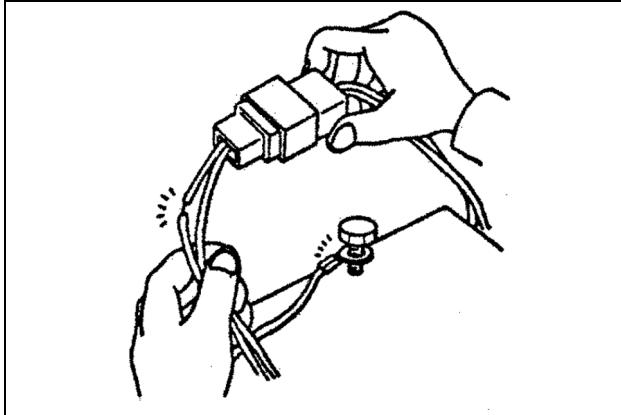


DC04B670

Figure 3

Use caution and wear the proper safety equipment when working around hot areas. Never change oils, engine coolant or filters immediately after a machine has been stopped. Allow machine to cool down before performing maintenance procedure.

## ENGINE ELECTRICAL



DC04C292

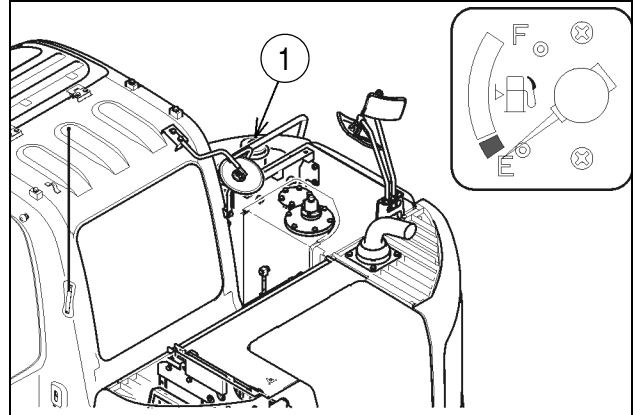
Figure 18

1. Visually and manually inspect all engine electrical wiring, connectors and components for signs of damage and malfunction.
2. Repair or replace all damaged or malfunctioning wiring, connectors and components before resuming operation of the machine.



**WARNING:** *Operating the machine with damaged or malfunctioning electrical components can cause serious damage to the machine and serious injury to personnel. Repair or replace faulty components immediately.*

## FUEL LEVEL

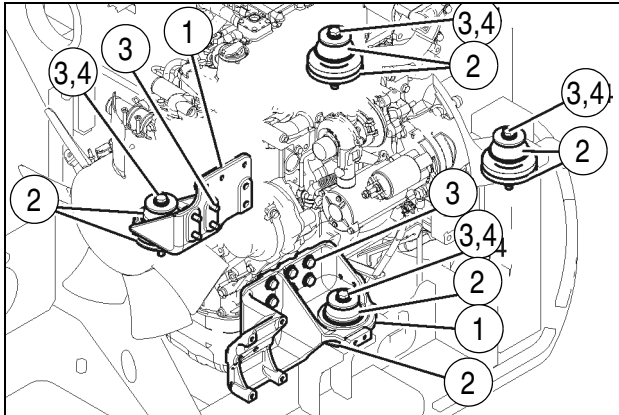


BS08C438

Figure 19

## 1. FUEL TANK CAP

1. Turn the ignition switch key ON and the fuel gauge in the cluster will indicate the fuel tank level.
2. To refuel the machine, remove the fuel tank cap. Do not remove the fuel screen (if equipped) for fueling. Refill fuel tank to full mark to reduce air volume (condensation). Failure to do so could create problems such as rusting and fuel freezing, as well as other associated problems.

**100 HOUR MAINTENANCE****ENGINE MOUNT BRACKET**

BS08B440

Figure 43

Check the engine mounting bracket when the hour meter registers 100 hours and every 100 hours thereafter.

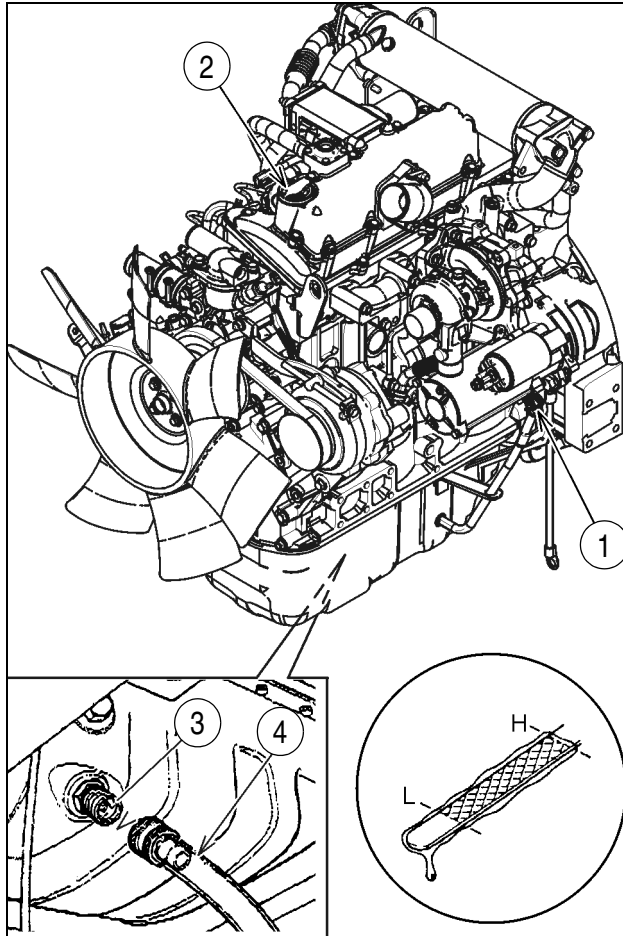
If there is any damage or deterioration to bracket (1) or the rubber mount (2), contact your authorized dealer.

If there is no visible damage, check the torque of bolts (3 and 4), tightening to specifications. Bolt torques for the machine can be found in Chapter 8 - Specifications.

**ENGINE MAINTENANCE**

The intake and exhaust manifold, the oil pan, and components, along with the turbo charger for this machine should be checked by your authorized dealer when the machine registers 100 hours on the hour meter.

CHANGE ENGINE OIL AND FILTER



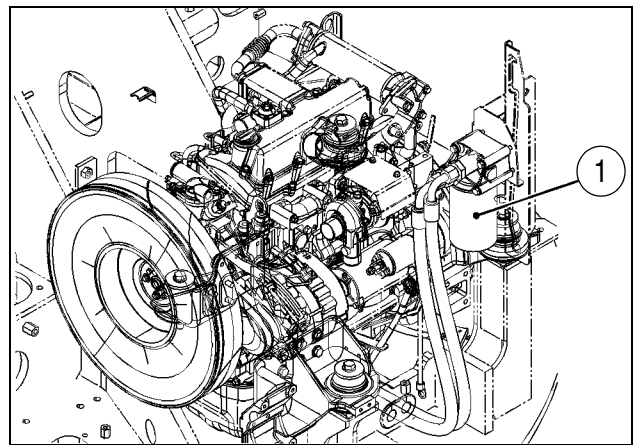
BS08B345

Figure 69

1. OIL DIPSTICK
2. FILLER CAP
3. OIL DRAIN
4. HOSE

Change oil and oil filter at 50 hour run-in period for a new machine, then at every 500 hours thereafter.

1. Park the machine on a firm, level surface with both attachments resting on the ground. Turn the engine off. Keep all unauthorized personnel clear of the area.
2. Raise the engine cover. Remove the dipstick to allow oil to run more freely.
3. Remove bolts and engine belly pan cover.
4. Place an empty container [15 L (4 gal) capacity] under the plug. Attach the quick drain hose (4), and drain the oil into the container.
5. After draining oil, remove drain hose, and tighten drain cap securely. Remove any spilled oil.

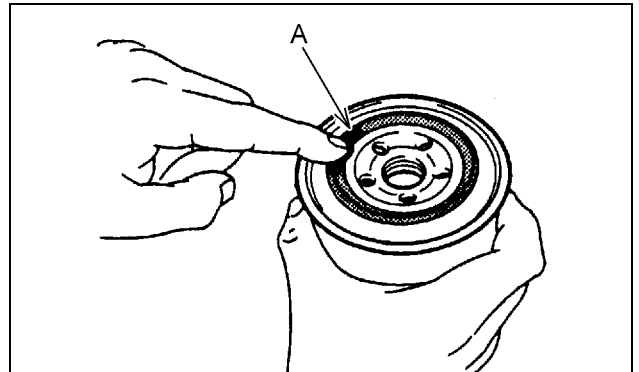


BD08B437

Figure 70

1. OIL FILTER

6. Use the filter wrench and turn counter clockwise to remove the oil filter.



BD07N040

Figure 71

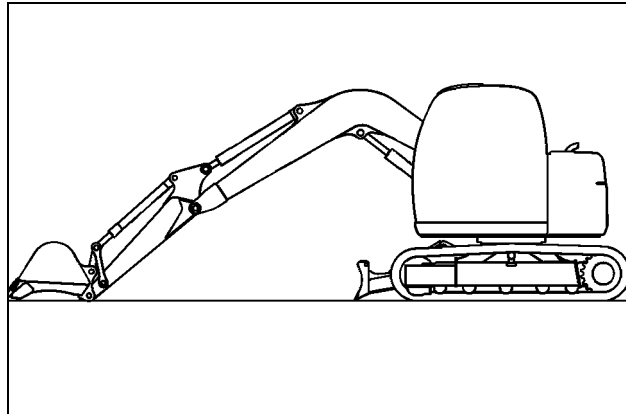
7. To install the oil filter, apply a thin coat of engine oil to the gasket (A) of the new oil filter, fill the filter partially with engine oil and then secure the filter by tightening 2/3 of a complete turn by hand after the gasket comes in contact with the oil filter head.

**NOTE:** Check the waste oil. If there are metal flakes in the oil, contact your dealer. DO NOT reuse the oil filter.

8. Clean oil drain plug and install it. Tighten securely.
9. Fill with the specified amount of oil through filler port (2) and install oil filler cap.
10. Before starting the engine, check oil level using the dipstick. The level should be between the L and H limits as shown. Start and run the engine for five minutes. Stop the engine and recheck the oil level after 30 minutes. Add oil if necessary.
11. Install under cover to its original position.

**ENGINE COOLANT CHANGE**

**WARNING:** *Be cautious of hot fluids and surfaces. Wear goggles, safety shoes, hard hat, work clothes, and work gloves to perform inspection and maintenance on this machine. Allow sufficient time for the engine to cool down before changing fluids.*

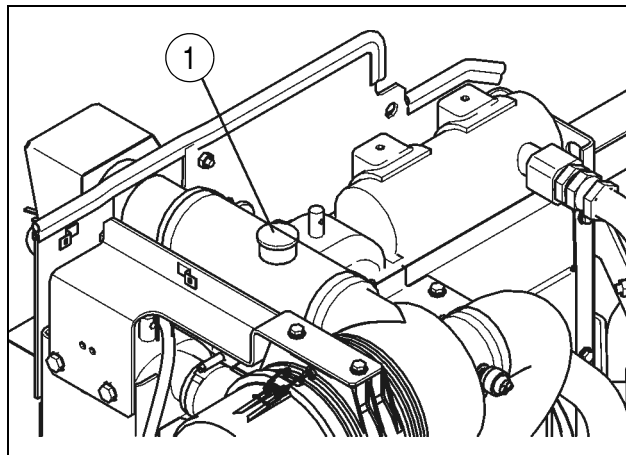


BS08B259

Figure 93

1. Park the machine on a firm, level surface with both attachments resting on the ground. Turn the engine off. Keep all unauthorized personnel clear of the area.

**WARNING:** *Use extreme caution when removing the radiator cap. The coolant is under pressure when hot. Never remove the radiator cap when system is hot. allow sufficient time for machine to cool down.*

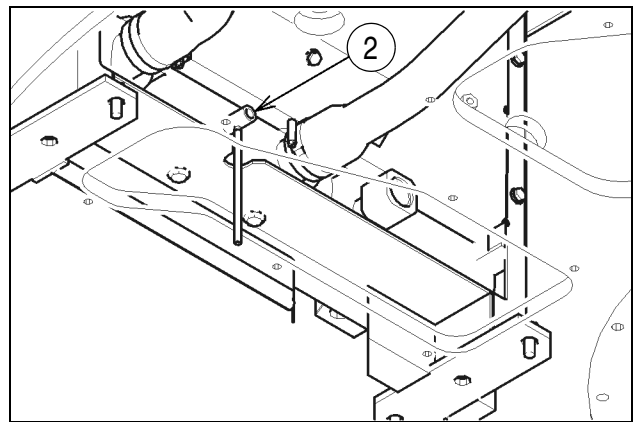


BS08B500

Figure 94

**1. RADIATOR CAP**

2. Raise the engine cover, secure it open, and place a rag or paper towel on the radiator cap. Slowly remove the cap (1). The system could be under pressure.



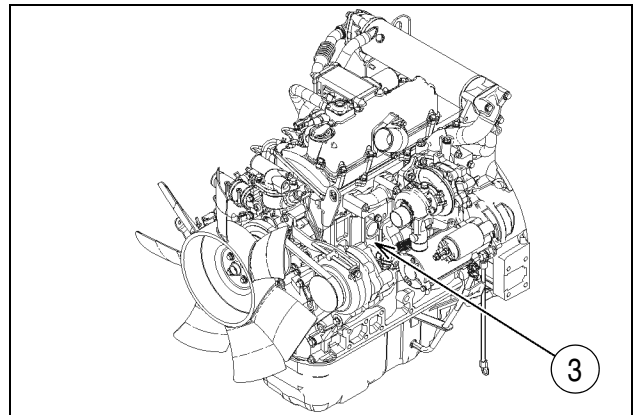
BS08B537

Figure 95

**2. RADIATOR DRAIN VALVE**

3. Locate the lower cover beneath the radiator.
4. Remove cover to obtain access to the radiator drain hose. Place an empty container, with sufficient capacity for engine coolant, below the radiator drain hose. Turn valve counter clockwise to open drain.

**NOTE:** *Refer to LUBRICATION, FILTERS, AND FLUIDS section for proper engine coolant and capacity.*

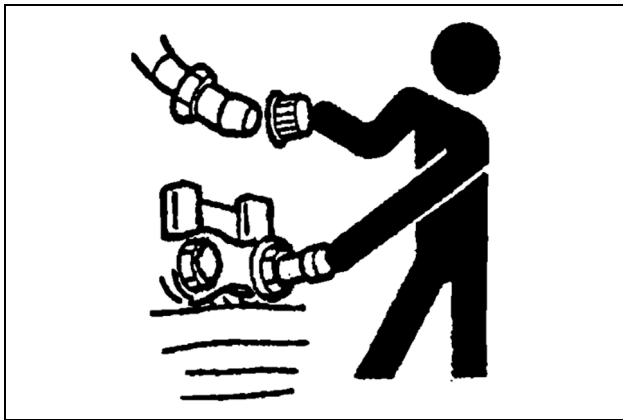


BS08B490

Figure 96

**3. RADIATOR DRAIN PLUG**

5. Remove the engine lower covers.
6. Locate the engine coolant drain plug (3). Remove it to drain coolant. Use a funnel with hose attached to direct the drained coolant toward the container.
7. After draining, close the drain valve and install the drain plug. Fill cooling system with fresh water, preferable with hot water.



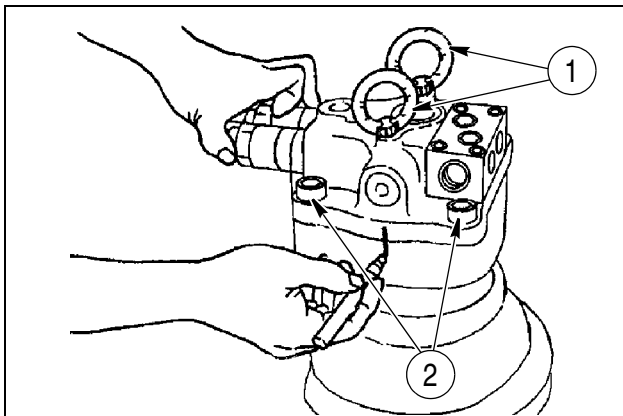
DC04B673

Figure 119

3. Install the proper plugs and caps onto hoses, tubes and fittings to avoid the possibility of contamination entering the hydraulic system.

**IMPORTANT:** Use only plugs and caps designed to properly seal the specific hose, tube or fitting they are to be installed on.

**IMPORTANT:** Do not allow any dirt or debris to enter the swing motor or settle on the top plate.



DC03M072

Figure 120

1. LIFTING EYES 2. COVER BOLTS

4. Remove the two (2) plugs on top of the swing motor cover and install 2 x M10 -1.5 x 18 mm eye bolts, and place a reference mark between top cover and housing.

**NOTE:** Place a large quantity of clean, dry shop rags around the swing motor to help catch any overflow of hydraulic oil from the removal of the Top Plate.

5. Carefully loosen the four (4) top plate mounting bolts with the 17 mm socket head wrench.
6. Remove two (2) top plate mounting bolts from corners opposite of each other.
7. Attach overhead lifting device to the lifting eyes and remove most of the slack from the cable or chain.

Figure 121

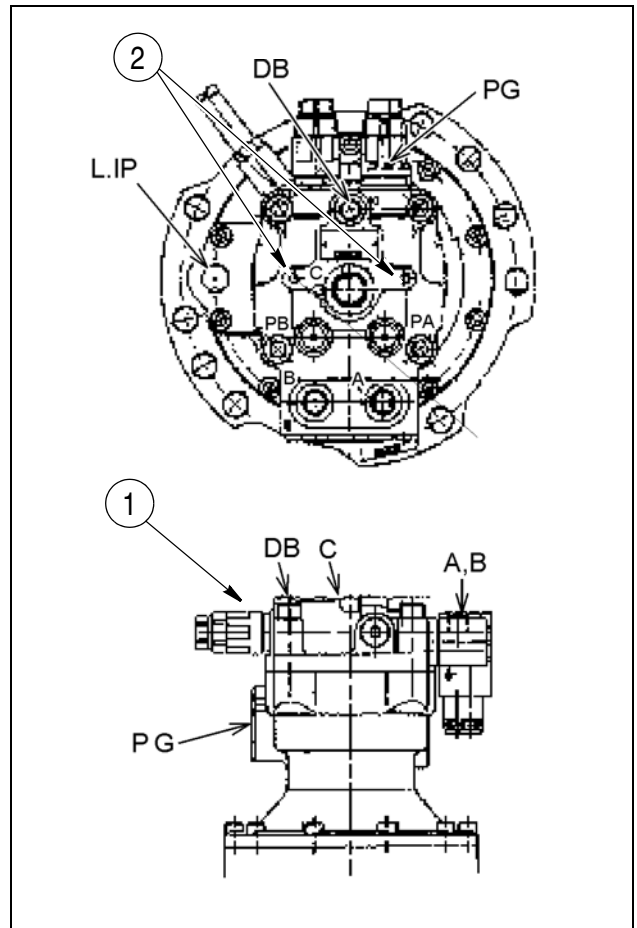
Figure 122

### RELEASING SWING BRAKE MANUALLY WITH HYDRAULIC HAND PUMP



**WARNING:** Make certain that the attachment is on the ground to help prevent sudden rotation of the upper structure before attempting to release the swing brake. Refer to "Lowering Attachment When Sudden Engine Failure Occurs" in this section.

New Holland Construction highly recommends the use of a hydraulic hand pump to release the swing brake manually when the engine fails to start.



BS07M471

Figure 123

1. SWING SHOCKLESS VALVE 2. LIFTING BOLT HOLES


Code	Name	Size	Torque N-m	ft. lbs
A, B	Main Port	2 - PF 1/2	108	80
M	Make-up Port	PF 1/4	167	123
DB	Drain Port	PF 3/8	74	55
PG	Brake Release Port	PF1/4	36	27
L	Gear Oil Level Port	PT 1/4	98	72
IP	Gear Oil Level Port	PT 3/4	98	72
PA, PB	Pressure Measurement Port	PF 1/4	36	27

**BATTERIES**

**NOTE:** Batteries is also shown on MAINTENANCE AND ADJUSTMENT, Chapter 6 in this Manual.

Perform complete battery service on a new machine after the first 50 hours of engine operation. Then, check electrolyte (acid) every 50 hours and perform maintenance every 250 hours.

**WARNING:**



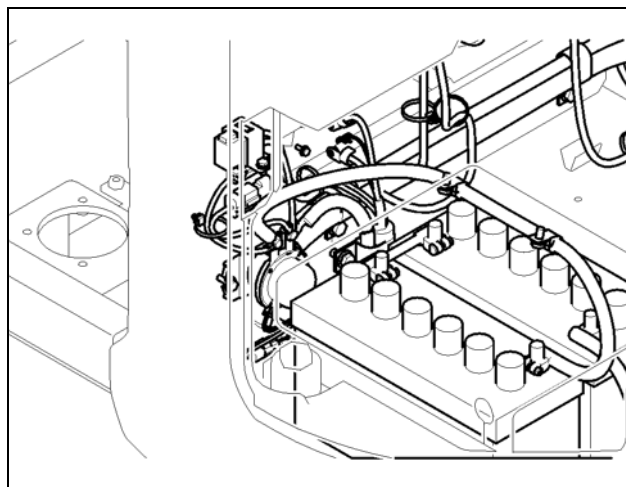
DC04D589

**!** Wear safety clothes, goggles or face shield, gloves and safety shoes when working with batteries.

Work in a well ventilated area.

Battery electrolyte (acid) is corrosive. If it comes in contact with skin, eyes or clothing, flush with large amount of water and seek immediate medical attention.

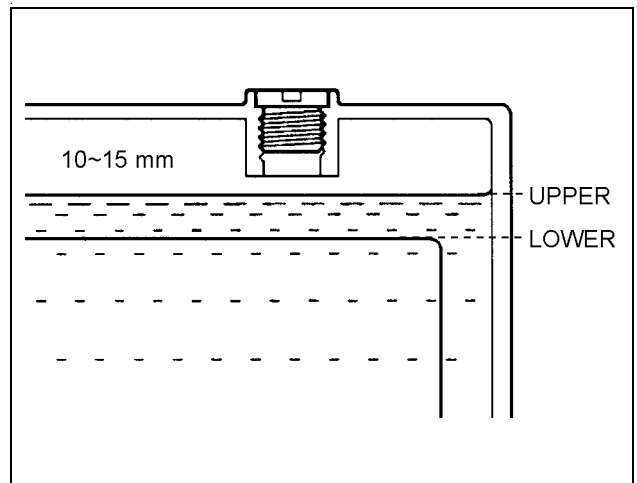
Battery electrolyte (acid) produces hydrogen gas that is highly explosive. Keep away sparks, fire or flames and do not smoke when working with batteries.



BS07M459

Figure 5

1. Batteries are located on the left side of the machine.



BS06H237

Figure 6

2. Remove battery cell caps and visually inspect electrolyte (acid) level. Proper level is 10 ~ 15 mm (0.4" ~ 0.6") above cell plates.
3. If necessary, fill each cell to proper level with **DISTILLED WATER ONLY**.
4. Remove cables from terminals and clean with hot water. Coat each terminal with a thin layer of petroleum jelly. Clean cables in the same manner and reinstall onto battery.
5. If cables are found to be in poor condition, replace with new parts immediately.

**WARNING:**

*Prevent Battery Explosion:*

Batteries give hydrogen gases that can explode and cause personal injury.

Keep sparks, open flames and cigarettes away from the batteries.

**!** Keep metallic articles away from batteries.

Keep all ventilation caps tightly secured.

Never check charge by placing metal articles across battery terminals.

Leave battery box open to improve ventilation when charging.

CHAPTER 8 - SPECIFICATIONS

Type			Grouser Shoes		Flat Shoes	Rubber Shoes
Use			450 mm (17.7")	600 mm (23.6")	450 mm (17.7")	450 mm (17.7")
			For General Soil (Standard)	For Soft Soil (Optional)	For Soft Soil (Optional)	For Soft Soil (Optional)
Specifications	Working Weight	kg	8360	8590	8550	8270
	Height to Top Cab	mm	2740	2740	2740	2740
	Ground Clearance of Under carriage	mm	360*	360*	360*	360*
	Basic Machine Length	mm	3880	3880	3880	3880
	Overall Length of Crawler	mm	2860	2860	2860	2860
	Overall Width of Crawler	mm	2490	2490	2490	2490
	Ground Pressure	kPa	37.1	28.6	38.0	36.7

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