

Operator's Manual

ZAXIS

210K

210LCK

Excavator

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

SAFETY

WEAR PROTECTIVE CLOTHING

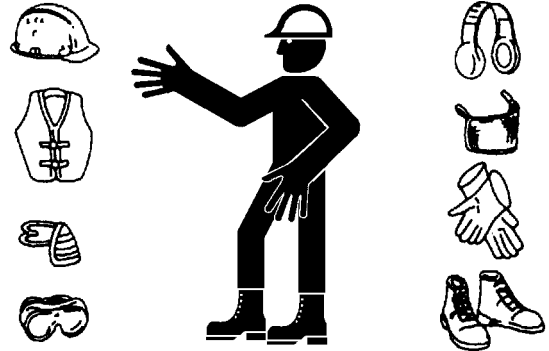
- Wear close fitting clothing and safety equipment appropriate to the job.

You may need:

- A hard hat
- Safety shoes
- Safety glasses, goggles, or face shield
- Heavy gloves
- Hearing protection
- Reflective clothing
- Wet weather gear
- Respirator or filter mask.

Be sure to wear the correct equipment and clothing for the job. Do not take any chances.

- Avoid wearing loose clothing, jewelry, or other items that can catch on control levers or other parts of the machine.
- Operating equipment safely requires the full attention of the operator. Do not wear radio or music headphones while operating the machine.



SA-438

005-E01A-0438

PROTECT AGAINST NOISE

- Prolonged exposure to loud noise can cause impairment or loss of hearing.
- Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortably loud noises.



006-E01A-0434

SA-434

INSPECT MACHINE

- Inspect your machine carefully each day or shift by walking around it before you start it to avoid personal injury.
- In the walk-around inspection, be sure to cover all points described in the “PRE-START INSPECTION” chapter in the operator’s manual.



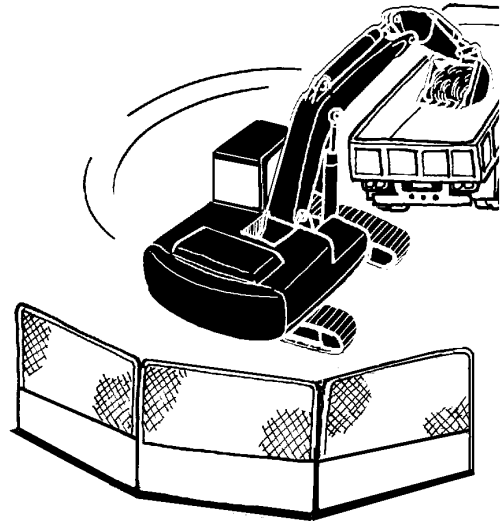
007-E01A-0435

SA-435

SAFETY

KEEP PERSON CLEAR FROM WORKING AREA

- A person may be hit severely by the swinging front attachment or counterweight and/or may be crushed against an other object, resulting in serious injury or death.
- Keep all persons clear from the area of operation and machine movement.
- Before operating the machine, set up barriers to the sides and rear area of the bucket swing radius to prevent anyone from entering the work area.



022-E01A-0386

SA-386

NEVER POSITION BUCKET OVER ANYONE

- Never lift, move, or swing bucket above anyone or a truck cab. Serious injury or machine damage may result due to bucket load spill or due to collision with the bucket.

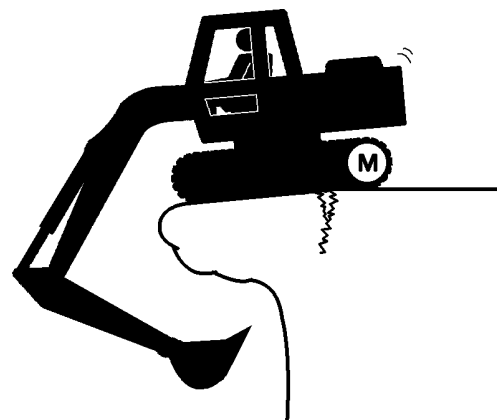


023-E01A-0487

SA-487

AVOID UNDERCUTTING

- In order to retreat from the edge of an excavation if the footing should collapse, always position the undercarriage perpendicular to the edge of the excavation with the travel motors at the rear.
- If the footing starts to collapse and if retreat is not possible, do not panic. Often, the machine can be secured by lowering the front attachment, in such cases.



024-E01A-0488

SA-488

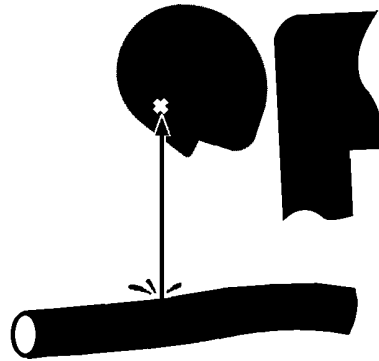
SAFETY

AVOID HIGH-PRESSURE FLUIDS

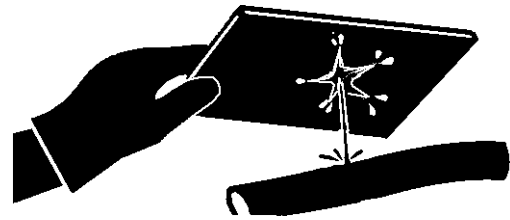
- Fluids such as diesel fuel or hydraulic oil under pressure can penetrate the skin or eyes causing serious injury, blindness or death.
- Avoid this hazard by relieving pressure before disconnecting hydraulic or other lines.
- Tighten all connections before applying pressure.
- Search for leaks with a piece of cardboard; take care to protect hands and body from high-pressure fluids. Wear a face shield or goggles for eye protection.
- If an accident occurs, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.



SA-031




SA-292



SA-044

507-E03A-0499

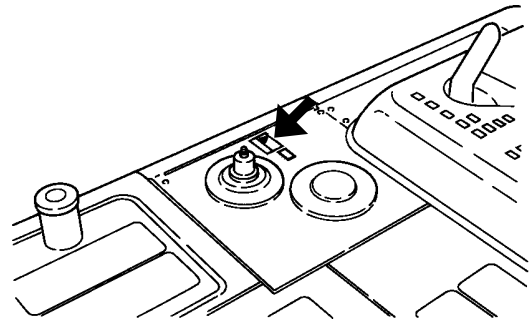
SAFETY SIGNS



CAUTION

- BEFORE REMOVING HYDRAULIC RESERVOIR CAP AND AIR BREATHER ALWAYS STOP ENGINE.
- BEFORE REMOVING CAP ALWAYS PRESS AIR BREATHER BUTTON TO RELEASE INTERNAL PRESSURE.
- DO NOT REMOVE CAP WHEN OIL TEMPERATURE IS HOT.
- DO NOT LOOSEN DRAIN PLUG WHEN OIL TEMPERATURE IS HOT.

3077560



SS-2040

SS-864

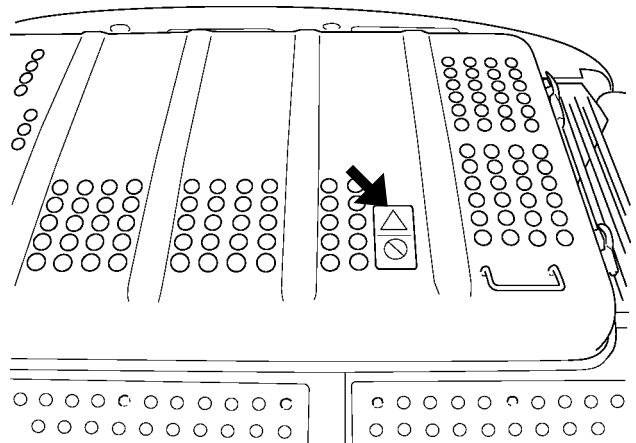
▲ WARNING



Don't stand in this place.

Falling hazard exists.

3092351



SS-2046

SS3092351

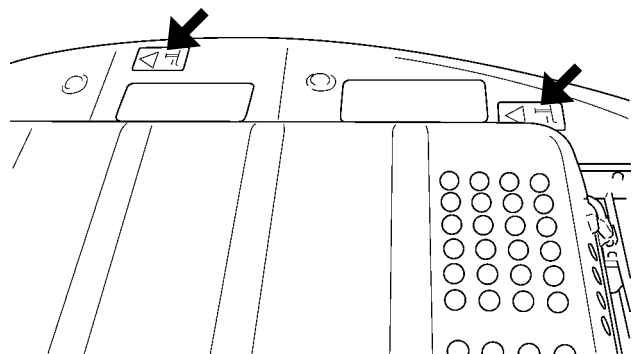
▲ WARNING



Never stand close to the edge.

Falling hazard exists.

3092350



SS-2047

SS3092350

OPERATOR'S STATION

SET SWITCH

The set-hours in the Trip Meter 1 and Trip Meter 2 can be changed by pressing SET switch (4).

- Setting

1. Press display selection switch (3) to display either Trip Meter 1 or 2 on the LCD.
2. Each time SET switch (4) is pressed, the set-hour can be changed in the following order.
50>100>150>200>250>300>400>500>750>1000>1250>1500>2000>2500>3000>3500>4000>4500>5000>50>
When the SET switch is pressed for more than 2 seconds, the set-hour can be changed quickly.
3. End to press SET switch (4) when the hour desired to set is indicated. Press display selection switch (3) to set the Trip Meter.

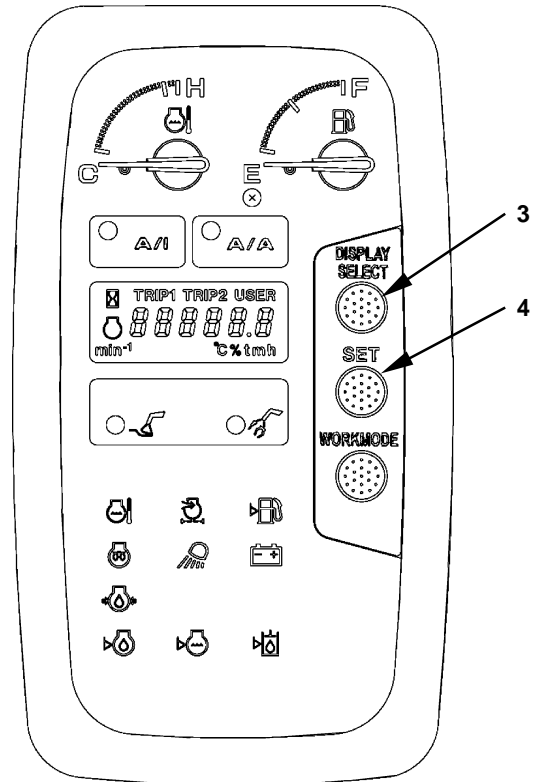
- Resetting

As shown below, the set-hour can be changed:

1. Press display selection switch (3) to display either Trip Meter 1 or 2 on the LCD.
2. When SET switch (4) is pressed once, the currently indicated hours can be reset as shown in the following table.

Currently Indicated Hour		Set-Hour after Resetting
35.2	→	50.0
184.2	→	200.0

3. Each time the SET switch is pressed further, the set-hour is changed as shown below.
50>100>150>200>250>300>400>500>750>1000>1250>1500>2000>2500>3000>3500>4000>4500>5000>50>
When the SET switch is pressed for more than 2 seconds, the set-hour can be changed quickly.
4. End to press SET switch (4) when the hour desired to set is indicated. Press display selection switch (3) to set the Trip Meter.

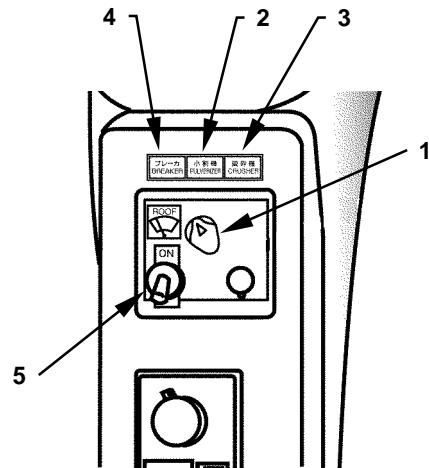


M178-01-090

OPERATOR'S STATION

Switch Panel 2 (HG Type)

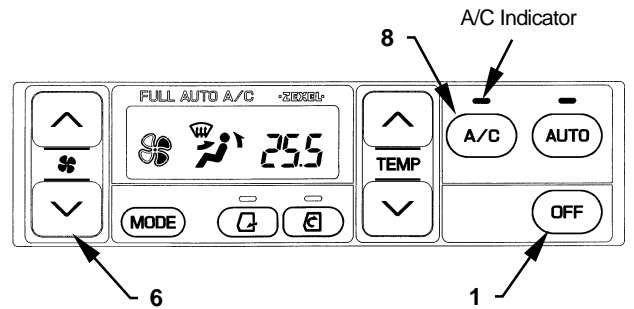
- 1- Attachment Select Switch
- 2- Crusher
- 3- Pulverizer
- 4- Breaker
- 5- Wiper (Overhead Window)



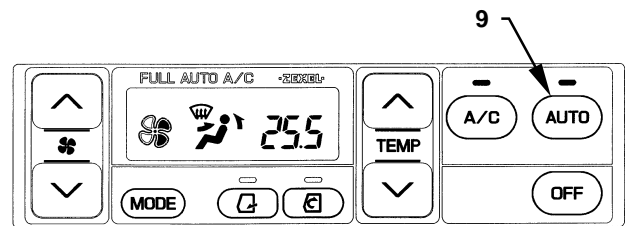
M157-01-182

OPERATOR'S STATION

- **Air Conditioner (A/C) Switch (8)**
Press A/C switch (8) to turn the cooler and the A/C indicator ON. However, unless the blower is running (the fan display of blower switch (6) is lit), the cooler will not be turned ON.
- **OFF Switch (10)**
Press OFF switch (10) to turn the blower and the air conditioner OFF.
- **AUTO Switch (9)**
Press AUTO switch (9) to turn the AUTO and the A/C indicators ON so that the air flow-in temperature at the vent, blower speed, vent locations, and fresh air suction port are automatically controlled.



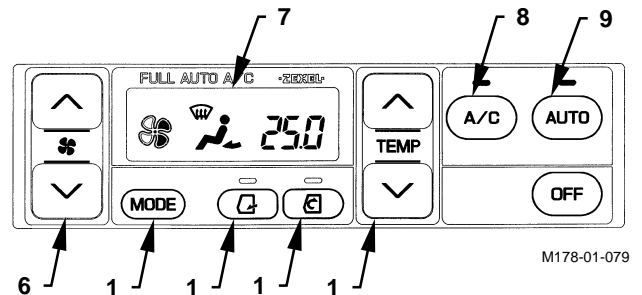
Display when Air Conditioner Switch (8) is pressed:



Display when AUTO Switch (9) is pressed:

CAB HEATER OPERATION

1. Operate the AUTO switch.
According to signals sent from various sensors, the air conditioner amplifier automatically selects the air flow-in vents, air suction ports, and air flow-in temperature at the vent, and controls the blower speed.
2. Operate Temperature Control Switch (11).
Set temperature control switch (11) so that [25.0] is indicated on LCD (7). Control air temperature inside cab using this switch as necessary.
3. As Necessary:
 - Operate MODE switch (14) to manually select the air vent.
 - Operate blower switch (6) to manually control the blower speed.
 - Operate fresh air mode switch (13) to maintain the air vent in the fresh air circulation mode.
 - Operate circulation mode switch (12) to maintain the air suction port in the circulation mode.



When the A/C indicator is ON, the air conditioner functions dehumidifier. Press A/C switch (8) to turn OFF the dehumidifier function.

OPERATOR'S STATION

SEAT BELT



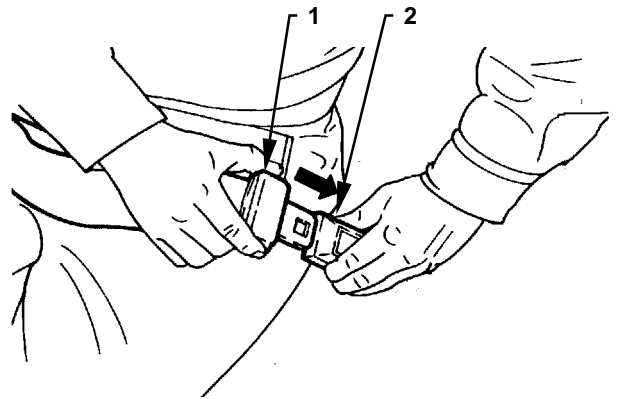
CAUTION: Be sure to use the seat belt when operating the machine.

Before operating the machine, be sure to examine seat belt (1), buckle (2), and attaching hardware. Replace seat belt (1), buckle (2), or attaching hardware if they are damaged, or worn.

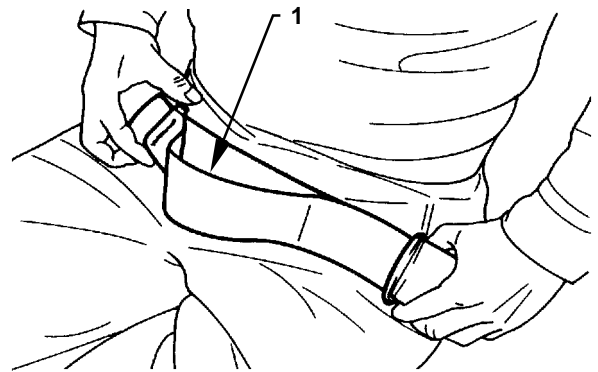
Replace seat belt (1) every three years, regardless of appearance.

Seat Belt

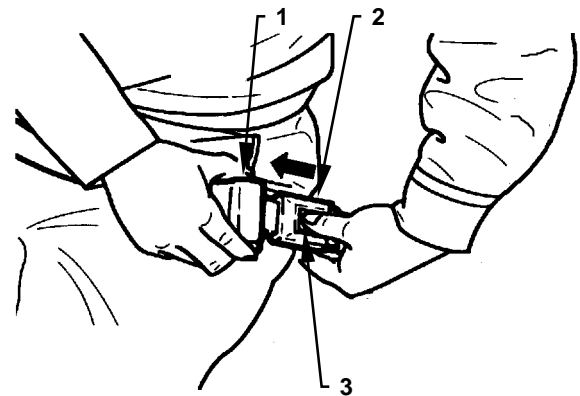
1. Confirm that seat belt (1) is not twisted. Securely insert the end of seat belt (1) into buckle (2). Lightly pull on the belt to confirm that the buckle latches securely.
2. Adjust seat belt (1) so that the belt is snug but comfortable.
3. Push button (3) on buckle (2) to unfasten seat belt (1).



M157-01-168



M157-01-169



M157-01-170

DRIVING THE MACHINE

TOWING MACHINE A SHORT DISTANCE



CAUTION: Cables, straps, or ropes can break causing serious injury. Do not tow machine with damaged chains, frayed cables, slings, straps, or wire ropes.

Always wear gloves when handling cable, straps or wire ropes.

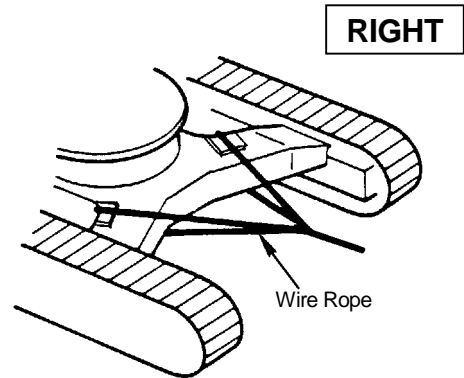
When your machine becomes stuck but the engine is still operational, attach wire rope tow lines as illustrated at right, and slowly tow your machine to firm ground using another machine.

Be sure to attach the wire ropes around the track frames of both machines as illustrated.

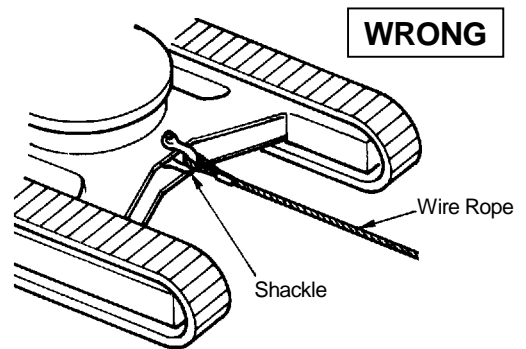
To prevent the wire ropes from being damaged, place some protective material between the track frame and the wire ropes.

IMPORTANT: Do not use the shackle hole on the track frame for towing the machine.

A shackle hole is provided to pull only light weight objects. Refer to page 5-17 for instructions for using the shackle hole properly.



M104-05-010



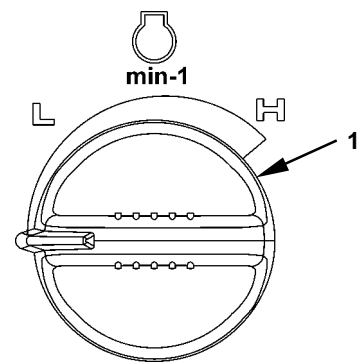
M104-05-011

OPERATING THE MACHINE

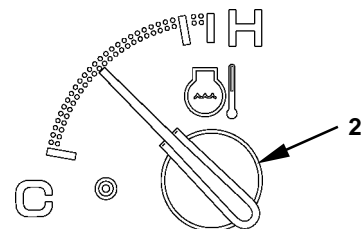
Warming-up the Motor and the Cylinders

IMPORTANT: 1. In cold weather, be sure to thoroughly warm-up the motors and cylinders.
2. If the hydraulic circuit is continuously relieved for a certain amount of time, the temperature in the control valve would rise excessively. Never operate to stroke end more than 15 seconds. After relieving any function, up to 15 seconds, be sure to have a 5–10 second intermission.

1. Check that the needle of coolant temperature gauge (2) starts moving so that engine coolant warm-up operation is complete.
2. Turn engine control dial (1) to the medium position.
3. Operate the boom, arm and bucket cylinders slowly to each stroke end several times.
4. Operate travel and swing functions slowly, initially moving only short distances.
5. Continue to repeat steps 3 and 4 until bucket cycle time is normal.



M178-01-011



M178-01-104

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

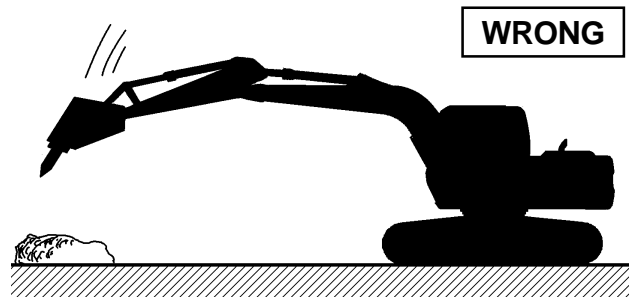
OPERATING THE MACHINE

PRECAUTIONS FOR BREAKER OPERATION

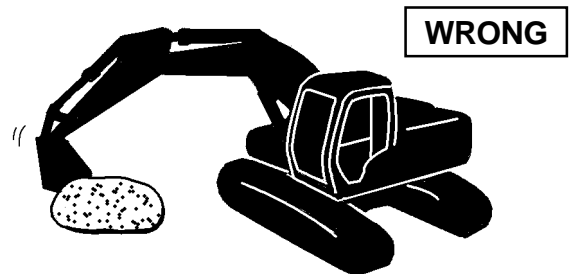
⚠ CAUTION: Machine stability is reduced as the breaker is much heavier than the bucket. When using a breaker, the machine is more apt to tip over. Also, flying objects may hit the cab or other part of the machine. Observe the following precautions and take any other precautions necessary to prevent accidents and machine damage from occurring.

- Avoid hitting objects with breaker. The breaker is heavier than the bucket, causing the breaker to lower faster. Take care not to hit any objects with breaker. Doing so will result in damage to the breaker, the front attachment, and/or the upperstructure. Always move (lower) the breaker slowly to position the tip of the chisel on the object to be broken before starting breaker operation.
- Do not use the breaker and/or the swing function to move objects. Damage to the boom, arm, and/or breaker may result.
- To prevent cylinder/machine damage, do not operate the breaker with the hydraulic cylinder rod fully retracted or fully extended.

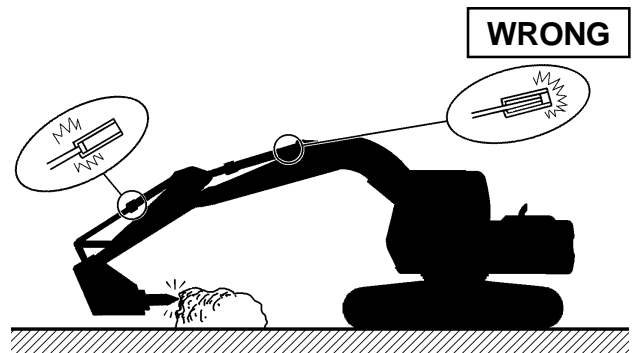
- Stop operation if breaker hydraulic hoses jump abnormally. Change in breaker accumulator pressure or a damaged accumulator will cause abnormal hose jumping and may cause breaker and/or machine damage. Immediately contact your authorized dealer if this happens.



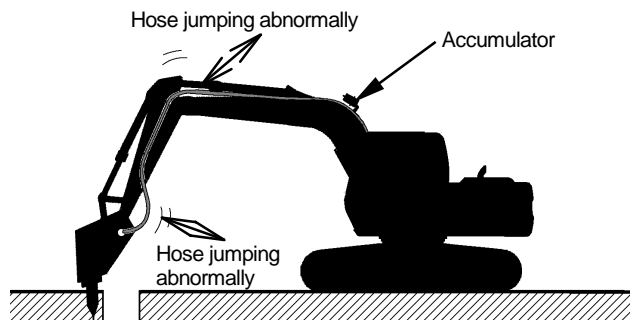
M104-05-055



M104-05-056



M104-05-057



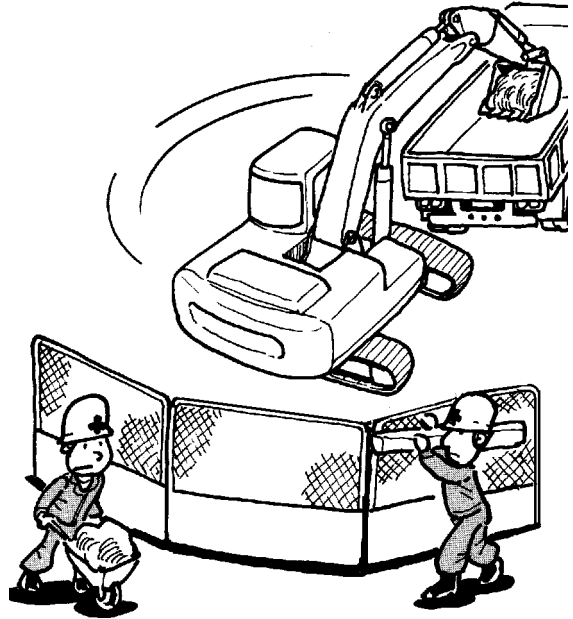
M104-05-058

OPERATING THE MACHINE

PRECAUTIONS FOR OPERATIONS

⚠ CAUTION: Investigate the work site before starting operations.


1. Be sure to install an overhead cab guard when operating in a work site which has a possibility of falling objects.
 2. If operation on soft ground is required, sufficiently reinforce the ground beforehand.
- Be sure to wear close fitting clothing and safety equipment appropriate for the job, such as a hard hat, etc. when operating the machine.
 - Clear all persons and obstacles from area of operation and machine movement. Always beware of the surroundings while operating. When working in a small area surrounded by obstacles, take care not to hit the upperstructure against obstacles.
 - When loading onto trucks, bring the bucket over the truck beds from the rear side. Take care not to swing the bucket over the cab or over any person.



M104-05-015

TRANSPORTING

4. Stop the engine. Remove key from switch.
5. Move the control levers several times until hydraulic pressure in the cylinders is released.
6. Pull pilot control shut-off lever to LOCK position.
7. Close cab windows, roof vent and door, and cover the exhaust opening, to prevent entry of wind and water.

 **NOTE:** *In cold weather, be sure to warm up the machine before loading or unloading it.*

Transporting



CAUTION: Fasten chains or cables to the machine frame. Do not place chains or cables over or against the hydraulic lines or hoses.

1. Place blocks in front of and behind the tracks.
2. Fasten each corner of the machine and front attachment to the trailer with a chain or cable.




M107-06-013

MAINTENANCE

D. HYDRAULIC SYSTEM (See Page 7-22)

Parts		Quantity	Interval (hours)											
			8	50	100	250	300	500	1000	1500	2500	4000		
1. Check Hydraulic Oil Level		1												
2. Drain Hydraulic Oil Tank Sump		1												
3. Change Hydraulic Oil		200 L (52.4 US gal)								*				
4. Suction Filter Cleaning		1	When changing hydraulic oil											
5. Replace Hydraulic Tank Oil Filter		1					*							
6. Replace Pilot Oil Filter		1												
7. Check Hoses and Lines	for leaks	-												
	for cracks, bend, etc.	-												

 **NOTE:** * Replacement intervals differ depending on the brand of hydraulic oil used, kind of filter element used and availability factor of the attachments. Refer to the Hydraulic System and Replacement Intervals (Hours) of Hydraulic Oil and Full Flow Filter Element in the Maintenance section.

E. FUEL SYSTEM (See Page 7-36)

Tank capacity 360 liter (95 US gal)


Parts		Quantity	Interval (hours)							
			8	50	100	250	500	1000	2000	
1. Drain Fuel Tank Sump		1								
2. Check Water Separator		1								
3. Replace Fuel Filter		1								
4. Clean Feed Pump Strainer		1								
5. Check Fuel Hoses	for leaks, cracks, etc.	—								
	for cracks, bend, etc.	—								

F. AIR CLEANER (See Page 7-44)

Parts		Quantity	Interval (hours)							
			8	50	100	250	500	1000	2000	
1. Air Cleaner Outer Element	Cleaning	1	(Or when indicator lit) style="background-color: #cccccc;">							
	Replacement	1	After cleaning 6 times or 1 year							
2. Air Cleaner Inner Element	Replacement	1	When outer element is replaced							

G. COOLING SYSTEM (See Page 7-46)

Parts		Quantity	Interval (hours)							
			8	50	100	250	500	1000	2000	
1. Check Coolant Level		1								
2. Check and Adjust Fan Belt Tension		1		**						
3. Change Coolant		23.0 L (6.1 US gal)	Twice a year * ₁							
4. Clean Radiator and Oil Cooler Core	Outside	1						* ₂		
	Inside	1	When changing coolant							
5. Clean Oil Cooler Front Screen		1						* ₂		
6. Clean Air Conditioner Condenser (Opt.)		1						* ₂		
7. Clean Inter Cooler Front Screen (Opt.)		1						* ₂		
Clean Air Conditioner Front Screen (Opt.)		1						* ₂		

 **NOTE:** ** Maintenance required only during first time check.

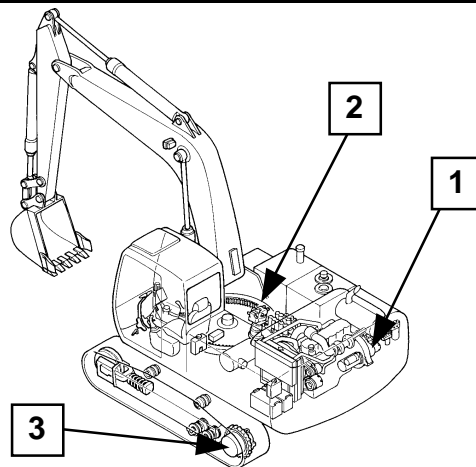
*₁ When genuine coolant is used, replace every two years or 4000 operating hours, whichever comes first.

*₂ Shorten the maintenance interval when the machine is operated in dusty areas.

MAINTENANCE

C. TRANSMISSION

Parts		Quantity	Interval (hours)						
			8	50	100	250	500	1000	2000
1. Pump Transmission	Oil Level Check	1							
	Change	1.0 L (1.1 US qt)							
2. Swing Reduction Gear	Oil Level Check	1							
	Change	6.2 L (1.6 US gal)							
3. Travel Reduction Gear	Oil Level Check	2							
	Change	6.8 L × 2 (1.8 US gal × 2)							



M178-01-044

Brand Names of Recommended Oil

Application	Swing and Travel Reduction Gear		Pump Transmission		
Kind of Oil	Gear oil		Engine Oil or Gear Oil (shown in left column)		
Air Temp.	-20 to 40 °C (-4 to 104 °F)		-20 to 40 °C (-4 to 104 °F)	-10 to 35 °C (14 to 95 °F)	-25 to 40 °C (77 to 104 °F)
Manufacturer	BP Gear oil	SAE90EP	BP Vanellus C3		
British Petroleum			30	40	
Caltex Oil	Universal Thuban	SAE 90	RPM DELO 300 Oil		
			30	40	
Esso	Esso Gear Oil	80W-90, 85W-90	Essolube D-3		
			30	40	
Idemitsu Kosan	Apollo Gear	HE90	Apolloil super wide 15W-40	Apolloil diesel motive	
				S-330	S-340
Mobil Oil	Mobilube	GX90	Mobil Delvac		
				1330	1340
Nippon Oil	Gear Lube SP90 (Swing and travel reduction device) *2		Hidiesel S3		
	SP80W-90 (Pump Transmission 'only') *1		15W-40 *1	-20 to 35 °C (-4 to 95 °F) 10W-30	
Shell Oil	Shell Spirax	EP90	Rympla zoil white pilot super		
				30	40
Remarks	API GL 4 Class		API CD Class		

NOTE: The machine shipped from the factory is filled with oil marked .

- *1 Engine oil or gear oil for pump transmission
 - *2 Gear oil for swing and travel reduction device
- Engine/gear oil can be used for pump transmission.

MAINTENANCE

2

Drain Hydraulic Tank Sump

--- every 250 hours

IMPORTANT: Never run the engine without oil in hydraulic oil tank.

1. Park the machine on a level surface with the upper-structure rotated 90° for easier access.
2. Lower the bucket to the ground.
3. Turn the auto-idle switch off.

IMPORTANT: The turbocharger may be damaged if the engine is not properly shut down.

4. Run the engine at slow idle speed without load for five minutes.
5. Turn the key switch OFF. Remove the key from the key switch.
6. Pull the pilot control shut-off lever to the LOCK position.



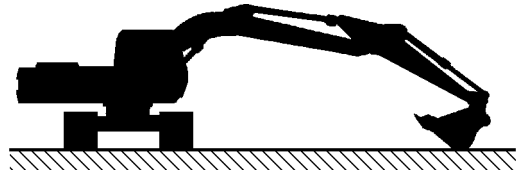
CAUTION: The hydraulic oil tank is pressurized. Push the pressure release button on the air breather to release pressure.

7. Push the pressure release button (1) on the air breather to release pressure.

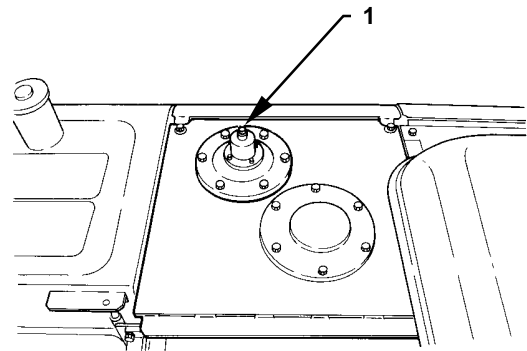


CAUTION: Do not loosen the drain plug until oil is cool. Hydraulic oil may be hot, potentially causing serious injury.

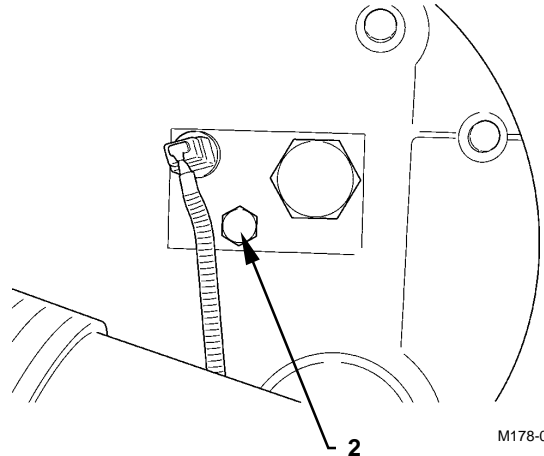
8. After oil is cool, loosen drain plug (2) to drain water and sediment. Do not remove the plug completely, only loosen it enough to drain water and sediment.
9. After draining water and sediment, retighten the plug.



M104-07-117



M157-07-173



M178-07-020

MAINTENANCE

E. FUEL SYSTEM

Tank capacity 360 liter (95 US gal)

Parts	Quantity	Interval (hours)						
		8	50	100	250	500	1000	2000
1. Drain Fuel Tank Sump	1							
2. Check Water Separator	1							
3. Replace Fuel Filter	1							
4. Clean Feed Pump Strainer	1							
5. Check Fuel Hoses	for leaks, cracks, etc.							
	for cracks, bend, etc.	—						

Recommended Fuel

Use high quality DIESEL FUEL only (JIS K-2204) (ASTM 2-D). Kerosene must NOT be used.

Refueling

1. Park the machine on a level surface.
2. Lower the bucket to the ground.
3. Turn the auto-idle switch off.

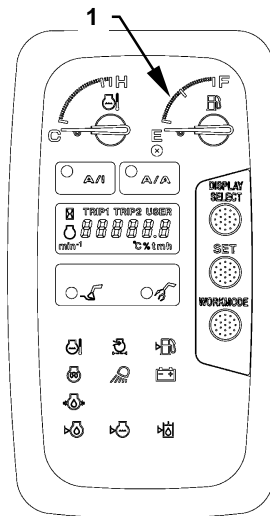
IMPORTANT: The turbocharger may be damaged if the engine is not properly shut down.

4. Run the engine at slow idle speed without load for five minutes.
5. Stop the engine. Remove the key from the key switch.
6. Pull the pilot control shut-off lever to the LOCK position.

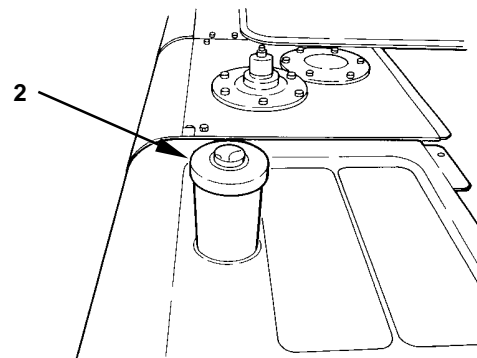
CAUTION: Handle fuel carefully. Shut the engine off before fueling. Do not smoke while you fill the fuel tank or work on fuel system.

7. Check fuel level gauge (3) or fuel gauge (1) of the monitor panel. Add fuel if necessary.

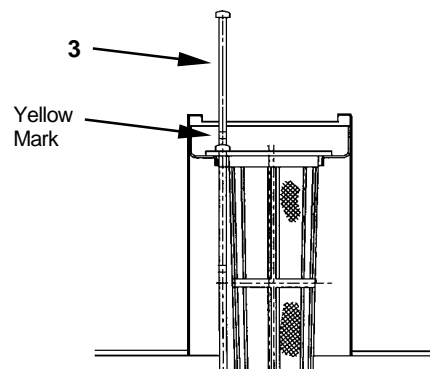
IMPORTANT: Keep all dirt, dust, water and other foreign materials out of the fuel system.



M178-01-090



M157-07-185




M157-07-060

MAINTENANCE

G. COOLING SYSTEM

Parts	Quantity	Interval (hours)						
		8	50	100	250	500	1000	2000
1. Check Coolant Level	1							
2. Check and Adjust Fan Belt Tension	1		★ ★					
3. Change Coolant	23.0 L (6.1 US gal)	Twice a year * ₁						
4. Clean Radiator, Oil Cooler Core, Inter Cooler	Outside	1				* ₂		
	Inside	1	When changing coolant					
5. Clean Oil Cooler Front Screen	1					* ₂		
6. Clean Air Conditioner Condenser (Opt.)	1					* ₂		
7. Clean Inter Cooler Front Screen (Opt.)	1					* ₂		
Clean Air Conditioner Front Screen (Opt.)	1					* ₂		

 **NOTE:** ★ ★ Maintenance required only during first time check.

*₁ Before leaving the Hitachi factory, the cooling system is filled with a mixture of water and Genuine Hitachi Long-Life Coolant. As long as Genuine Hitachi Long-Life Coolant is used, the service intervals between changing the coolant is once every two years, or every 4 000 hours, whichever comes first.

*₂ Shorten the maintenance interval when the machine is operated in dusty areas.

Coolant

Fill the radiator with soft, pure tap or bottled water.

Anti-rust agent

Add approximately 0.46 L (0.49 US qt) of anti-rust agent to the new coolant when the coolant is changed.

It is not necessary to add anti-rust agent when antifreeze is used.

Antifreeze

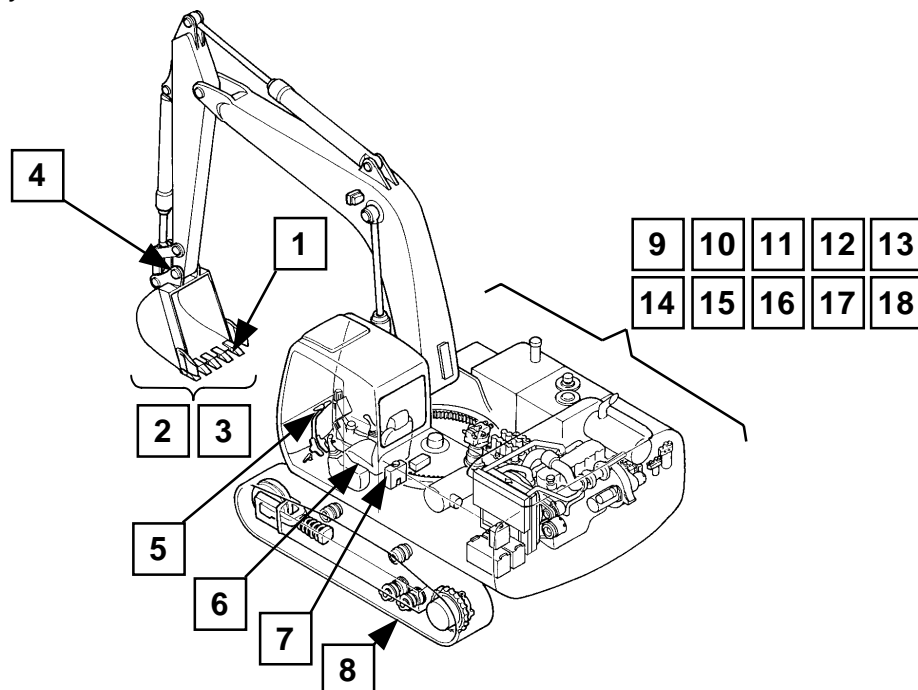
If the air temperature is expected to fall below 0°C (32°F), fill the cooling system with an antifreeze and soft water mix. As a general rule, the ratio of antifreeze should range between 30% and 60% as shown in the table below. If the ratio is below 30%, the system may develop rust, and if it is above 60%, the engine may overheat.

MAINTENANCE

I. MISCELLANEOUS

Parts			Quantity	Interval (hours)							
				8	50	100	250	500	1000	2000	4000
1. Check Bucket Teeth for Wear and Looseness			—								
2. Change Bucket			—	As required							
3. Convert Bucket Connection Into Face Shovel			—	As required							
4. Adjust Bucket Linkage			1	As required							
5. Remove Travel Levers			2	As required							
6. Check and Replace Seat Belt			1		Every 3 years (Replace)						
7. Check Windshield Fluid Level			1	As required							
8. Check Track Sag			2								
9. Check Air Conditioner	Circulating Air Filter	Cleaning	1								
		Replacement	1	After cleaning 6 times or so							
	Fresh Air Filter	Cleaning	1								
		Replacement	1	After cleaning 6 times or so							
10. Check Air Conditioner			—								
11. Check Injection Nozzle			—				*				
12. Retighten Cylinder Head Bolt			—	As required							
13. Inspect and Adjust Valve Clearance			—					*			
14. Check Fuel Injection Timing			—	As required							
15. Measure Engine Compression Pressure			—					*			
16. Check Starter and Alternator			—					*			
17. Change Water Pump Grease			—							*	
18. Check Tightening Torque of Bolts and Nuts			—		**						

NOTE: ** First time only
* Contract your authorized dealer for maintenance.



M178-01-044

MAINTENANCE

9

Clean and Replace Air Conditioner Filter

Clean Filter

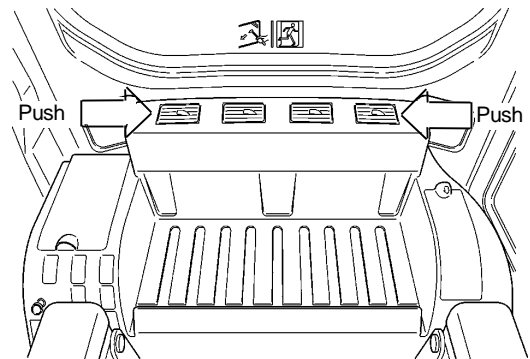
Circulating Air Filter --- every 500 hours

Fresh Air Filter --- every 500 hours

Replace Filter

Circulating Air Filter --- After cleaning 6 times or so

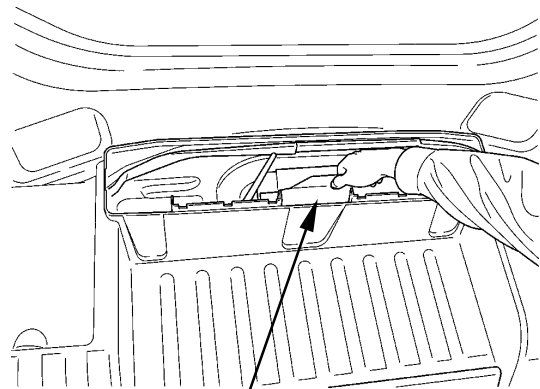
Fresh Air Filter --- After cleaning 6 times or so



M178-07-037

Removing Fresh Air Filter

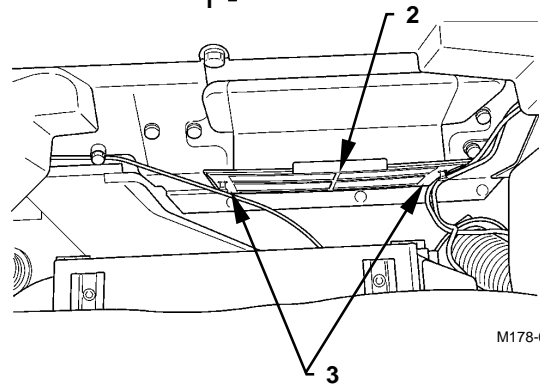
1. While pushing the cover side above the rear deck, raise the upper cover to remove.
2. After removing the upper cover, hold the grip of fresh air filter (1) and pull it out in the vertical direction.



M178-07-070

Removing Recirculation Filter

1. Recirculation filter (2) is located under the rear deck.
2. Holding grips (3), pull them toward you to remove.



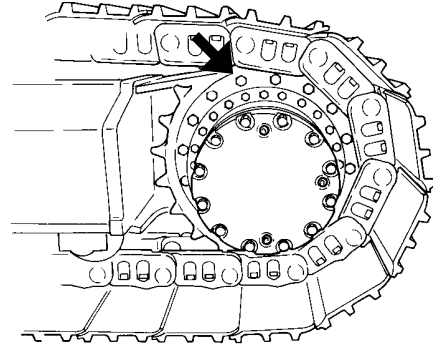
M178-07-071

MAINTENANCE

15. Retighten the sprocket mounting bolts.

Tool: 30 mm

Torque: 540 N·m (55 kgf·m, 400 lbf·ft)

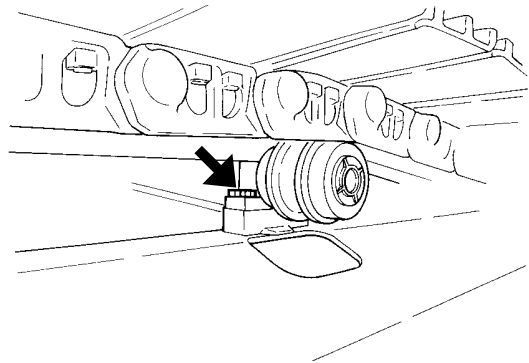


M157-07-223

16. Retighten the upper roller mounting bolts.

Tool: 24 mm

Torque: 270 N·m (27.5 kgf·m, 200 lbf·ft)

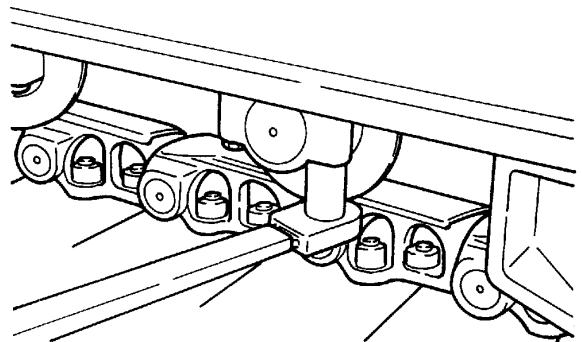


M157-07-224

17. Retighten the lower roller mounting bolts.

Tool: 27 mm

Torque: 460 N·m (47 kgf·m, 340 lbf·ft)

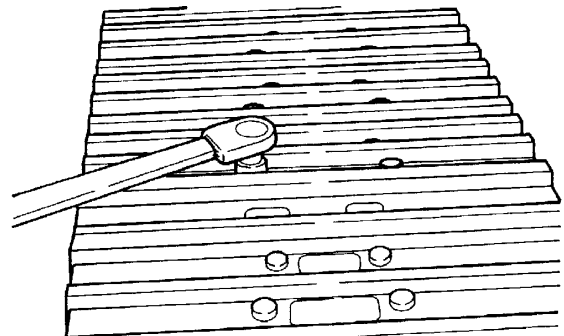


M107-07-092

18. Retighten the shoe mounting bolts.

Tool: 27 mm

Torque: 560 N·m (57 kgf·m, 410 lbf·ft)



M107-07-093

TROUBLESHOOTING

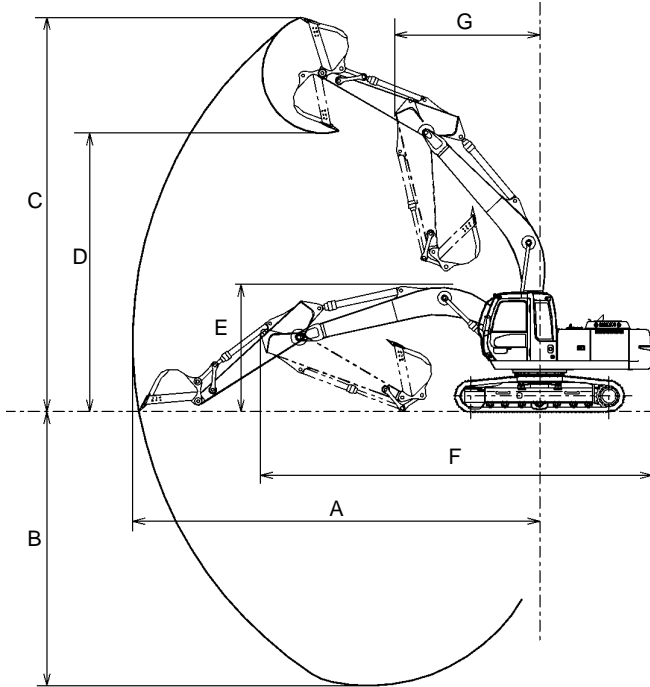
ENGINE

Problem	Cause	Solution
Nothing Works	Battery	Recharge or replace.
Nothing Works (Except clock)	Battery relay	Replace relay.
Batteries Undercharged	Loose or corroded connections Alternator belt loose Alternator not charging Fuse Key switch failure	Clean and tighten or replace batteries. Tighten or install new belt. See your authorized dealer. Replace fuse. Replace key switch.
Starting Motor Will Not Turn	Battery undercharged or dead Battery cables making poor connections Fusible link Key switch Start relay Starter solenoid Starter Starter pinion jammed in flywheel gear Major engine failure	Recharge or replace battery. Clean connections. Replace fusible link. See your authorized dealer. See your authorized dealer. See your authorized dealer. Repair or replace start motor. Repair or replace starter. See your authorized dealer.
Starter Solenoid Chatters	Poor connections at batteries or starter Low battery charge Starter solenoid "hold-in" windings open	Clean connections. Recharge or replace batteries. See your authorized dealer.
Starter Motor Turns but Will Not Crank Engine	Starter pinion gear not engaging flywheel ring gear Pinion shift mechanism jammed or malfunctioning Pinion gear teeth broken Flywheel gear teeth broken	See your authorized dealer. See your authorized dealer. See your authorized dealer. See your authorized dealer.
Engine Cranks Slowly	Battery cables damaged or broken internally Battery or starter cable connections loose or corroded	Inspect and replace cables. Clean and tighten connections.

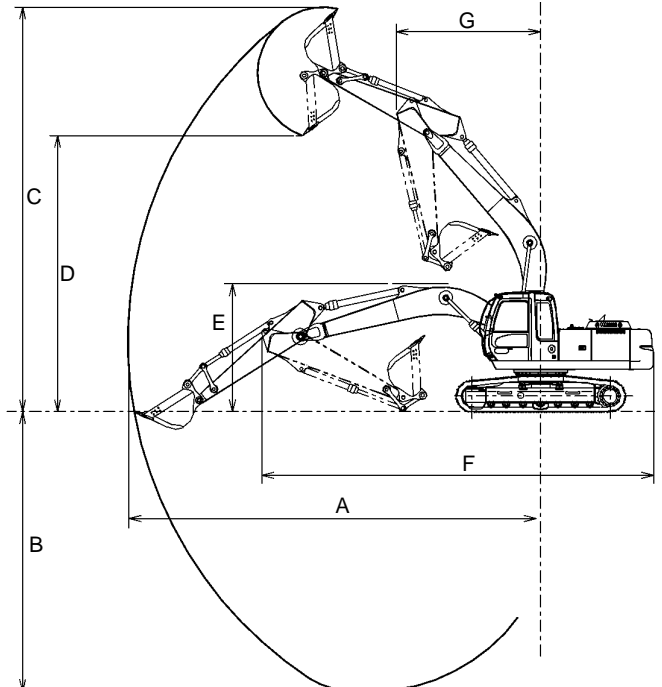
SPECIFICATIONS

WORKING RANGES

ZAXIS210K



Backhoe



Face shovel (Reversed hoe bucket)

M178-12-002

Item	Category	2.91 m (9 ft 7 in) Standard Arm			
		Backhoe		Shovel	
		mm	ft·in	mm	ft·in
A: Maximum Digging Reach		9910	32'6"	10060	33'0"
B: Maximum Digging Depth		*6670	*21'11"	*6820	*22'5"
C: Maximum Cutting Height		*9600	*31'6"	*9850	*32'4"
D: Maximum Dumping Height		*6780	*22'3"	*6720	*22'1"
E: Transport Height		2970 (9'9") (Std) 3080 (10'1") (HG)	9'9"	2970 (9'9") (Std) 3080 (10'1") (HG)	9'9"
F: Overall Transport Length		9500	31'2"	9500	31'2"
G: Minimum Swing Radius		3540	11'7"	3540	11'7"

NOTE: * The dimensions do not include the height of the shoe lug.

OPTIONAL ATTACHMENTS AND DEVICES

BUCKET TEETH (Transverse-Type-Pin-Used Type)

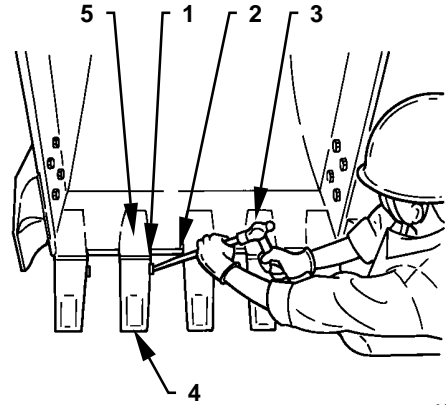
Replacement Procedure

CAUTION: Guard against injury from flying pieces of metal. Wear goggles or safety glasses.

1. Securely lower the bucket to the ground.
2. Use hammer (3) and drift (2) to drive out transverse-type locking pin (1) to remove tooth (4).

NOTE: Be sure to use a drift (2) thinner than pin (1).

3. Clean shank (5) surface. Attach a new tooth (4) onto shank (5). Insert pin (1) as deep as it goes. Then, drive pin (1) using hammer (3) and drift (2) to securely lock tooth (4).



M157-14-013

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL

- Thank you very much for reading the preview of the manual.
- You can download the complete manual from: www.heydownloads.com by clicking the link below



- Please note: If there is no response to CLICKING the link, please download this PDF first and then click on it.

CLICK HERE TO **DOWNLOAD** THE COMPLETE MANUAL