

OPERATOR'S MANUAL

**EH15.B
MINI EXCAVATOR**

87054145NA



**NEW HOLLAND
CONSTRUCTION**

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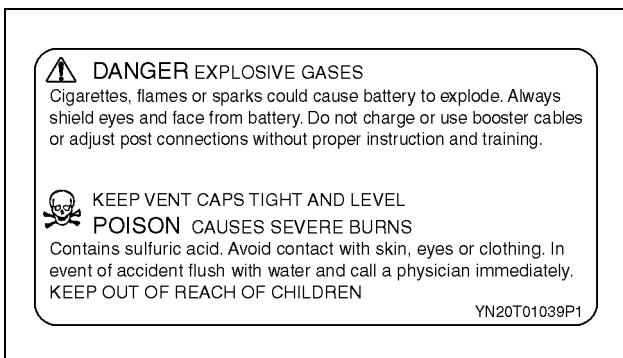
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NOTES

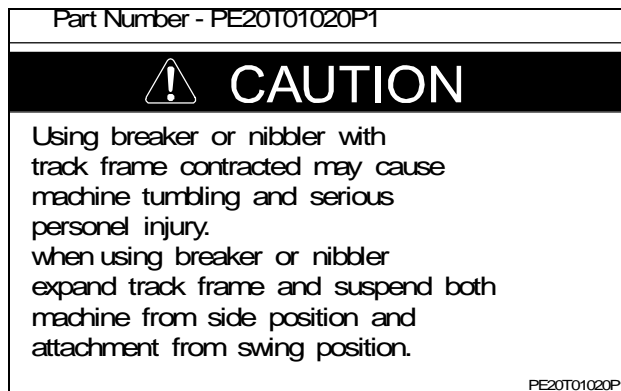


PY20T01069P1

Figure 21

14. PART NUMBER PY20T01069P1

LOCATED ON THE BATTERY



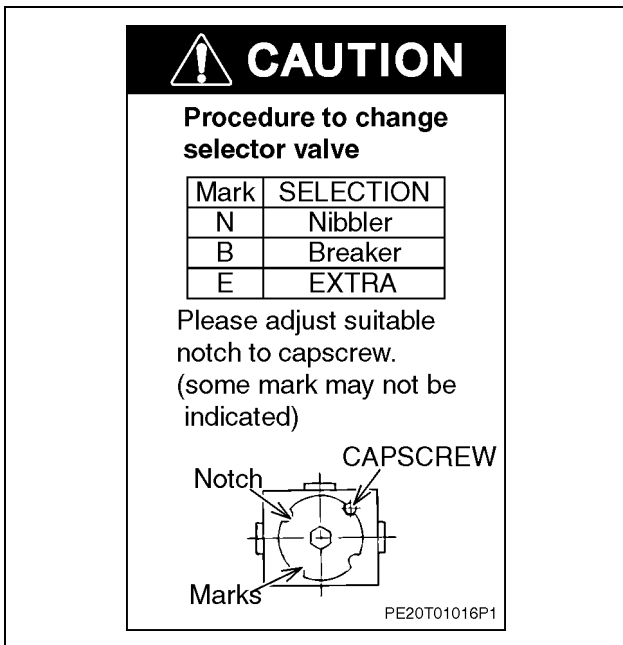
PE20T01020P1

PE20T01020P1

Figure 24

17. PART NUMBER PE20T01020P1

LOCATED ON HANDRAIL

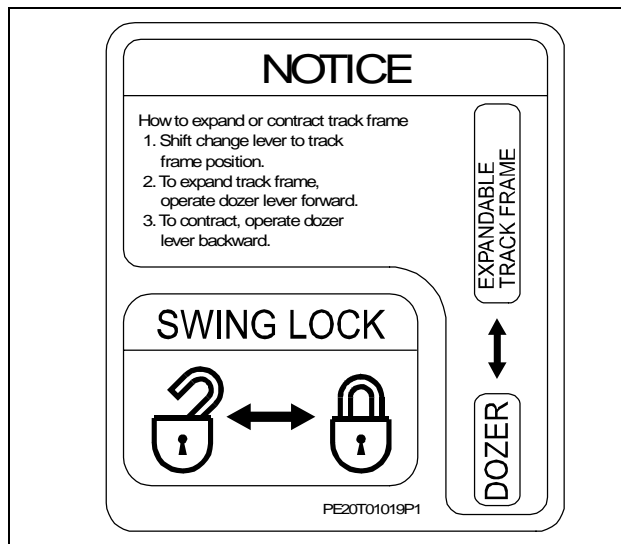


PE20T01016P1

Figure 22

15. PART NUMBER PE20T01016P1

LOCATED ON BOOM

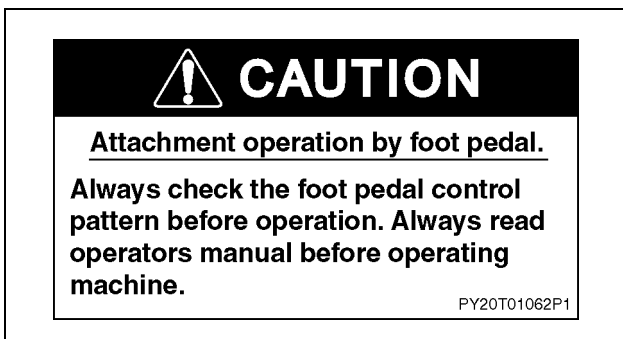


PE20T01019P1

Figure 25

18. PART NUMBER PE20T01019P1

LOCATED ON FRONT COVER



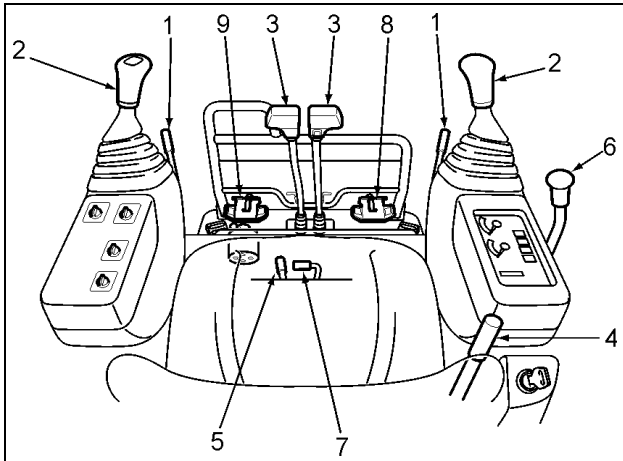
PY20T01062P1

Figure 23

16. PART NUMBER PY20T01062P1

LOCATED ON SEAT STAND

CONTROL LEVERS



BS04J231

Figure 19

1. FUNCTION CANCELLATION LEVER
2. RIGHT/LEFT OPERATING LEVERS
3. TRAVEL LEVERS
4. THROTTLE LEVER
5. CRAWLER WIDTH/DOZER SELECTOR LEVER
6. CRAWLER WIDTH/DOZER OPERATING LEVER
7. SWING LOCK LEVER
8. BOOM SWING PEDAL
9. OPTION PEDAL (NIBBLER & BREAKER)

1. FUNCTION CANCELLATION LEVER

The Function Cancellation Lever is provided to prevent any unexpected operation due to involuntary movement of the operator's control levers.

The shape of the Function Cancellation Lever was designed to prevent the operator from leaving the operator's compartment without having raised the lever beforehand.



WARNING: To access or exit the operator's compartment, the Function Cancellation Lever must be in the raised position. Never try to avoid this basic requirement.



WARNING: Always place the safety lock lever in the LOCKED (up) position before leaving the operator cab. Never leave the machine unattended with engine running or Function Cancellation Lever in the down position.

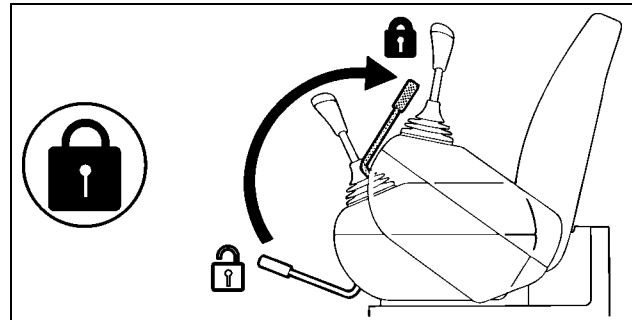
CE-NA000



WARNING: Even when the Function Cancellation Lever is set in the LOCKED (up) position, the functions for dozer are still activated.

CE-NA000

NOTE: When the **Function Cancellation Lever** is set to the LOCKED (up) position, each attachment and swing motor are locked simultaneously, except the dozer blade, even though each lever can be moved, because they are of a hydraulic lock system. However, the travel levers are separately locked with their mechanical locking mechanism to lock the movement itself of the levers.

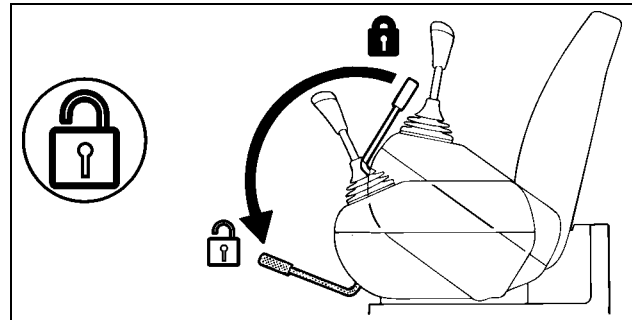


BC02N365

Figure 20

LOCKING HYDRAULIC SYSTEM

When the Function Cancellation Lever is set in the LOCKED (UP) Position the hydraulic system is shut down, **except the dozer blade functions.**



BC02N364

Figure 21

UNLOCKING HYDRAULIC SYSTEM

When the safety lever is set to the UNLOCKED (DOWN) Position all hydraulic functions are active.

15. Never use the attachment for sweeping the ground to level out rubble or push objects (transversal stress on the attachment).
16. Avoid running the engine in a confined space. If there is no alternative, proper ventilation must be provided at all times.
17. Dust, smoke or mist can reduce visibility and cause an accident. Reduce speed or come to a complete halt until visibility has improved.
18. In the event of an operation problem or failure, move the machine to a safe place, lower the attachment to the ground, shut down the engine and remove the starter switch key. Locate the problem, report it if necessary and take the necessary steps to warn others not to attempt to operate the machine.
19. Do not stop the engine without taking prevailing weather conditions into consideration. See Stopping the engine.
20. See Parking the machine when you have to park the machine.
21. Whenever load handling operations are to be carried out, it is imperative to adhere strictly to the instructions given in this manual and local legislation. See Load handling.
22. When travelling with the hydraulic breaker (optional), make sure it is not too close and not pointing in the direction of the cab.

RUN-IN PERIOD

Your machine will last longer and will give better and more economical performance if you pay particular attention to the engine during the first twenty hours of operation.

During this period:

- Warm up the engine before using it under load.
- Do not run the engine for a long period at idle speed.
- Frequently check the instruments on the instrument panel.
- Check the oil levels and coolant solution level frequently.

During the run-in period, the following checks and servicing operations should be carried out in addition to those specified in the service schedule:

AFTER THE FIRST 50 HOURS

Change the engine oil and replace the engine oil filter. Replace the return filter. See Chapter 5.

Check all nuts and screws are tightened to the correct torque. See Hardware torque inspection in Chapter 6.

AFTER THE FIRST 500 HOURS

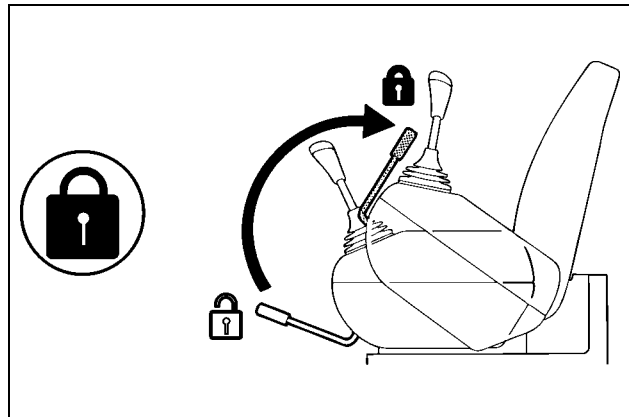
Change the oil in the travel reduction gears. See Travel Reduction Gears in Chapter 5

STARTING THE ENGINE

NOTE: If the machine has been out of use for some time, see *Starting Up After Storage* in this chapter.

NOTE: If you need to start the engine using a booster battery, see *Connecting A Booster Battery* in Chapter 7.

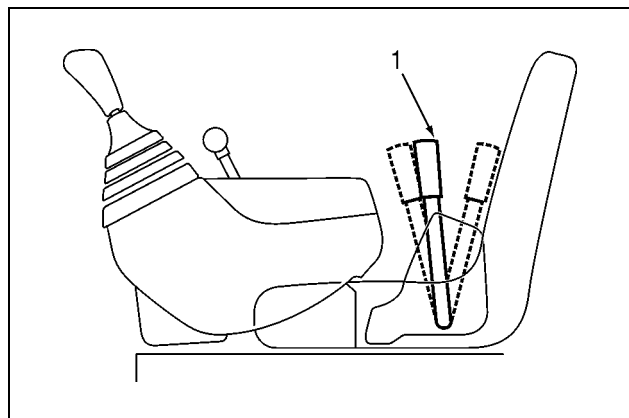
1. Take up position correctly in the operator's seat with the seat belt correctly fastened. See Operator's seat in Chapter 3.



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Figure 1

2. Make sure that the control function cancellation lever is in the RAISED position.
3. Make sure all control levers are set in the NEUTRAL position.



BC02N380

Figure 2

1. CONTROL LEVER
4. Move the throttle control lever (1) approximately 25 mm (1 inch) from the Low Idle position.

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PARKING THE MACHINE

1. Position the machine on flat, level ground, away from soft ground, excavations or poorly shored cavities.
2. Place the upperstructure in line with the undercarriage.
3. Place both travel levers into the NEUTRAL position.
4. Place the bucket or attachment on the ground.
5. Place the dozer blade on the ground.
6. Turn the engine throttle lever to low idle position and let the engine run for approximately five minutes.
7. Shut down the engine and remove the starter switch key.
8. Raise the function cancellation lever.
9. Make sure that the hoods are properly fastened.
10. Check that the no part of the machine is encroaching on the highway. If this cannot be avoided, set up approved traffic signs.



WARNING: *Never jump down from the machine. When leaving from the operator's compartment, or from the upperstructure, always face the machine and use the steps and access handles.*

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OPERATING THE MACHINE ON SLOPING GROUND



WARNING: *Hillside operations can be dangerous. Rain, snow, ice, loose gravel, soft ground, etc. modify terrain conditions. It is up to you to decide if the machine can be used in perfect safety.*

CE-NA000

During hillside operations, be extra careful.

Make sure that the low speed travel is selected.

When digging on a slope, avoid swinging the upperstructure towards the bottom of the slope with the backhoe bucket full. Always keep the travel reduction gears pointing down towards the bottom of the slope.

Always travel in the same direction as the slope, to prevent the machine from turning over.

MOVING A DISABLED MACHINE

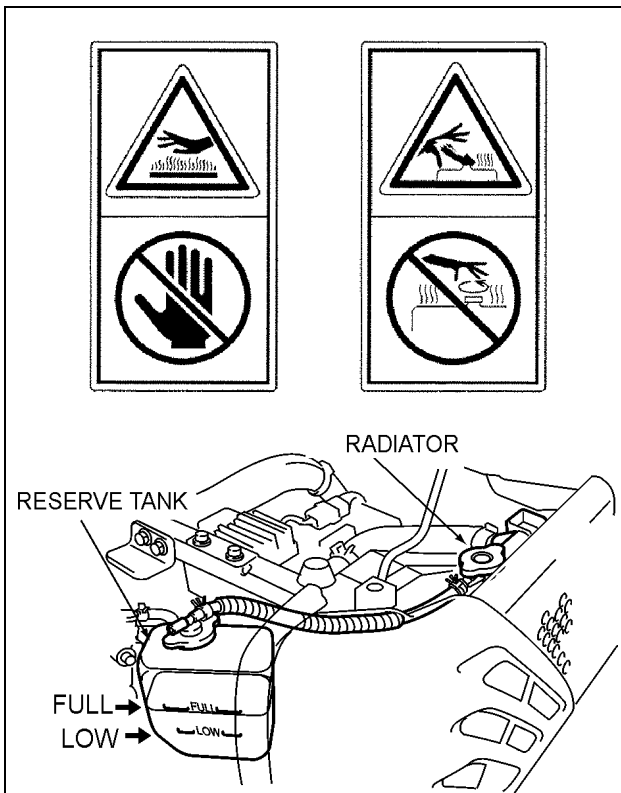
If the machine becomes unable to move contact your Dealer. Do not attempt to move the machine.

LOWERING THE ATTACHMENT IN THE EVENT OF A MACHINE FAILURE

Contact your Dealer if the machine becomes disabled with the attachment up. Do not attempt to lower the attachment.

LUBRICATION AND MAINTENANCE CHART

SERVICE INTERVAL	PAGE NUMBER	SERVICE POINTS	NUMBER OF POINTS	FREQUENCY IN HOURS					
				CHECK	CLEAN	CHANGE	DRAIN	LUBRICATE	REPLACE
As Required	5-16	Radiator core	2	*	*				
	5-16	Radiator cap	1	*	*				
	6-3	Track shoes	2	*	*				
	5-10	Control Levers		*				*	
	6-11	Machine inspection	1	*	*				
	6-12	Fire extinguisher	1	*					
Daily or Every 8 Hours	5-15	Coolant level	1	8					
	5-14	Engine oil level	1	8					
	5-25	Hydraulic system lines		8					
	5-26	Hydraulic reservoir level	1	8					
	6-13	Loose or missing hardware. Bolt and nut torque		8					
	6-3	Rubber track pads	2	8	8				
	5-16	Radiator	1	8					
Every 50 Hours	6-11	Fan / Alternator belt	1	8					
	5-11	Bucket cylinder rod pin	1					50	
	5-11	Arm / Link pin	1					50	
	5-11	Bucket link pin	1					50	
	5-11	Arm / bucket link pin	1					50	
	6-3	Track tension	2	50					
	5-22	Drain fuel tank sediment	1				50		
	5-21	Drain water separator	1				50		
Every 250 Hours	5-21	Clean water separator	1		50				
	5-14	Engine oil and filter change	1			250			250
	5-16	Radiator and oil cooler	1	250					
	5-12	Dozer blade pivot pins	2					250	
	5-12	Dozer cylinder rod pin	1					250	
	5-12	Dozer cylinder pin	1					250	
	5-12	Boom foot pin	1					250	
	5-12	Boom cylinder bottom pin	1					250	
	5-12	Boom cylinder top pin	1					250	
	5-12	Arm cylinder bottom pin	1					250	
	5-12	Arm cylinder top pin	1					250	
	5-12	Boom/Arm pivot pin	1					250	
	5-12	Bucket cylinder bottom pin	1					250	
	5-12	Bucket cylinder top pin	1					250	
	5-12	Swing cylinder foot pin	1					250	
	5-12	Swing cylinder rod pin	1					250	
	5-12	Swing tower	2					250	
	5-31	Air filter element	1	250	250				
	5-13	Turntable (Swing) bearing	1					250	
	6-11	Fan / Generator belt tension	1	250					

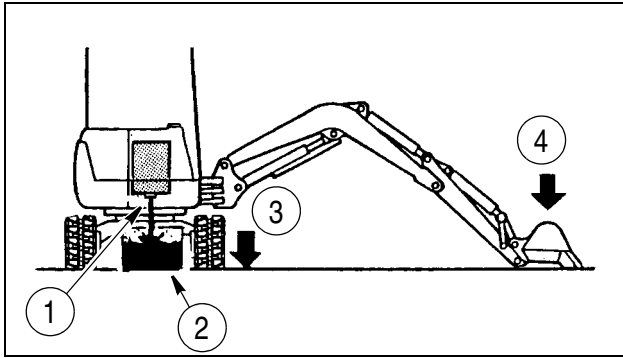


BS04J243/BS04J245

Figure 23

4. Install the cover under the radiator and drain valve.

HYDRAULIC FLUID CHANGE

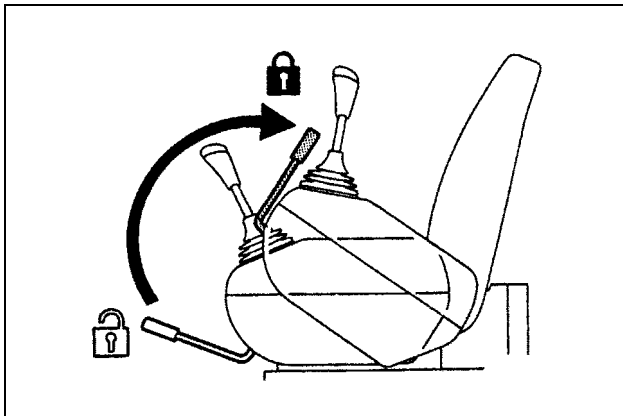


BC02N245

Figure 49

- 1. DRAIN PLUG
- 2. CONTAINER FOR HYDRAULIC FLUID
- 3. DOZER BLADE
- 4. BUCKET

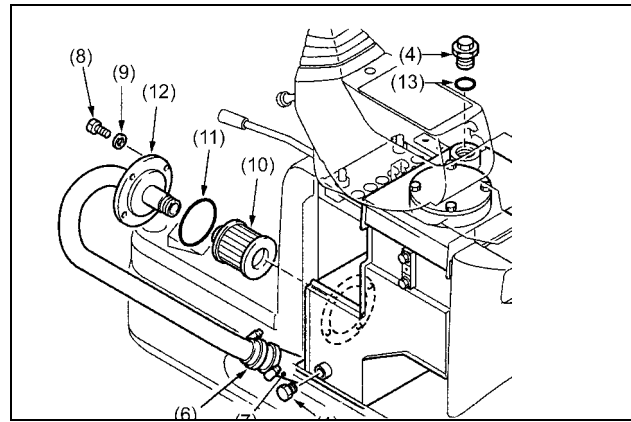
1. Park the machine on flat and level ground.
2. Rotate the machine to put the drain plug for the hydraulic reservoir between the tracks.
3. Fully retract the arm cylinder and bucket cylinder. Lower the boom and put the bucket (4) on the ground.
4. Lower the dozer blade (3) to the ground.
5. Stop the engine.
6. Operate the control levers right to left and front to rear 8 to 10 times to release pressure in each circuit.



BC02N239

Figure 50

7. Pull the safety lock lever up into the locked position.
8. Lift the cover for the hydraulic reservoir and use the support rod to hold the cover in position.
9. Loosen the air plug on top of the air breather to release any remaining pressure in the hydraulic reservoir.



BS04J257

Figure 51

- 1. DRAIN PLUG
- 10. Clean the area around the base of the cover.
- 11. Use an oil suction pump to remove the hydraulic fluid from the hydraulic reservoir. Use a container that will hold approximately 17 liters (4.5 gallons)

Drain Plug

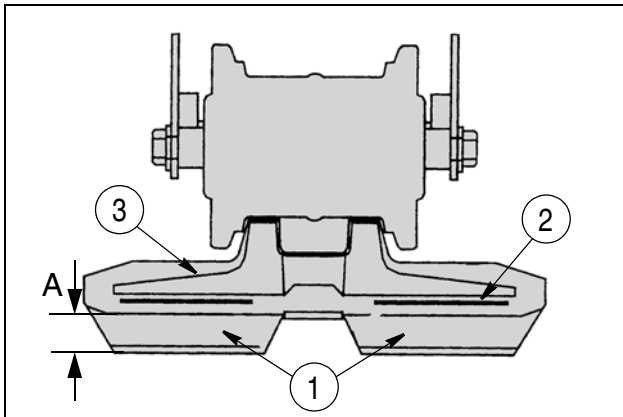
12. Remove the access cover for the drain plug under the hydraulic reservoir.
13. Put a container under the drain plug for the hydraulic reservoir. Use a container that will hold approximately 17 liters (4.5 gallons).
14. Remove the drain plug to remove the remaining hydraulic fluid from the reservoir.

IMPORTANT: *Be careful when removing the drain plug. Hydraulic fluid will flow from the drain hole.*

15. Install the drain plug for the hydraulic reservoir after the hydraulic reservoir is empty. Tighten the drain plug to a torque of 73.5 ± 1.5 Nm (54.2 ± 1.1 lb.-ft.).

CHECKING THE CONDITION OF RUBBER TRACKS

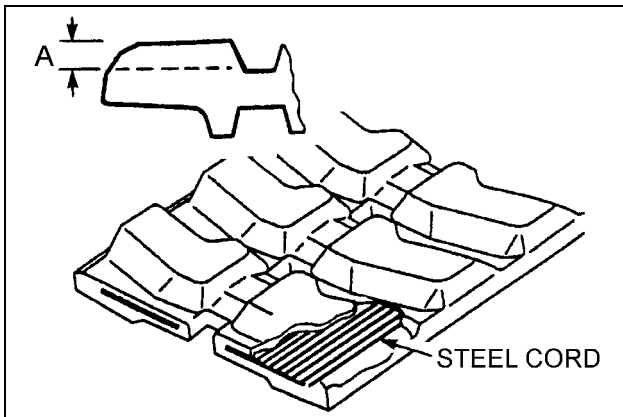
Replace the tracks in any of the following cases:



BC02N269

Figure 10

1. GROUSER (LUG) DEPTH
2. STEEL LAYER (CORD)
3. METAL HUB (CORE)

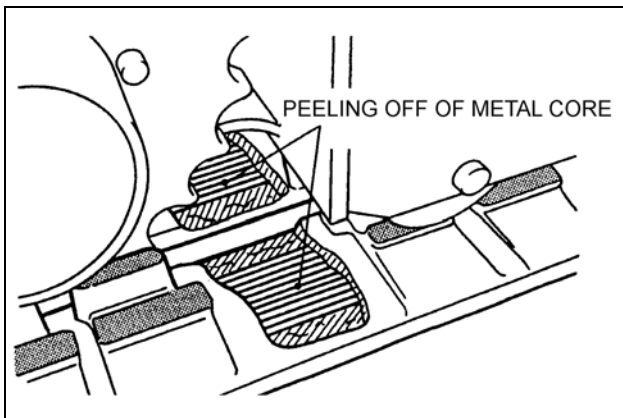


BC02N270

Figure 11

- A. 5 MM (0.2 IN) MINIMUM

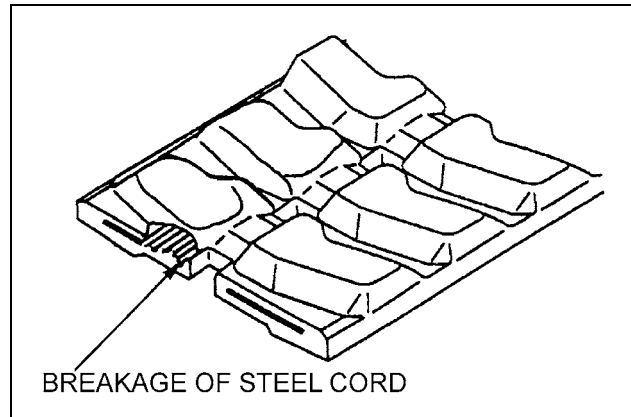
Replace the tracks if the steel cords are exposed by wear of the lugs over two links.



BC02N274

Figure 12

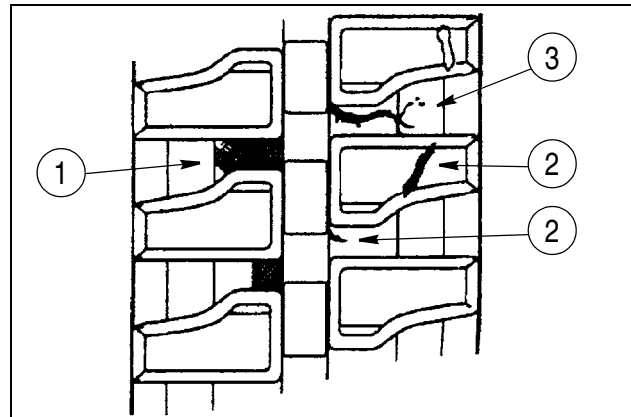
Replace the tracks if the steel cords are exposed over two links.



BC02N271

Figure 13

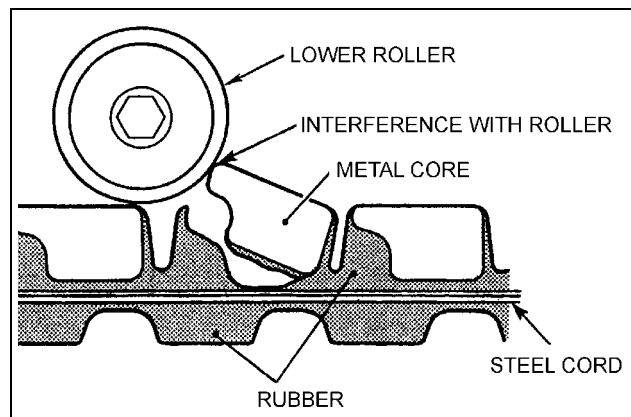
Replace the tracks if the steel cords are broken by more than one half on one side.



BC02N272

Figure 14

1. REPAIR IS REQUIRED
2. REPAIR IS NOT REQUIRED
3. IF CRACK IS OVER 60 MM (2.4 IN), REPAIR IS REQUIRED



BC02N273

Figure 15

Replace the tracks if the metal core starts to separate.

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