

855E Crawler

Operators Manual

9-19261

Reprinted

The CASE logo is located on the right side of the page, within a dark grey vertical bar. It consists of the word "CASE" in a bold, italicized, sans-serif font, with a horizontal line underneath the letters.

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 SAFETY RULES 

Most accidents involving machine operation 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 decals on the machine before you operate or service the machine. See your dealer if you have any questions.



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.

Do not remove this manual or the safety manual from the machine. See your dealer for additional manuals. Also see the inside of the rear cover of this manual.

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

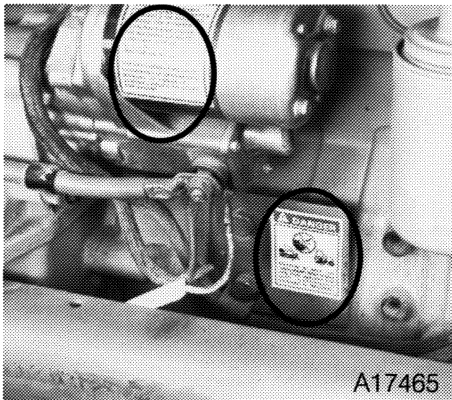
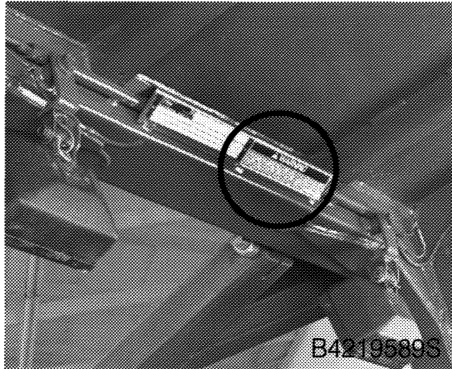
IMPORTANT: *Safety messages in this section point out situations which can be encountered during the normal operation and maintenance of your machine. These safety messages also give possible ways of dealing with these conditions.*

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

⚠ WARNING

DO NOT MODIFY ROPS IN ANY MANNER. UNAUTHORIZED MODIFICATIONS SUCH AS WELDING, DRILLING, CUTTING OR ADDING ATTACHMENTS COULD WEAKEN THE STRUCTURE AND REDUCE YOUR PROTECTION. REPLACE ROPS IF SUBJECTED TO ROLLOVER OR DAMAGE. DO NOT ATTEMPT TO REPAIR. SEE OPERATOR'S MANUAL FOR COMPLETE INSTRUCTIONS AND INSPECTION REQUIREMENTS.

321-4192



⚠ WARNING

WRONG JUMPER CABLE CONNECTIONS TO STARTER TERMINALS OR SHORTING ACROSS THE STARTER TERMINALS CAN CAUSE THE MACHINE TO MOVE SUDDENLY OUT OF CONTROL. YOU CAN BE INJURED OR KILLED.

USE THE CORRECT METHOD SHOWN IN THE OPERATOR'S MANUAL TO CONNECT JUMPER CABLES TO START THE ENGINE.

321-6718

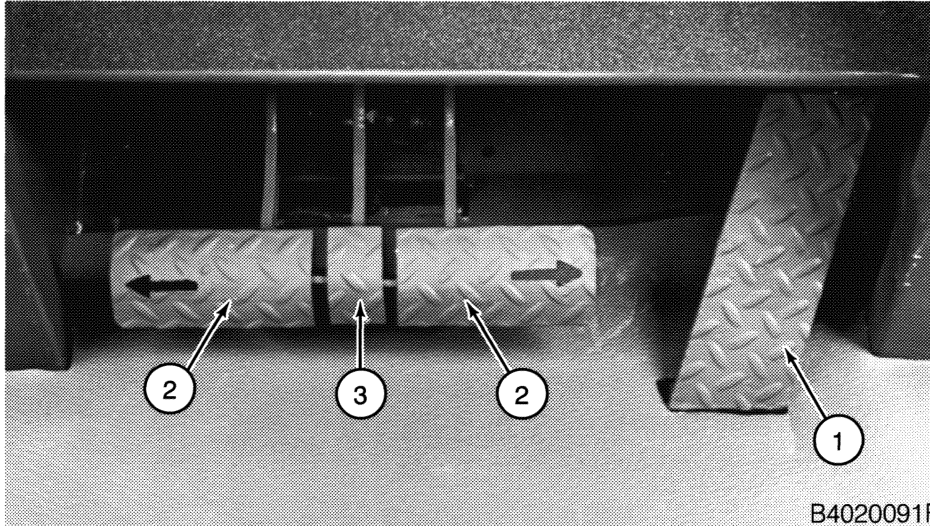
⚠ DANGER

Starting in gear can cause death. Start engine only from operator seat with transmission control(s) in NEUTRAL.

CA 321-7040

720L92

FOOT THROTTLE, STEERING AND BRAKE PEDAL



1. ENGINE FOOT THROTTLE (Standard): Push the engine foot throttle to increase the engine speed. Release the foot throttle to decrease the engine speed.
2. STEERING PEDALS: These two pedals control the steering of the machine. Push the right pedal to turn right and push the left pedal to turn left.

To make a pivot turn, push one of the steering pedals down until the track on that side stops turning.

To make a long gradual turn, push one of the pedals down a small amount. This machine has power to both tracks at all times except when you make a pivot turn, shift to NEUTRAL, or push the center brake pedal.

3. CENTER BRAKE PEDAL: Push this pedal to slow or stop the machine.

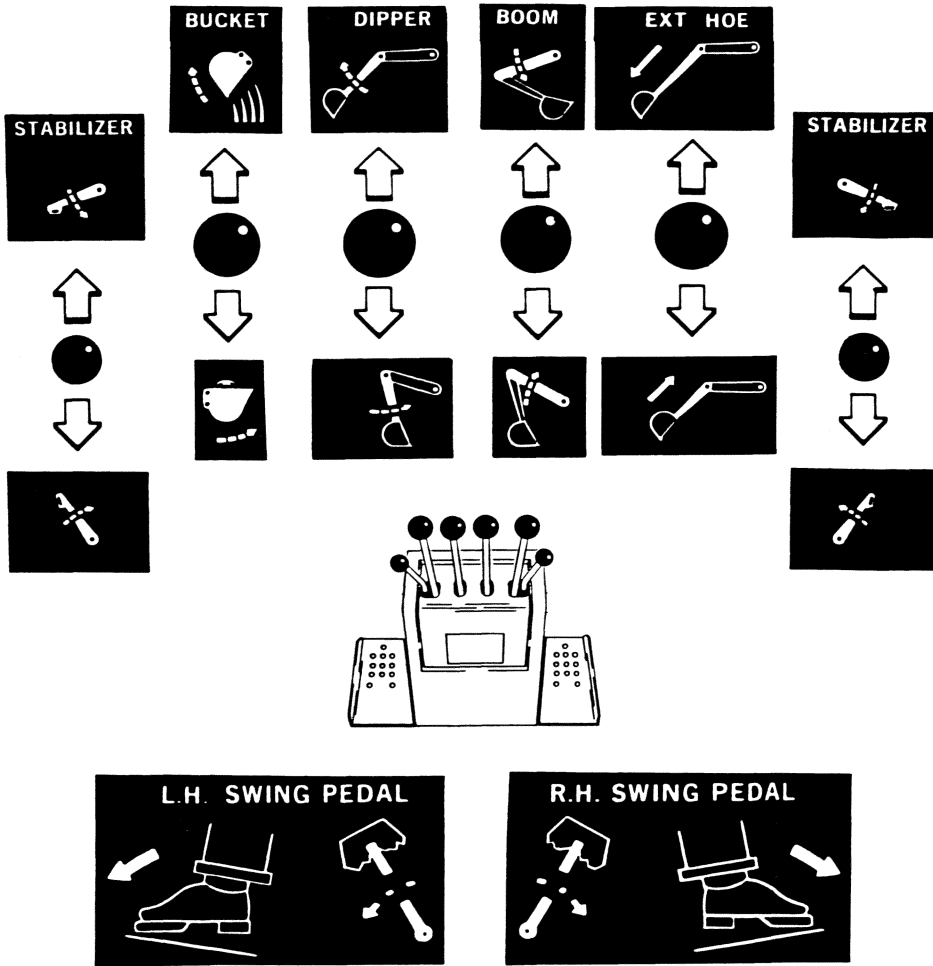
NOTE: For additional information on gradual, power and brake turns, see Pages 55 and 56.



Before you drive down a hill or work on a hill, always shift the transmission to LOW RANGE. Use the center brake pedal to stop the crawler. Do not go down the hill with the transmission in NEUTRAL. The crawler can go out of control and you can be injured or killed.

SB128

EXTENDAHOE CONTROLS WITH FOOT SWING



B841642J

ENGINE OPERATION

Walk-Around Inspection

Do the following items each day before you start the engine.

1. Check for leaks under the machine.
2. Check track tension and check for loose, missing, or broken parts.
3. Check the machine and equipment (loader, ripper, etc.) for wear, damage, or missing or broken parts.
4. Check the machine for debris, especially around the engine area and radiator. Make sure these areas are clean.
5. Clean or replace any safety or instructional decals that cannot be read.
6. Clean the steps, hand rails, and operators compartment. Remove any loose items in the operators compartment.
7. Check the machine for broken, loose or missing parts. Replace, tighten or adjust as required before you operate the machine.
8. See the Lubrication/Maintenance Chart on Page 105 and do the items under 10 Hours.

NOTE: *If this is a new machine, or a machine with a new engine, see Run-In Period on Page 48 for additional information.*

Starting the Engine

NOTE: *TURBO ENGINES: If the weather is cold, if the machine has not been run for several weeks, or if the engine oil filter has been replaced, see Priming the Turbocharger Lines with Oil on Page 118.*

IMPORTANT: *If this is not the machine you would normally operate, check if the machine is equipped with a foot throttle or decelerator. See Page 29 and 30.*

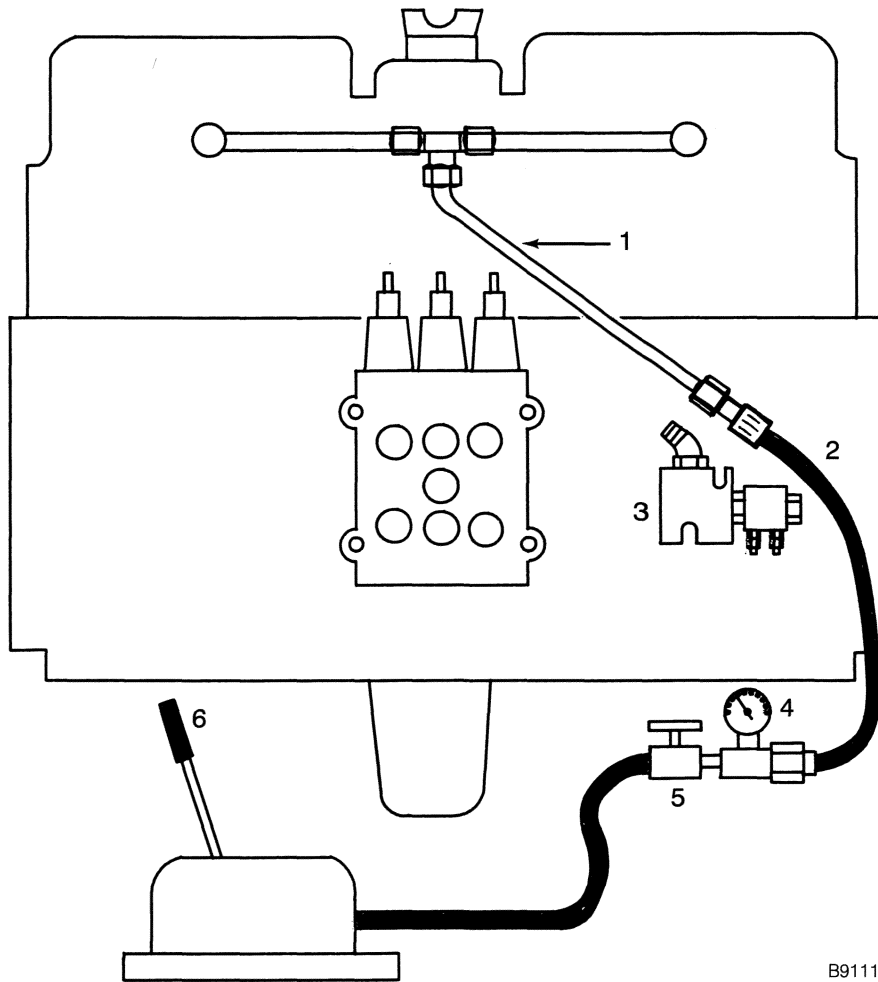
1. Turn the master disconnect switch to ON.
2. Adjust the seat and fasten your seat belt. Make sure you can push the brake pedals completely down with your back against the seat cushion.
3. Make sure the neutral lock/parking brake control is pushed down.
4. Make sure the equipment control levers are in NEUTRAL with the equipment on the ground.
5. Select HIGH or LOW transmission range.



Before starting engine, study operators manual safety messages. Read all safety signs on machine. Clear the area of other persons. Learn and practice safe use of controls before operation. It is your responsibility to understand and follow manufacturers instructions on machine operation, service, and to observe pertinent laws and regulation. Operators and service manuals can be obtained from your dealer.

SB055

OPERATING INSTRUCTIONS _____



B911176J

- 1. BRAKE LINE
- 2. HOSE
- 3. BRAKE SOLENOID VALVE
- 4. PRESSURE GAUGE
- 5. SHUTOFF VALVE
- 6. HAND PUMP

LOADER OPERATION



Always know the location of all workers in your area. Warn them before you start working the machine. Always keep all other persons away from your area. Serious injury or death can result if you do not follow these instructions.

SA015



You are protected by the ROPS system on this machine (Roll-Over Protective Structure). The seat belt is an important part of that ROPS system. Before you operate this machine, always fasten the seat belt. If the machine rolls over and you DO NOT have the seat belt fastened, you can be crushed by the ROPS or the machine.

SA080

The operating tips given in this section do not include all possible conditions. This is basic information that can help you move more material in less time.

If you are a new operator, always operate the machine in an open area at decreased speed until you know the function of each control.

Engine Speed

Run the engine at full throttle when safe. The ground condition and type of job will control the track speed and range position that you use.



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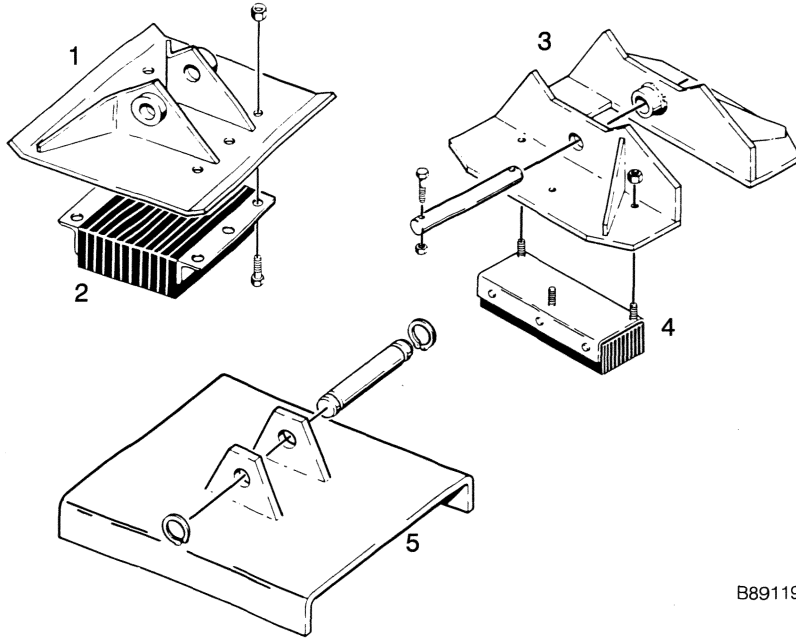


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OPERATING INSTRUCTIONS

Stabilizer Pads

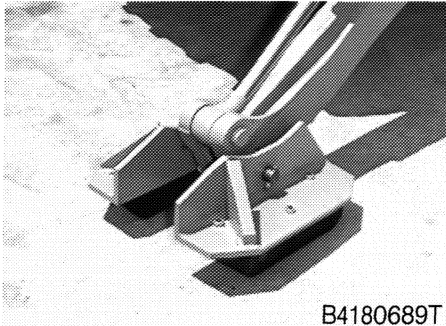


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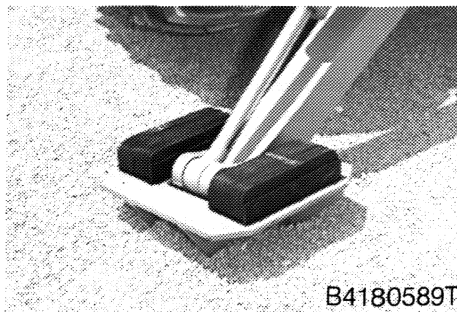
- 1. OPTIONAL STREET PAD
- 2. OPTIONAL RUBBER PAD
- 3. OPTIONAL GROUSER/STREET FLIP OVER PAD

- 4. RUBBER PAD
- 5. STANDARD PAD

Flip Over Pads



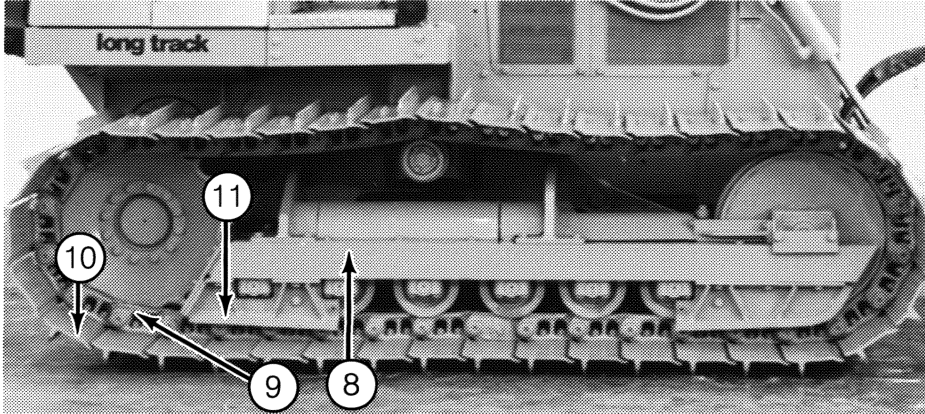
STREET PADS DOWN



GROUSER DOWN

IMPORTANT: You can cause damage to the cab when you raise the stabilizers equipped with flip over pads. To prevent damage, (1) clean each pad of excess mud, rocks, etc., (2) make sure each pad is in the grouser down position before you start raising, and (3) raise each stabilizer slowly to the full up position.

Components of the Undercarriage



8. **TRACK FRAME** - The track frames are attached to the machine chassis on each side. All of the track components except the drive sprockets are attached to the track frames.
9. **TRACK LINKS** - A number of track links make up the track chain assembly. Each link assembly consists of a right-hand and a left-hand link, a track pin (solid with sealed track chains and hollow with (Case Lubricated Track) chains, bushings and seals. Each link assembly is bored at both ends to hold the pins and bushings that connect the two links. The bushing is pressed into each link. A pin is inserted through the bushing and the next set of links is pressed onto the pin.

It is important to understand the construction of the track chain. The pins and bushings of the sealed track are generally the first items of the undercarriage to wear. This wear can (and will) affect the rest of the components in the system.

10. **TRACK SHOES** - The track shoes are installed on the track chain to give traction and flotation for the machine.
11. **TRACK GUIDES** - The track guides help to maintain alignment of the track chain and protect the track.

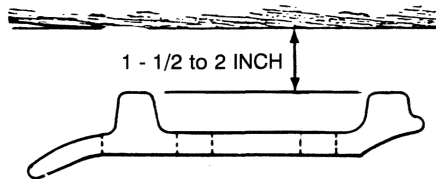
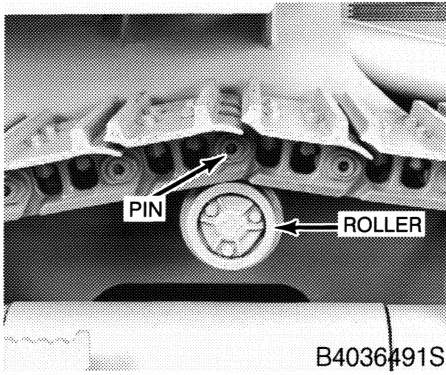
OPERATING INSTRUCTIONS

Procedure to Adjust the Track

1. Do not clean the tracks.
2. Move the machine forward and rearward the length of the track. This will make the bottom of the track tight. Do not use the brakes to stop the machine.
3. Stop the machine so that a pin in the track chain is over the front carrier roller.



NOTE: Measure from the top of the track plate.



B911527J

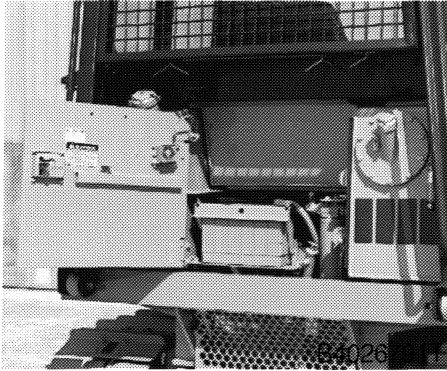
4. Put a straightedge over the track and measure the track deflection midway between the carrier roller and the idler wheel. The correct adjustment is between 1-1/2 to 2 inches (38 to 51 mm).

NOTE: During the operation of the machine, material can stick on the drive sprockets and can cause a loud noise. This noise is made by the chain bushings hitting the drive sprockets. You can reduce this noise by loosening the track tension.

5. If you must adjust the track, see Page 100.

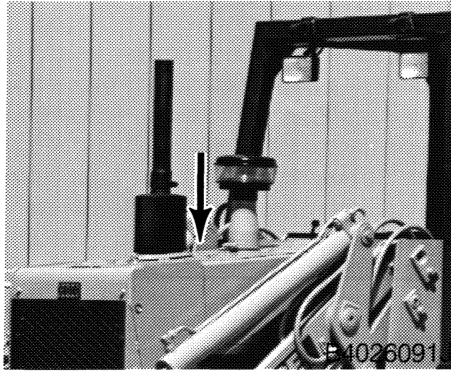
ACCESS DOORS

Rear Compartment

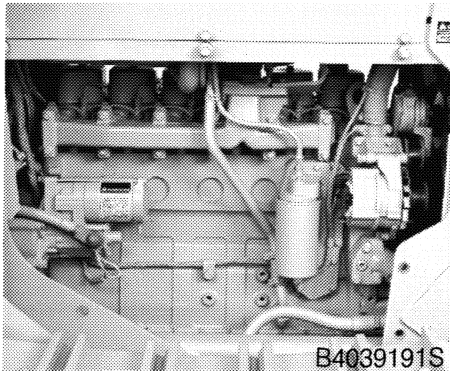


Panel Removed

Hood

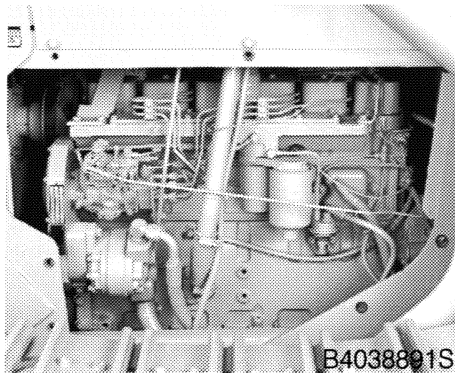


Engine Side Panel - Right



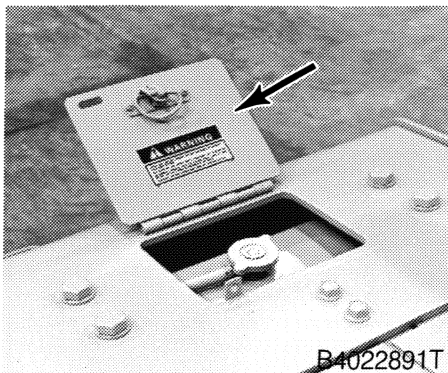
Three Panels Removed

Engine Side Panel - Left



Three Panels Removed

Radiator



Hydraulic Tank



AIR FILTER SYSTEM

Service Specifications

PrecleanerAs required

Dust valve check interval 50 hours of operation

Air filter element service interval Service the elements if the red band in the restriction indicator is in full view. Replace both elements every 2000 hours of operation or once each year.

1. Do not install a new element that is more than five years old. The date of manufacture is on the end cap of the element.
2. Replace both elements after one year in the machine.
3. Do not remove the elements from the machine to check for restriction. Always follow the recommended service instructions in this section.
4. Each time you service the air cleaner system, make sure all hose connections and flanges are air tight. Replace all damaged parts.

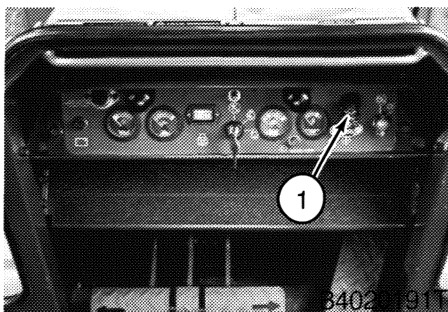
After you service the air cleaner, you must remove the red band from view. Push the button on the restriction indicator and the green band will be in full view again.

Precleaner

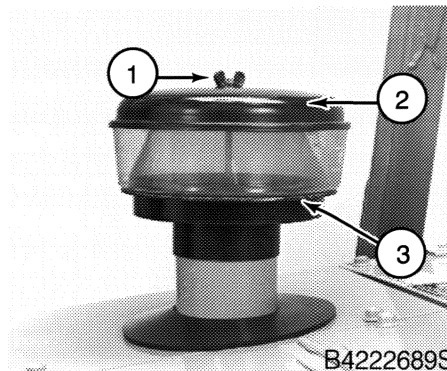
Check the precleaner bowl and remove the dust as required.

1. Loosen the wing nut and remove the cap.
2. Remove the bowl and clean with a damp cloth, install the bowl and cap.

Restriction Indicator



1. RESTRICTION INDICATOR



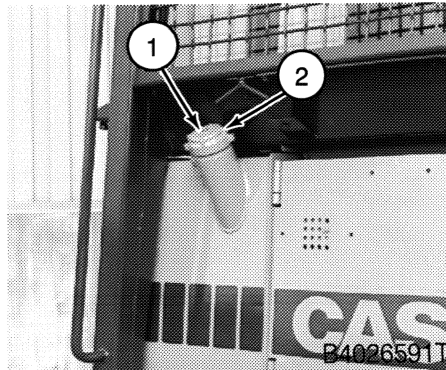
1. WING NUT
2. CAP
3. BOWL

If the red band in the restriction indicator is in full view, clean or replace the air cleaner elements at the end of the shift or day.

Fuel Tank Breather

Clean the fuel cap breather every 1000 hours of operation or if the breather is coated with dirt.

1. Remove the fuel cap.
2. Clean the fuel cap and breather with cleaning solvent.
3. Dry the fuel cap and breather with compressed air.
4. Install the fuel cap.



1. BREATHER
2. FUEL CAP

TRANSMISSION CONTROL LEVER ADJUSTMENT

The track speed control levers and the track direction control lever can be easily shifted from one position to another. Each control lever has a detent that holds the lever in the position selected. If the detent force is too great, shifting the transmission controls will be difficult. If the detent force is too small, the controls will not remain in one position.

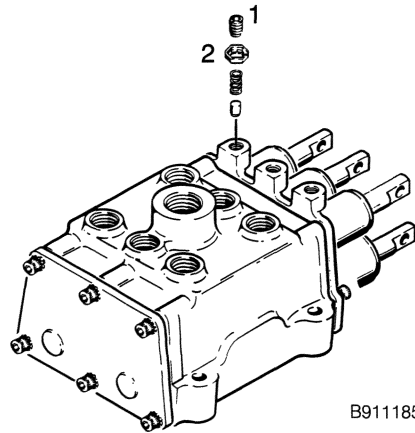
It is recommended that you measure the force that is required to shift each control lever.

1. Attach a spring scale under the knob of one control lever. The spring scale must have the capacity of at least 10 pounds (4.5 kg).
2. Starting in NEUTRAL, pull the control lever with the spring scale. Read the scale as the control lever moves past the detent. Do this several times to get a correct indication.
3. The detent is adjusted correctly when the scale indication is between 6 to 8 pounds (2.7 to 3.6 kg).
4. Check each control lever, there is one detent for each control lever. You must adjust the control lever detent if the indication is greater or less than the value given in Step 3.

To Adjust

1. Stop the engine and apply the parking brake.

2. Remove the seat and the seat base plate by removing the base plate mounting bolts.
3. Loosen the lock nut on the Allen head screw.

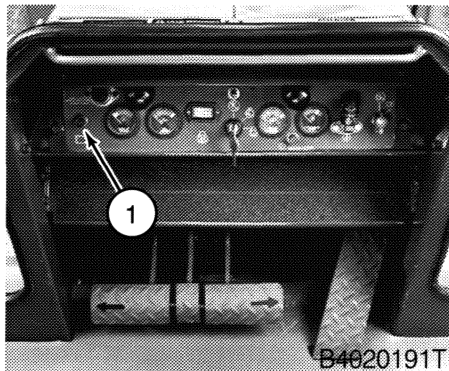


B911185J

1. ALLEN HEAD SCREW
2. LOCK NUT

4. Tighten the Allen head screw to increase the spring scale force or loosen the screw to decrease the force.
5. Check each control lever with the spring scale before you tighten the lock nuts.
6. Install the seat and seat base plate. See Page 144 for correct seat and seat belt mounting hardware torque.

ALTERNATOR WARNING LAMP

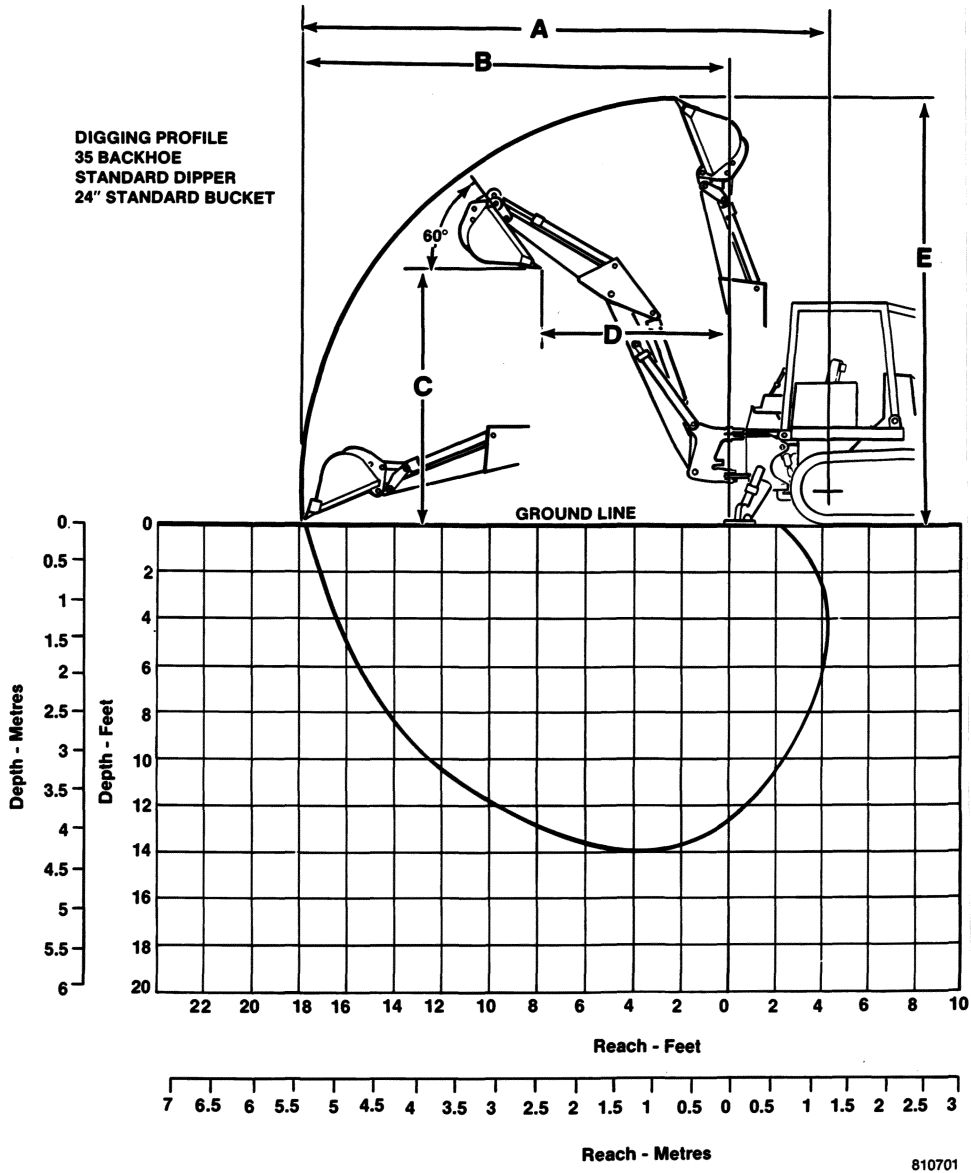


1. Turn the lens counterclockwise to remove.
2. Push bulb in and turn counterclockwise to remove.
3. Install a new 1820 bulb.
4. Install the lens.

1. ALTERNATOR WARNING LAMP

SPECIFICATIONS _____

Backhoe
 Operating Data and Dimensions



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