J.I. Case

Operator's Manual

4490 Diesel

Operator's Manual

CA-O-4490 DSL

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TO THE OWNER OF A CASE TRACTOR

Use this manual as your guide. If you follow the instructions given in this manual, your Case Tractor will work well for many years.

Your Authorized Case Dealer can assist you with J I Case Company made parts and persons with special training that know the best methods of repair and maintenance for your tractor.

Call your Authorized Case Dealer if you need any assistance or information.

Your Authorized Case Dealer

Figure 1

NOTE: *When you are in the tractor seat looking forward, the right hand and left hand of the tractor are the same as your right and left hand.*

REMOTE HYDRAULIC CONTROL

No. 3 Remote Control Lever (If Equipped)

Figure 64

No. 4 Remote Control Lever (If Equipped)

Figure 65

REMOTE HYDRAULIC CONTROL

Variable Flow Control

The No. 1 remote circuit has a variable flow control. The tractor can have a total of four variable flow controls. Use the variable flow control to increase or decrease the rate of flow of hydraulic fluid to the remote couplings. The flow can be adjusted from 24 GPM (90.8 litres/min) maximum to 3.5 GPM (13.3 litres/min) minimum. To decrease the rate of flow, turn the flow control clockwise. Variable flow controls are also located on the remote control valve. The normal flow control setting is 1/4 turn open

Figure 66

REMOTE HYDRAULIC CONTROL

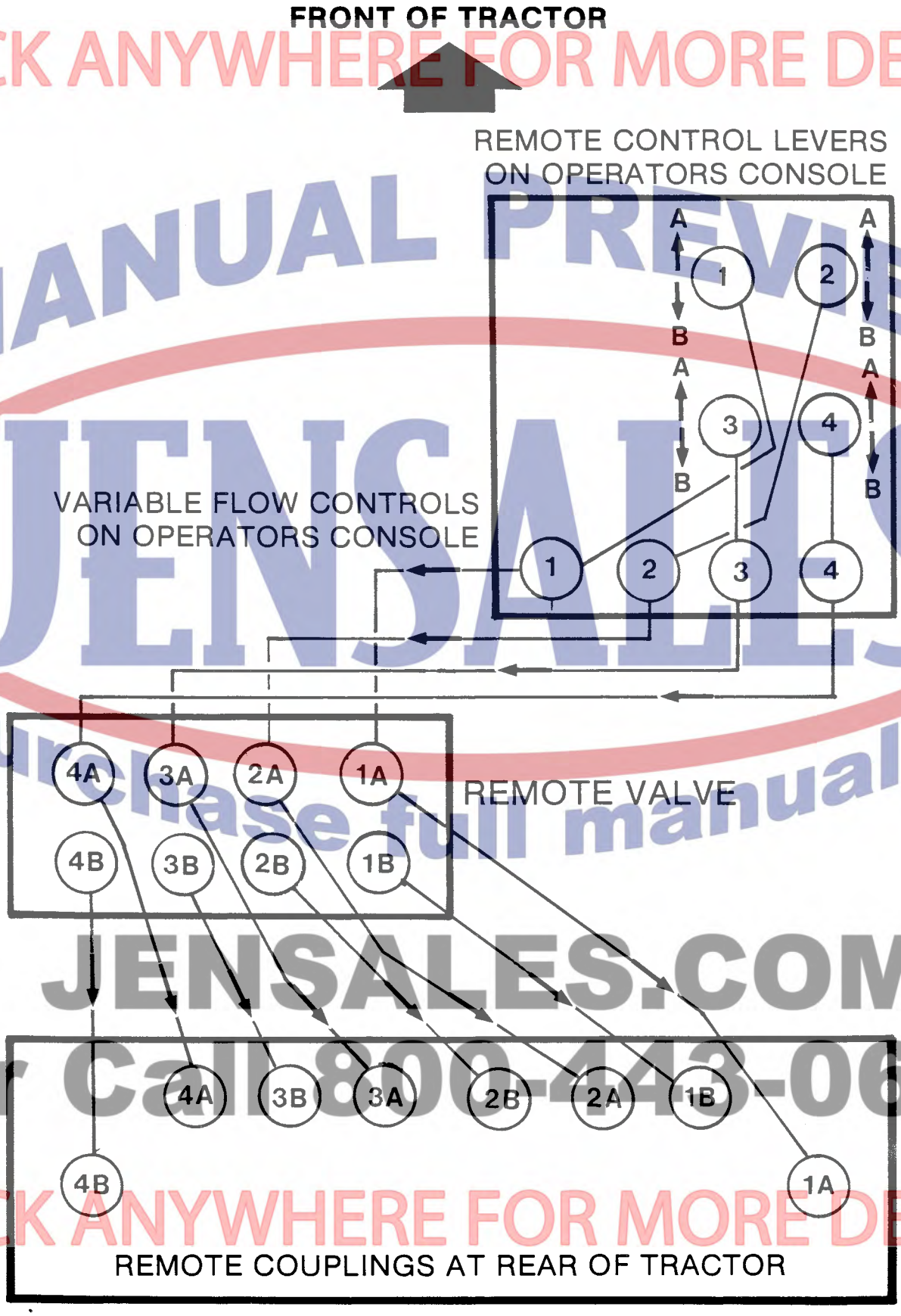


Figure 67

REMOTE HYDRAULIC CONTROL

Operating the Remote Hydraulic Circuits

Connect the implement hoses to the remote couplings so that the implement lowers when the control lever is pushed forward and lifts when the lever is pulled to the rear.

NOTE: *If there is too much restriction in the implement cylinders or other attachments, the restriction can cause a back pressure in the remote valve which will cause the remote lever on the console to return to neutral before the cylinder reaches full stroke. If this condition occurs, use the flow control to decrease the amount of fluid going to the implement. It is normal for the control lever to return to neutral when the cylinders reach full stroke.*

FLOAT OPERATION

Figure 68

Figure 69

To operate the remote hydraulic control in a float condition, turn the control lever stop out of the lever slot. Push the control lever completely forward.

NOTE: *Single action cylinders can be operated in a float or no float operation at the same time that the hitch is operated.*

HYDRAULIC MOTORS

When operating hydraulic motors with the remote system, put the remote control lever in the forward position to run the motor and in the float position to stop the motor. Do not put the control lever in neutral position when the motor is in operation because damage to the motor and hoses can occur. Change hoses in the remote couplings to change the direction of turn of the motor.

REMOTE HYDRAULIC CONTROL

Hydraulic Hose Couplers

The tractor has ASAE R366 Standard Female couplings that fit any ASAE R366 and SAE J1036 Standard male hose coupler.

Your Authorized Case Dealer has ASAE Standard Male couplers, part number A147889 with 7/8"-14 UNF ASAE Standard threads, and A160937 with 1/2"-14 NPTF threads. See Inset A.

If the implement hoses do not have ASAE Standard 7/8"-14 UNF threads, use adapters to change the hoses. You can get the adapters from your Authorized Case Dealer. See Inset B. To adapt a John Deere male hose coupling to the tractor standard female coupling, use coupling adapter A160879. For adapting International Harvester male hose couplers, use coupling adapter A160880.

MANUFACTURER (HOSE)	ADAPTER PART NUMBER
J I CASE	A135687 (INSET C)
JOHN DEERE	A135688 (INSET D)
INTERNATIONAL HARVESTER	218-5095 (INSET E)

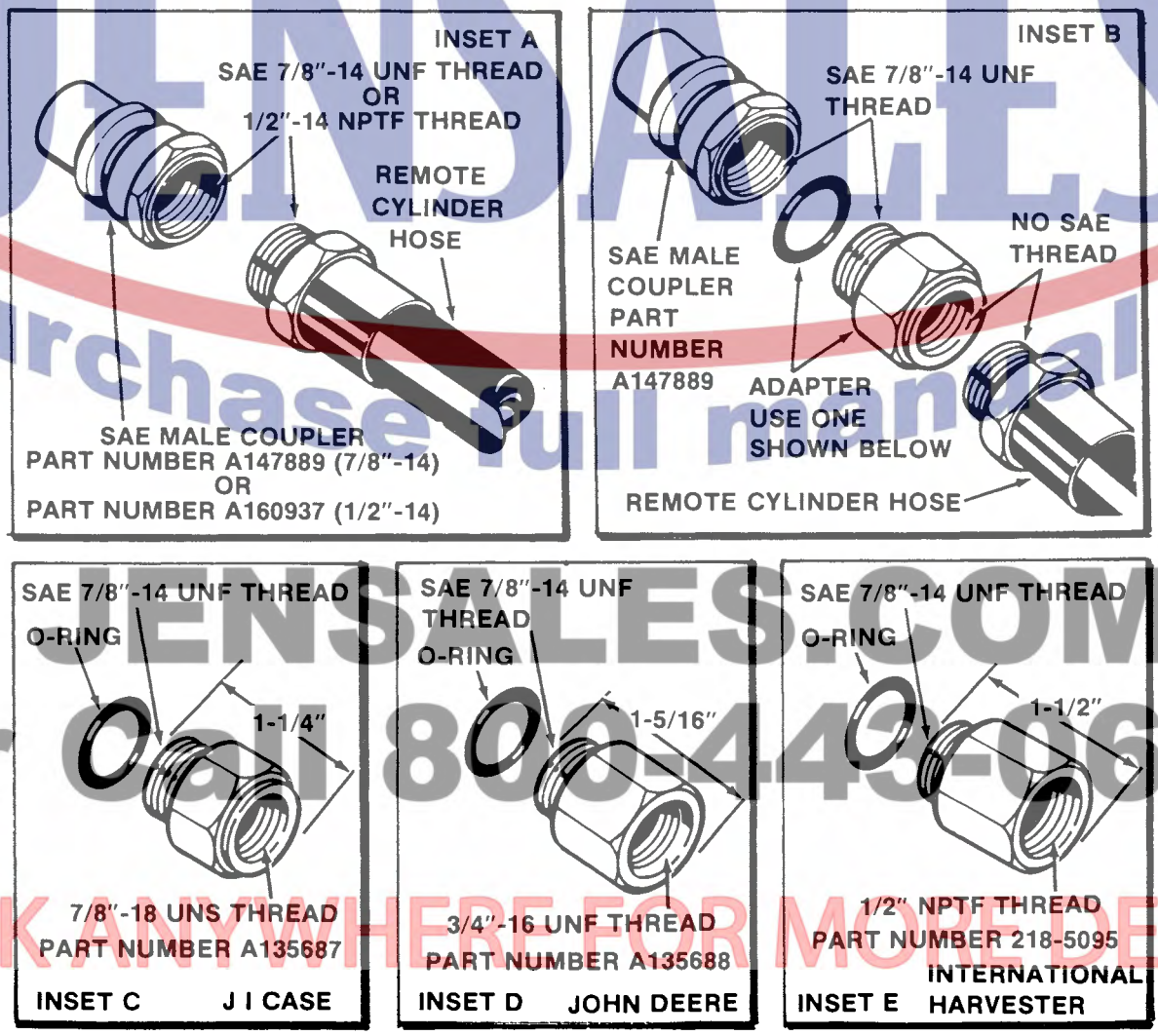


Figure 70

AIR INDUCTION SYSTEM

Tubes and Hoses

Check all hoses and tubes for cracks or wear, Replace if needed. Wash the induction system tubes in Case Filter Element Cleaner. Replace the vacuator valve if the valve is worn or damaged. Replace the air cleaner gasket if needed. When you assemble the parts, make sure the hoses are installed on the parts a minimum of 1-11/16 inches (42.9 mm).

NOTE: *When the turbocharger intake hose is removed from the engine, check the inside of the hose for dust. If dust is found, completely wash the air intake system and the intake manifold. Check for leaks in the air intake system and the safety element.*

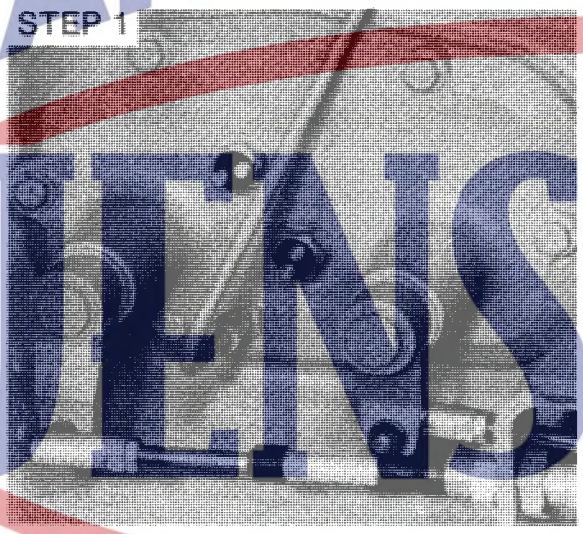
Figure 94

NEUTRAL START SWITCH ADJUSTMENT

If the engine does not start with the range shift lever in Neutral position, or starts with the range shift lever in a gear position, use the following procedure to adjust the switches.

IMPORTANT: *If the neutral start switches are loose, do not tighten the switches because the engine can then start with the transmission gears engaged. You must fully adjust the switches as shown below.*

STEP 1



Put the range shift lever in Neutral position. Transmission gear shift levers will be in a vertical position.

STEP 3

Install neutral start switches without shims.

STEP 2

Remove neutral start switches and shims.

STEP 4

Connect a battery operated test lamp across the terminals of the top switch. Turn the top switch into the transmission until the test lamp illuminates.