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MANUAL PREVIEW

Caterpillar

Operator's Manual

D7 Crawler

S/n 48A1 & up

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CT-O-D7 48A&UP

OPERATOR'S INSTRUCTIONS

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CATERPILLAR TRACTOR CO.

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INSTRUCTIONS

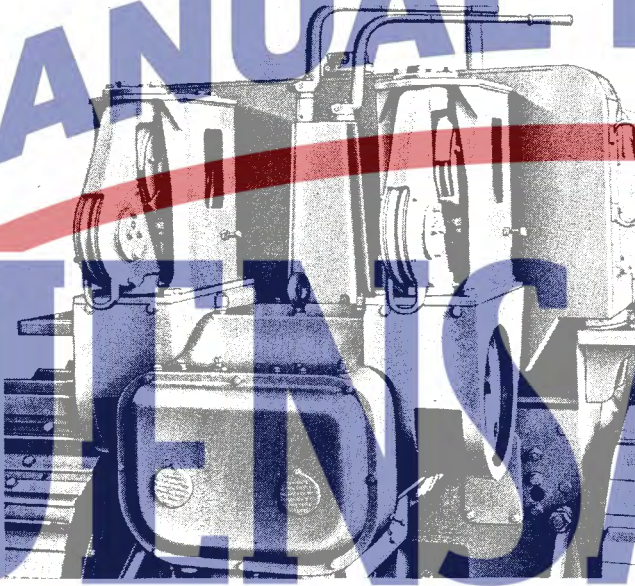
for

“CATERPILLAR” CABLE CONTROLS

Adapted for Tractors

D8, RD8, Diesel 75, D7 (7M1 and Up),

D6 (4R1—5R1 and Up)



INSTALLATION — DOUBLE DRUM TYPE

When installing or removing the cable control unit, use the lifting eye provided for this purpose.

Remove the cover from the rear of the transmission case. Then, remove the cork from the two holes just below this cover and from the two larger tapped holes near the top edge of the transmission case in order to install mounting studs. Use two guide studs about 7" or 8" long in the two lower holes.

Place the coupling which connects the transmission upper shaft and the unit drive shaft into position on the transmission shaft. Line up the splines on the unit drive shaft with those in the coupling. Place the cork gasket on the adapter mounting before sliding the unit onto the guide studs and into place. Tighten the nuts evenly around the adapter flange. Remove the guide studs and install mounting studs and nuts.

Control Levers

The position of the operator's control levers can be varied as desired to accommodate the individual. By loosening the clamp bolt and removing the lever from the serrated shaft, the operator can then replace the control lever in the desired position.

Threading Cable

After threading the cable through the sheave assembly, the cable can be drawn through an opening on the flange of the cable drum and secured into position by the cable clamp.

The cable capacity of a drum on either the single or double drum unit is 242 ft. Use $\frac{1}{2}$ " cable; none other is recommended.

INSTALLATION — SINGLE DRUM TYPE

The single drum cable control is mounted in the same manner as the double drum unit except in cases where the control lever is mounted in front of the seat. The following instructions cover those cases.

D6

The control lever bracket is mounted on the right fender and is connected to the control rod (which passes under the seat) by a short cross shaft. It is necessary to drill five holes in the fender to mount the bracket. The fender rear cross plate and floor plate must be cut away for the control rod and lever.

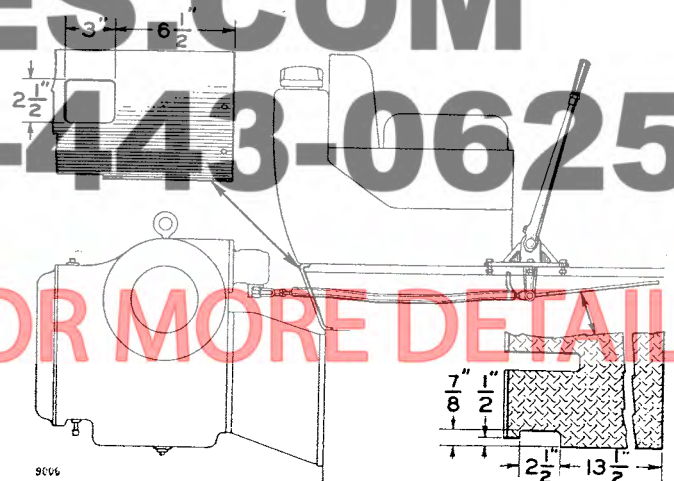


Table of Contents

CLICK ANYWHERE FOR MORE DETAILS

LUBRICATION INSTRUCTIONS Page 5-16

Service Meter — General Lubricating Information —
Description of Lubricants — Lubrication Chart

OPERATION INSTRUCTIONS 17-32

Preparing the Tractor for Use — Starting the Engines —
Gauges — Driving the Tractor — Steering the Tractor
— Operating Over an Obstruction — Operating in Deep
Mud or Water — Continuous Operation on Stationary
Work — Stopping the Tractor — Stopping the Diesel
Engine — Daily Care — Starting in Cold Weather —
Storage — Altitude Operation

MAINTENANCE INSTRUCTIONS 33-69

Air Cleaners — Washing the Crankcase — Fuels —
Care of the Fuel Supply — Care of the Diesel Fuel Tank
— Fuel Filtering System — Priming the Fuel System —
Fuel Injection Equipment — Cooling System — Pressure
Control Valve — Belt Adjustment — Diesel Engine
Valve Clearance Adjustment — Starting Engine Valve
Clearance Adjustment — Starting Engine Ignition and
Fuel Systems — Starting Engine Clutch — Steering
Clutches and Brakes — Tracks — Final Drive Sprocket
Hub Bearings — Washing Gear Compartments —
Electrical System — Electric Starter — Seat Adjustment

INDEX 71-72

CAPACITIES Inside Back Cover

LOCATION OF SERIAL NUMBER Inside Back Cover

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DRIVING THE TRACTOR

The tractor is equipped with a power shift transmission having three speeds in forward or reverse and is controlled by the speed selector lever mounted at the left of the operator's seat. The lever, when moved actuates a hydraulic control which directs oil into the chambers of the various clutches, of which there are five, thus producing the desired speed and direction of travel.

Two of the five clutches control direction of travel and are called directional clutches, one clutch controlling forward direction, the other reverse.

Three clutches control the speed in either direction and are called speed clutches. Shifting from one speed to another while traveling in either direction can be accomplished with the diesel engine running at any speed and with the tractor operating under light or heavy load conditions. Normally the decelerator would be depressed to reduce engine speed when making a directional change but it is permissible to make directional changes at full engine speed. Detents within the transmission hold the control lever in the desired position.

CAUTION

The safety lock lever should be placed in the ON position whenever the tractor is allowed to stand with the engine running. The safety lock prevents the accidental engagement of the transmission.

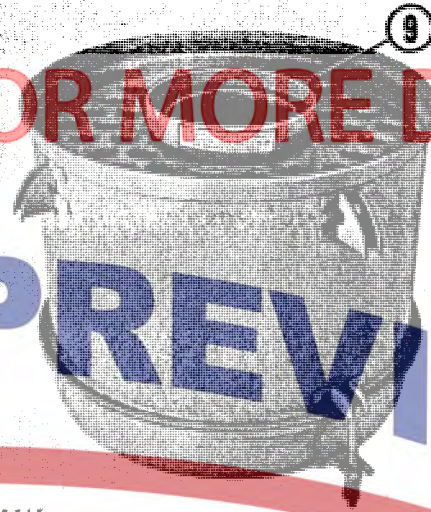
The transmission speed selector lever positions are shown here and appear on the control housing.

Before applying any load allow the diesel engine to warm by running the engine five minutes with the governor control lever in half engine speed position. During the warming period the power shift transmission speed selector control lever should be in neutral (N) position.



T36808

SPEED SELECTOR LEVER
POSITION DIAGRAM

**AIR CLEANER**

1-Element upper seal. 2-Filter element.
3-Upper body seal. 4-Element lower
seal. 5-Lower body gasket. 6-Lower
body. 7-Lower body seal. 8-Dust col-
lector cup.

**FILTER ELEMENT WING NUT
LOCKING RING**

9-Locking ring.

3. While the lower body is removed for cleaning inspect the air cleaner inlet tube and remove any accumulation of dust.
4. Inspect the upper body seal (3) and lower body gasket (5), replace them if they are damaged, then install the lower body.

Filter Element:

1. Remove the dust collector cup and lower body.
2. Remove the wing nuts and the filter element (2).
3. Clean the filter element by using one of the methods in the topic, FILTER ELEMENT CLEANING.
4. Thoroughly clean all parts of the air cleaner. Inspect all replaceable seals (3) and (7) and gaskets (5) and replace with new ones if damaged.
5. Inspect the element. If upper seal (1), lower seal (4), or the element are damaged, install a new element.
6. Install the filter element and the filter element retaining wing nuts. Tighten the wing nuts securely to prevent dust from by-passing the air cleaner filter element.
7. Align the filter element retaining wing nuts so locking ring (9) will slip over the wing nuts when the lower body is installed to prevent the wing nuts from turning.
8. Make sure the upper body seal (3) and lower body gasket (5) are in place and install the lower body. Complete the assembly by installing the dust collector cup. This type of air cleaner requires no oil.

Index

	Page		Page
Air Cleaners	33	Fuel Pressure	23
Altitude Operation	32	Oil Pressure	22
Ball and Roller Bearing		Torque Converter Pressure ...	23
Lubricant	6-14	Torque Converter Temperature	23
Battery	64	Transmission Oil Pressure ...	23
Belt Adjustment	49	Water Pressure	23
Brake Adjustment,		Water Temperature	22
Steering Clutch	59	Generator	65
Capacities	Inside Back Cover	Generator Belt	49
Carburetor Adjustment	52	Generator Regulator	66
Care of the Diesel Fuel Tank	40	Linkage Adjustment, Steering	
Care of the Fuel Supply	40	Clutch	58
Clutch, Starting Engine	55	Lubricating Grease	6
Continuous Operation on		Lubricating Information, General	5
Stationary Work	27	Lubrication Chart	7B
Coolants	46	Lubrication Instructions	5
Cooling System	46	Lubrication of Miscellaneous	
Draining	47	Points	5
Crankcase Lubricating Oils	6-8	Maintenance Instructions	33
Crankcase Lubricating Oil		Model View	4
Change Period Chart,		Oil Specification Chart	7
Diesel Engine	7A	Operating Downgrade	26
Daily Care	28	Operating in Deep Mud or	
Decelerator	25	Water	27
Description of Lubricants	6	Operating Over an Obstruction	26
Diesel Engine Valve		Operation Instructions	17
Clearance Adjustment	50	Pinion Engagement Adjustment	57
Diesel Fuel Tank Filler Cap	41	Position Controls for Starting ..	18
Driving the Tractor	24	Preparing the Tractor for Use ..	17
Electric Starter	68	Pressure Control Valve	49
Electrical System	64	Primary Fuel Filter	41
Final Drive Sprocket		Priming the Fuel System	43
Hub Bearings	63	Pumps, Fuel Injection	46
Final Fuel Filter	42	Regulator, Generator	66
Fuel Filter Elements	42	Seat Adjustment	68
Fuel Filtering System	41	Serial Number	
Fuel Injection Equipment	44	Location	Inside Back Cover
Fuel Injection Pumps	46	Service Meter	5
Fuel Injection Valves	44	Spark Plug Adjustment	54
Fuel Supply, Care of the	40	Starter, Electric	68
Fuel System, Priming the	43	Starting Engine Clutch	55
Fuel System, Starting Engine	52	Starting Engine Clutch and	
Fuels	39	Pinion Control Lever	
Fuel Tank, Care of the Diesel	40	Adjustment	56
Gauges	22	Starting Engine Fuel Filter	53
Ammeter	23	Starting Engine Ignition System	54

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INDEX—Continued

	Page		Page
Starting Engine Fuel System	52	Tractor Initial Service	17
Starting Engine Ignition		Tractor Recheck	17
and Fuel Systems	52	Type of Lubricants and	
Starting Engine, Storage	31	SAE Grades to Use	7
Starting Engine Valve			
Clearance Adjustment	52	Valve Clearance, Diesel Engine	50
Starting in Cold Weather	29	Valve Clearance, Starting	
Starting the Diesel Engine	20-30	Engine	52
Starting the Engines	18	Valves, Fuel Injection	44
Starting the Starting Engine	19-30	Valve Rotators, Check	51
Steering Clutches and Brakes	58		
Steering the Tractor	26	Washing Gear Compartments	64
Stopping the Tractor	27	Washing the Final Drives	64
Stopping the Diesel Engine	28	Washing the Starting	
Storage	31	Engine Transmission	64
Testing Battery	64	Washing the Crankcase	38
Tracks	60	Wiring	66

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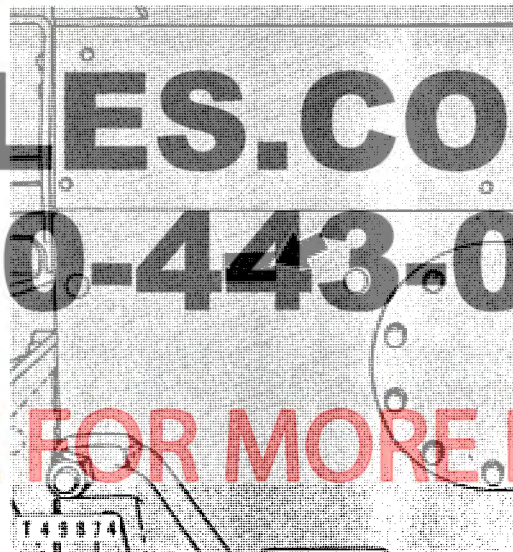
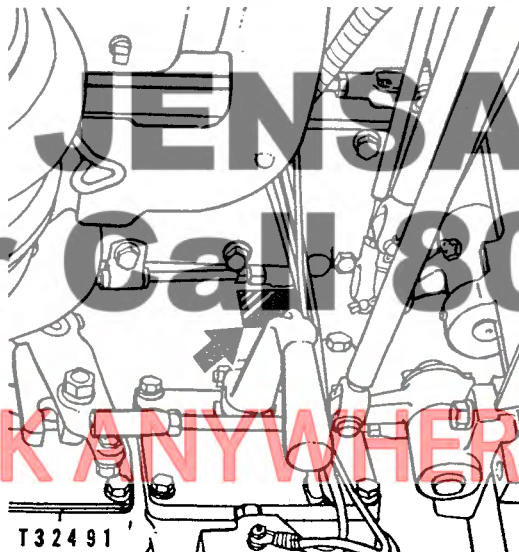
Capacities

Approximate Quantities

	U.S. Measure	Metric Measure (Liters)	Imperial Measure
Diesel Engine Crankcase Lubricating Oil System Tractors effective with 48A2642	26 qt.	24,5	21.5 qt.
Tractors before 48A2642	24 qt.	23	20 qt.
Starting Engine Crankcase	2½ qt.	2,4	2.1 qt.
Air Cleaner, Starting Engine	¾ qt.	0,8	0.7 qt.
Fuel Tank, Diesel Tractors effective with 48A1306	115 gal.	435,3	95.8 gal.
Tractors before 48A1306	102 gal.	386	85 gal.
Fuel Tank, Starting Engine	5 qt.	4,7	4.2 qt.
Cooling System	22 gal.	83,3	18.3 gal.
Final Drive (each)	9 gal.	34	7.5 gal.
Transmission, Bevel Gear and Steering Clutch Compartment* (Without 171 Hydraulic Control)	31 gal.	117,3	25.8 gal.
(With 171 Hydraulic Control)	34 gal.	128	28.5 gal.
Transmission, Starting Engine	1¼ qt.	1,2	1.1 qt.

*This capacity may be increased up to 10% only when operating under extreme conditions of tilt. See the LUBRICATION INSTRUCTIONS and the topic, DRIVING THE TRACTOR.

Location of Serial Number



T32491

T49974