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Carco

**Service, Part, &
Operator's Manual
EA Winch**

**On International
TD-9 Crawler**

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CAR-SOP-EA

Service, Part, & Operator's Manual

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SERVICE AND PARTS MANUAL
WITH MOUNTING INSTRUCTIONS
FOR CARCO MODEL EA WINCH
ON INTERNATIONAL TD-9 TRACTOR

MANUAL PREVIEW

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SPECIFICATIONS

Cable Drum Sizes

Barrel Diameter..... 6"
Flange Diameter..... 15"
Length of Barrel..... 11½"

Cable Capacities

3/4" Wire Rope..... 252'
5/8" Wire Rope..... 365'
9/16" Wire Rope..... 450'
1/2" Wire Rope..... 570'

Line pull in pounds at speed in feet
per minute based on 45.91 HP
@ 933 RPM PTO speed.

UNDERWIND:

Bare Drum..... 23,000 lbs. @ 66 FPM
Full Drum..... 10,450 lbs. @ 145 FPM

OVERWIND:

Bare Drum..... 16,300 lbs. @ 93 FPM
Full Drum..... 7,500 lbs. @ 202 FPM

HEIGHT from ground to center of
cable drum..... 33-29/64"

WEIGHTS: Applied Weight..... 960 lbs.
Shipping Weight..... 1100 lbs.

PACIFIC CAR AND FOUNDRY COMPANY
RENTON, WASHINGTON, U. S. A.

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FORM 100 F

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MOUNTING INSTRUCTIONS

PREPARE TRACTOR FOR MOUNTING ADAPTER PLATE AND WINCH. This work is made much easier if the tractor is placed under cover with proper facilities such as welding and lifting equipment available.

Remove the bearing shield, power takeoff shaft and all cork fillers from rear of transmission case, all dirt and chunks of dried paint should be removed, leaving clean smooth areas for

the adapter plate to contact. The Back-up Light must be changed from its position on the left hand fender over to the opposite side to allow room for the control rods.

To allow clearance for the control levers and adapter plate, the fender must be burned or sawed off $\frac{1}{2}$ " from the remaining light mounting holes (A Figure 1). The part to be removed is shown by the dotted lines (B Figure 1).



Figure 1

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FORM 101 F

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MANUAL PREVIEW

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Figure 3

The shift lever (*A Figure 5*) is now placed in position with the key in place and the locking bolt securely tightened. (Note: This lever cannot be installed after the winch is in place as can be seen in (*Figure 5*).) Next place gasket (*21 Figure 8*) in place with cement or heavy grease and assemble the power takeoff shaft. Use two rivets in position (*A Figure 4*). (If the rivets are not placed in the two remaining holes on the extreme ends of the shaft, it may be removed to facilitate work on the trans-

mission without removing the winch.)

Using the lifting fixture or chain hoist, balance the winch with power takeoff shaft in position (*Figure 4*). Lift the winch into place. This operation is made much simpler if care is taken to balance the winch when it is swung into place. The approximate location of the center of gravity is shown on front page of this section of the book. A drawing of a lifting fixture that can be made in any welding shop is also shown.

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MOUNTING INSTRUCTIONS

With the winch lifted to the proper height, push it forward toward the tractor, and at the same time turn the motor over slowly by hand until the splines of the power take-off shaft engage in the coupler splines of the transmission shaft. Then push the winch up against the adapter face. It will help to "wiggle" the winch during this operation.

Use special head bolt in position (*B Figure 6*) to enable bolt head to clear casting. All cap screws must be inserted using lockwashers and must be tightened evenly and securely. (Caution: Do not allow the weight of the winch to rest on the power take-off shaft or any

one of the cap screws, only when all bolts and cap screws are tight should the lifting device be released.) The brake lever and the long clutch lever should now be placed in position with the keys in place and the clamping bolts securely tightened.

Referring to *Figure 7*, note the position of the control stand and reinforcing plate. The fender anchor bolts should be removed, two in front in the positions indicated by (*A Figure 7*) and the two in the rear end of plate. Bolts furnished should be placed in these holes, also the four control stand hold-down bolts, three as shown by (*B Figure 7*). This



Figure 4

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FORM 102 B

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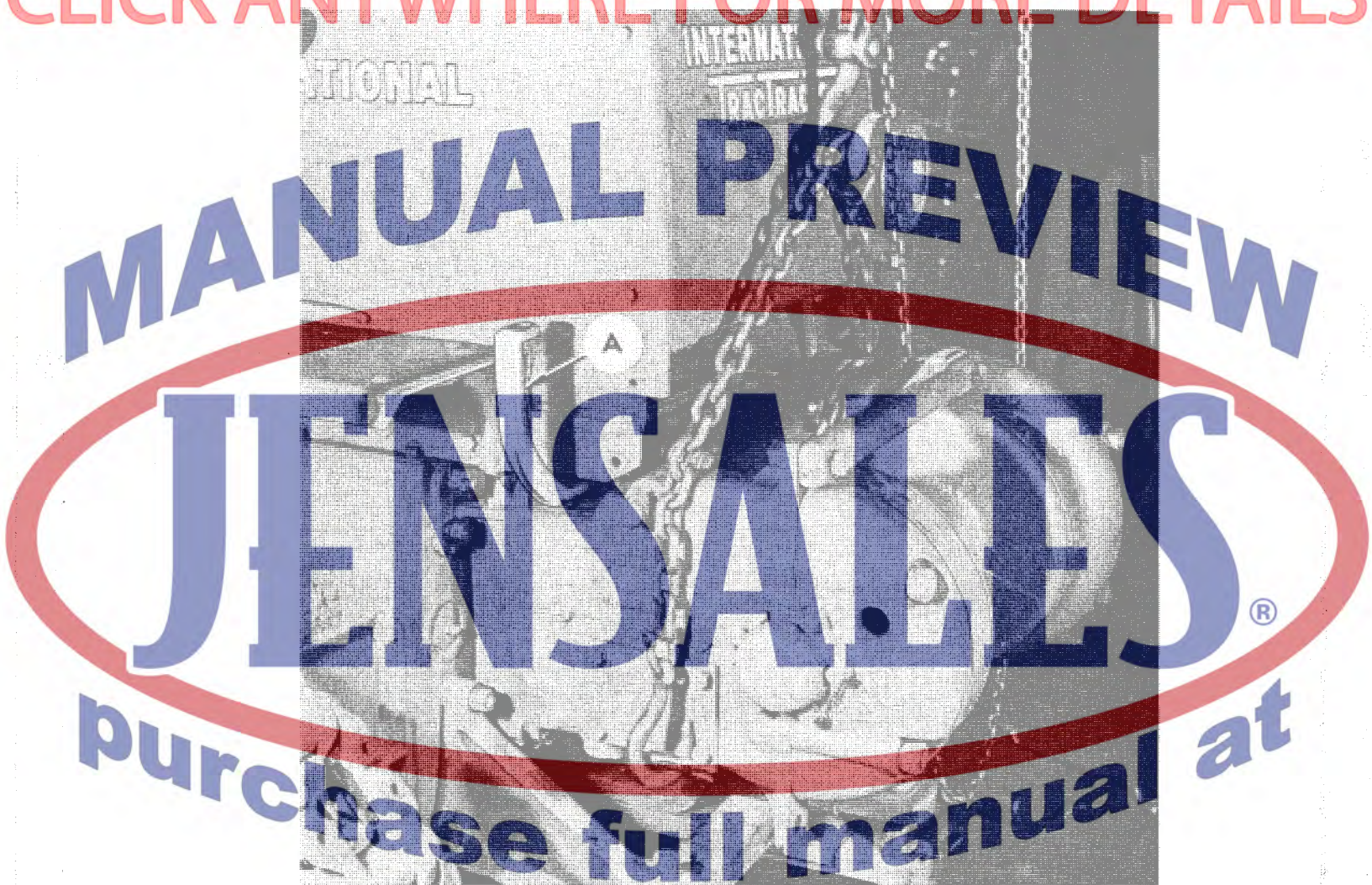


Figure 5

will place the center line of the control stand approximately 2 feet 2½ inches from rear face of transmission, all bolts should be tightened securely using lock washers.

INSTALLATION OF GEAR SHIFT CONTROL. Remove the top cover plate, position the gear so this is in neutral position and not touching either gear. This is illustrated in (A Figure 5 of Service

Instructions). Place this shift lever in neutral position and straight up. Then

by screwing rod ends (11 Figure 8) adjust the length of control rod to line up with the bolt hole in the shift lever (A

Figure 5) and the bottom end of shift hand lever (D Figure 7), place connecting pins in position, insert cotter pins and tighten the jam nuts against the rod

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