

INSTALLATION AND PARTS MANUAL

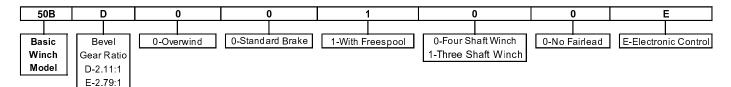
FOR D6N SERIES Tier 4 TRACTORS

NOTE: This manual covers winch installation and parts, specific to the tractor or tractors listed above. For all other common winch parts, refer to Carco Winch Parts Manual LIT2115.

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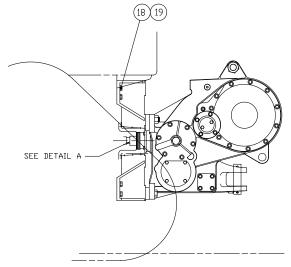
MODEL NUMBER DESCRIPTION

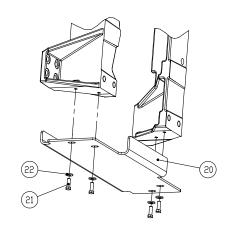


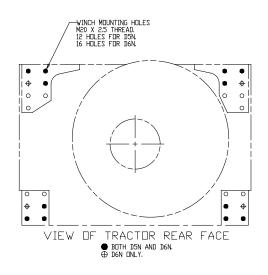
PACCAR WINCH

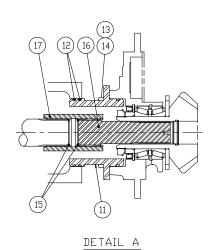
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MODEL50B MOUNTING GROUP D5N & D6N



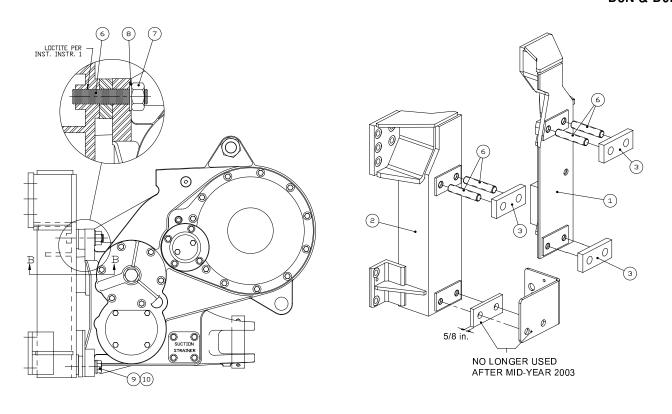




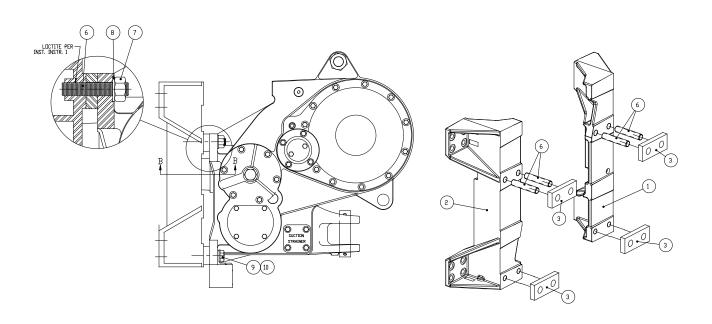


ITEM	PART NO.	DESCRIPTION	QTY
1	104387	MOUNTING BRACKET, RH	1
2	104386	MOUNTING BRACKET, LH	1
3	109000	SPACER PLATE	4
6	100655	STUD, 1-1/8 - 7 X 5.75 GD B7	4
7	104143	NUT, HEX 1-1/8 - 7 GD8 Z	4
8	103484	WASHER, HARDENED (1-1/8)	4
9	103640	CAPSCREW, HEX HEAD (1 - 8 X 4 GD8 Z)	4
10	101205	WASHER, HARDENED 1, Z	4
11	104042	PILOT, PTO	1
12	69850	O-RING	3
13	104320	CAPSCREW, HEX HEAD ((1/2 - 13 X 1 GD8 Z)	4
14	100859	WASHER, 1/2 NOM, HARD, Z	4
15	68870	RETAINING RING	2
16	104041	SHAFT, PTO	1
17	69056	COUPLING	1
18	104169	CAPSCREW, HEX HEAD (M20 X 2.5 X 50 GD 10.9 Z)	16
19	103261	WASHER M20 HARD Z	16
20	104091	GUARD	1
21	104320	CAPSCREW, HEX HEAD (1/2 - 13 X 1 GD8 Z)	4
22	102987	WASHER, HARD, 1/2 Z	4

Early Fabricated Mounting Brackets



Current Fabricated Mounting Brackets



MODEL 50B ADAPTER & MOUNTING GROUP D5N & D6N

NOTE: Due to interference with the winch mounting brackets, tractors equipped with the manual fuel priming pump, P/N 186-5814, must be converted to the electrical fuel priming pump, P/N 225-7654, by installing all the parts listed below:

		•
QTY	CAT PART NO.	DESCRIPTION
1	150-4046	ADAPTER ASSEMBLY
1	8T-6869	BOLT
2	7X-2539	BOLT
1	178-7319	BRACKET ASSEMBLY
1	220-5946	CLIP
1	164-5562	CONNECTOR ASSEMBLY
1	251-3096	FILM-PRIMER SW
6	8T-9655	MOUNT
3	5C-7261	NUT
2	164-5619	PLUG ASSEMBLY
1	225-7654	PUMP GP PRIMING
2	191-1783	SPACER
1	191-1782	SPACER
1	165-5970	SWITCH AS-TOGGLE
3	9N-0869	WASHER-HARD
4	8T-4224	WASHER-HARD

Notes:

- PTO rotation is counter clockwise (CW) as viewed from rear of tractor.
- 2. PTO pilot (11) is used in several applications. Usually only one o-ring (12) will engage and seal in the tractor PTO opening.
- 3. Ensure that installation operations are completed before Loctite thread locking compound hardens.
- Remove paint, rust, dirt and oil from mounting surfaces of winch, tractor and winch adapter brackets. If necessary, clean tapped holes in tractor rear face to ensure full thread engagement.
- 5. All fasteners and tapped holes that will be used with thread locking compound must be thoroughly cleaned with solvent to remove all traces of oil.
- 6. Refer to illustrations on pages 1 and 2.

▲ WARNING ▲

Winch weighs approximately 2,200 lb (1000 kg). Make certain lifting equipment has adequate capacity. Failure to use adequate lifting equipment may result in property damage, injury or death.

Installation Instruction:

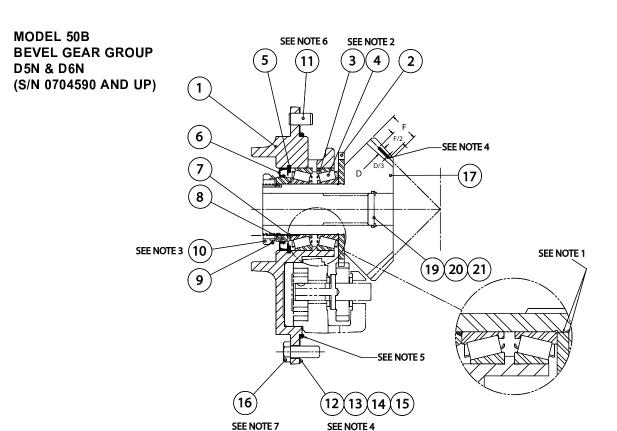
- Install the tractor transmission filter modification group that is appropriate for your model and serial number tractor. This must be done before the winch is installed due to restricted access once the winch is in place. Refer to tractor modification information on page 4.
- 2. Winches are typically shipped with the adapter brackets installed. If they have been removed, install the adapter brackets as described below:

△ CAUTION △

Winch adapter brackets weigh approximately 140 pounds (64 kg). Make certain lifting equipment has adequate capacity. Failure to use adequate lifting equipment may result in inury.

- a. Apply Loctite 271 or 277 or equivalent to approximately 1.5 in. (38 mm) of bracket-end of studs (6). Install the studs into the top winch mounting holes of brackets (1, 2) to a projected height of 3.75 in. (95 mm).
- b. Place spacer blocks (3) over the studs and install mounting brackets onto winch. Install washers and nuts (7, 8) partially to hold brackets in place.
- c. Apply Loctite 242, 243 or equivalent to capscrews (9) and install lower spacer blocks and capscrews onto mounting brackets.
- d. Tighten nuts (7) to 600 lb.-ft. (815 (n-m) torque. Tighten capscrews (9) to 680 lb.-ft. (920 N-m) torque. If torque wrench adapters are not available for tightening the nuts (7) they may be reliably tightened as follows: Tighten nut with hand wrench to approximately 100 lb.-ft. (136 N-m) torque to remove all looseness from assembly. Mark the position of a wrench flat on each nut, then tighten each nut one (1) additional wrench flat.
- 3. Install o-rings (12) onto PTO pilot and coat with general purpose grease.
- 4. Install two retaining rings (15) into grooves of coupling (17). Apply moly-type grease to splines of the PTO shaft (16) and install into the bevel pinion. Install coupling onto bevel pinion with the chamfered side toward the tractor.

- 5. Install two, 1 -8 UNC lifting eye-bolts into the top of the winch case. Lift winch into position and carefully align the winch PTO coupling with the tractor PTO shaft splines. It may be necessary to turn the winch bevel pinion by hand to assist alignment of the winch and tractor shaft. Remove the winch top cover to gain access to the bevel gears. Adjust winch position up/down and side-to-side to minimize loads on PTO shaft.
- 6. Apply Loctite 242, 243 or equivalent to the threads of capscrews (18) and install with washers (19). Evenly tighten capscrews (18) to 390 lb.-ft. (530 N-m) torque.
- 7. Fill winch to proper level with recommended transmission-drive train oil. Refer to the Operators and Preventive Maintenance Manual or Service Manual for recommended oil. Start tractor and check for leaks around PTO pilot. Listen for unusual gear train noise that may be caused by misaligned winch-to-tractor PTO shafts. If noise is detected, support weight of winch with hoist, loosen all winch mounting capscrews and reposition winch. Retighten mounting capscrews to specified torque after aligning winch.



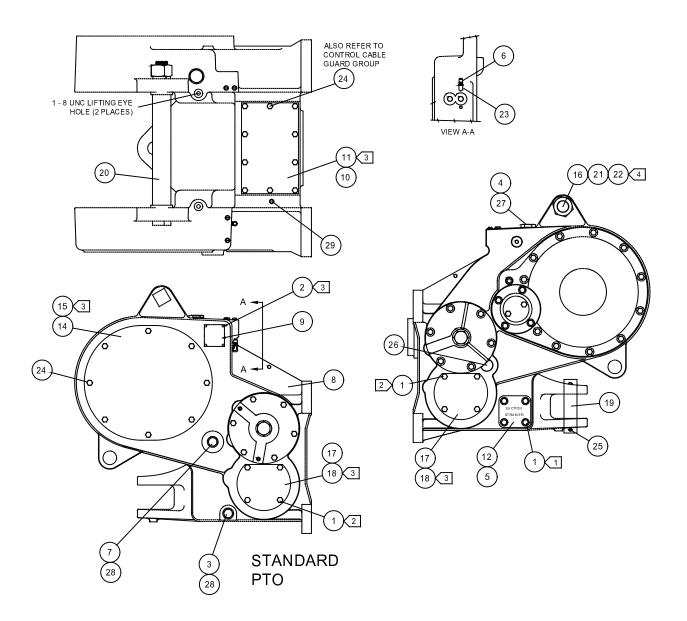
NOTES:

- Clean bevel and pump pinions with Loctite solvent. Verify press fit before assembly. Apply Loctite 609 or equal to surfaces indicated in Detail A. Press pump drive pinion, item 2, onto bevel pinion and seat securely against shoulder. Allow proper cure time for Loctite before usage.
- 2. Apply a thin coat of multi-purpose grease to rollers. Do not pack solid.
- Tighten nut to ensure parts are fully seated. Loosen nut to set the rolling torque of 10 lb-in (1.1 N-m). Pinion must turn smoothly by hand.
- 4. Shim as required for tooth contact pattern as shown. The pattern height
- should be about 1/3 the whole depth, located midway between tip and root. It should be about $\frac{1}{2}$ the face width shifted toward the toe. Set the backlash to .004 to .012 in. (.10 .30 mm).
- Apply approximately 3/16" (5 mm) bead of silastic sealant (RTV 732) to pilot diameter as indicated.
- Clean with Loctite solvent and apply Loctite 242 to dowel pin and insert into winch case.
- Clean with Loctite solvent and apply Loctite 242 to threads. Torque to 75 to 83 ft-lb (102 - 113 N-m).

ITEM	PART NO.	DESCRIPTION	QTY
1	106864	BEVEL PINION CARRIER	1
2	69947	PUMP PINION	1
3	70080	BEARING CUP	2
4	70081	BEARING CONE	2
5	70163	RETAINING RING	1
6	107298	OIL SEAL	1
7	74992	O-RING	1
8	70382	SEAL SPACER	1
9	11418	BEARING LOCKWASHER	1
10	24816	BEARING LOCKNUT	1
11	10318	DOWEL PIN	1
12	69946	SHIM, GASKET	1
13	69945	SHIM, .005 in. (.13 mm)	2-AR
14	69827	SHIM, .007 in. (.18 mm)	2-AR
15	69826	SHIM, .020 in. (.51 mm)	2-AR
16	104174	CAPSCREW, HEX HEAD, (1/2 - 13 X 1-1/4 GD8 Z)	6
17	70354	BEVEL PINION - 18T STANDARD SPEED - 3 SHAFT	1
18	29072	BEVEL GEAR SET - 18/38T STD SPD (CODE D) - (NOT SHOWN)	1
19	70133	O-RING	1
20	70161	RETAINING RING	1
21	70357	BEVEL PINION PLUG	1

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WINCH CASE AND COVERS



NOTES:

- APPLY "FEL-PRO C648F" TO BOLTS TO PREVENT THREAD CORROSION.
- 2 TIGHTEN FASTENERS TO 75 LB•FT (10.4 Kg•M) TORQUE.
- APPLY "RTV 732" SILASTIC SEALANT TO BOTH SIDES OF GASKETS (11, 15 & 18) AND DRIVE SCREWS (2).
- TIGHTEN HEX NUT (22) UNTIL LOCKWASHER (21) IS FLATTENED AND THEN TURN ONE FLAT.

WINCH CASE AND COVERS

1 104320 CAPSCREW, HEX HEAD (1/2 - 13 X 1 GD8 Z) 12 2 70053 DRIVE SCREW 4 3 70118 PLUG 1 4 29825 PLUG 1 5 22586 O-RING 2 6 11106 VENT PLUG 1 7 70193 SIGHT GAUGE (INCLUDES ITEM 28) 1 8 27752 WINCH CASE - STANDARD PTO 1 10 27805 COVER, TOP ACCESS 1 11 27806 GASKET 1 12 70305 STRAINER COVER 1 14 69951 COVER, SIDE ACCESS 1 15 69950 GASKET 1 16 28772 TIE BOLT 1 17 27807 COVER, LOWER ACCESS 2 18 27808 GASKET 2 19 36618 DRAW BAR PIN 1 20 27804 SPACER TUBE 1 21 27666 LOCKWASHER (1-3/4) 1 22 27655 NUT, HEX HEAD (1-34 NC) 2 23 13708 ELBOW 1 24 27745 CAPSCREW, HEX HEAD (1/2 - 13 X 1) SS* <td< th=""><th>ITEM</th><th>PART NO.</th><th>DESCRIPTION</th><th>QTY</th></td<>	ITEM	PART NO.	DESCRIPTION	QTY
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6 11106 VENT PLUG 1 7 70193 SIGHT GAUGE (INCLUDES ITEM 28) 1 8 27752 WINCH CASE - STANDARD PTO 1 10 27805 COVER, TOP ACCESS 1 11 27806 GASKET 1 12 70305 STRAINER COVER 1 14 69951 COVER, SIDE ACCESS 1 15 69950 GASKET 1 16 28772 TIE BOLT 1 17 27807 COVER, LOWER ACCESS 2 18 27808 GASKET 2 19 36618 DRAW BAR PIN 1 20 27804 SPACER TUBE 1 21 27666 LOCKWASHER (1-3/4) 1 22 27655 NUT, HEX HEAD (1-34 NC) 2 23 13708 ELBOW 1 24 27745 CAPSCREW, HEX HEAD (1/2 - 13 X 1) SS* 15 25 70148 COTTER PIN (3/8 X 3 in.) 2 26 70191 EXPANSION PLUB - 3 SHAFT ONLY 1	4	29825	PLUG	1
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8 27752 WINCH CASE - STANDARD PTO 1 10 27805 COVER, TOP ACCESS 1 11 27806 GASKET 1 12 70305 STRAINER COVER 1 14 69951 COVER, SIDE ACCESS 1 15 69950 GASKET 1 16 28772 TIE BOLT 1 17 27807 COVER, LOWER ACCESS 2 18 27808 GASKET 2 19 36618 DRAW BAR PIN 1 20 27804 SPACER TUBE 1 21 27666 LOCKWASHER (1-3/4) 1 22 27655 NUT, HEX HEAD (1-34 NC) 2 23 13708 ELBOW 1 24 27745 CAPSCREW, HEX HEAD (1/2 - 13 X 1) SS* 15 25 70148 COTTER PIN (3/8 X 3 in.) 2 26 70191 EXPANSION PLUB - 3 SHAFT ONLY 1	6	11106	VENT PLUG	1
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19 36618 DRAW BAR PIN 1 20 27804 SPACER TUBE 1 21 27666 LOCKWASHER (1-3/4) 1 22 27655 NUT, HEX HEAD (1-34 NC) 2 23 13708 ELBOW 1 24 27745 CAPSCREW, HEX HEAD (1/2 - 13 X 1) SS* 15 25 70148 COTTER PIN (3/8 X 3 in.) 2 26 70191 EXPANSION PLUB - 3 SHAFT ONLY 1	17	27807	COVER, LOWER ACCESS	2
20 27804 SPACER TUBE 1 21 27666 LOCKWASHER (1-3/4) 1 22 27655 NUT, HEX HEAD (1-34 NC) 2 23 13708 ELBOW 1 24 27745 CAPSCREW, HEX HEAD (1/2 - 13 X 1) SS* 15 25 70148 COTTER PIN (3/8 X 3 in.) 2 26 70191 EXPANSION PLUB - 3 SHAFT ONLY 1	18	27808	GASKET	2
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23 13708 ELBOW 1 24 27745 CAPSCREW, HEX HEAD (1/2 - 13 X 1) SS* 15 25 70148 COTTER PIN (3/8 X 3 in.) 2 26 70191 EXPANSION PLUB - 3 SHAFT ONLY 1	21	27666	LOCKWASHER (1-3/4)	1
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25 70148 COTTER PIN (3/8 X 3 in.) 2 26 70191 EXPANSION PLUB - 3 SHAFT ONLY 1	23	13708	ELBOW	1
26 70191 EXPANSION PLUB - 3 SHAFT ONLY 1	24	27745	CAPSCREW, HEX HEAD (1/2 - 13 X 1) SS*	15
	25	70148	COTTER PIN (3/8 X 3 in.)	2
27 31608 O-RING - FOR OIL FILL PLUG	26	70191	EXPANSION PLUB - 3 SHAFT ONLY	1
27 01000 014110 1014 0121 1221 200	27	31608	O-RING - FOR OIL FILL PLUG	1
28 31607 O-RING - FOR OIL DRAIN & LEVEL PLUG/SIGHT GAUGE 2	28	31607	O-RING - FOR OIL DRAIN & LEVEL PLUG/SIGHT GAUGE	2
29 23377 PLUG (3/8 NPT SQ HD) 1	29	23377	PLUG (3/8 NPT SQ HD)	1

*SS - SELF SEALING MATERIAL PREAPPLIED TO THREADS