

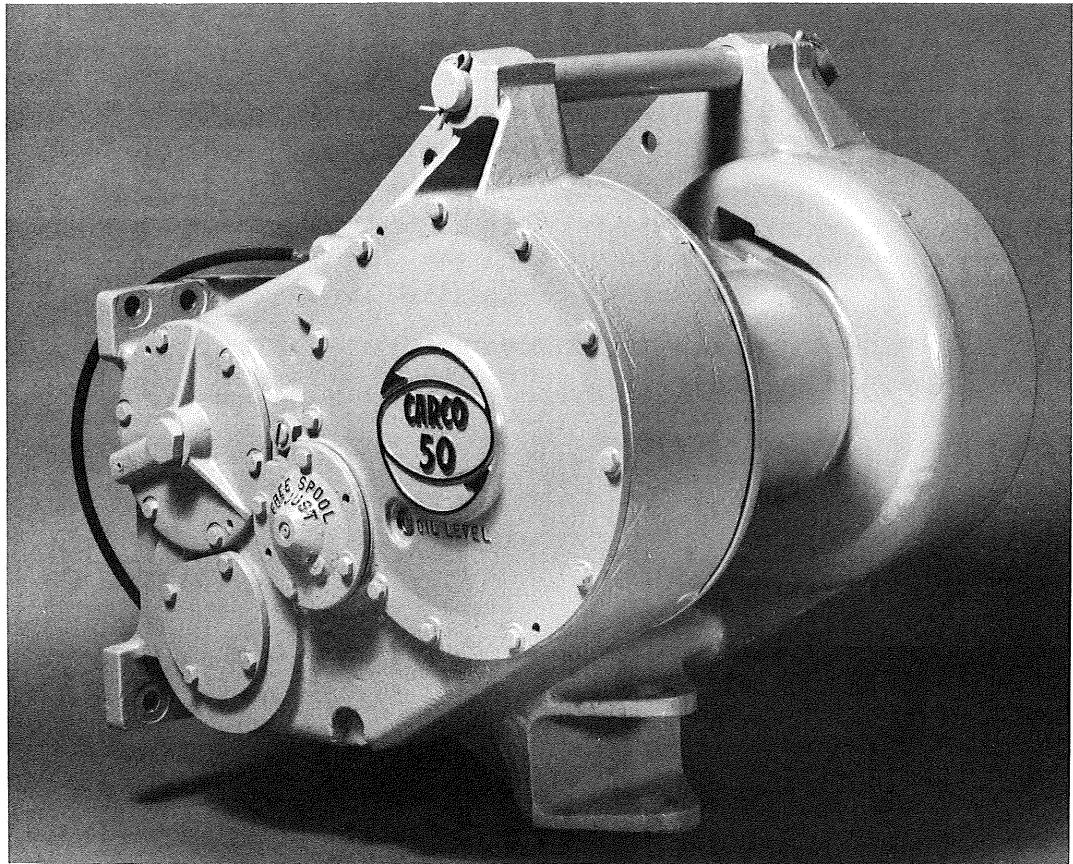
CARCO

PARTS MANUAL

CARCO MODEL 50-PS AND PSC WINCH

FOR

FIAT ALLIS 10C TRACTOR



CARCO® WINCH PRODUCTS

A DIVISION OF PACOR / 1400 NORTH 4TH STREET, RENTON, WA 98055 U.S.A. (206) 251-7834/TELEX: 32-8942

Winch Specifications

CABLE DRUM DATA:

Barrel Diameter..... 10" (254mm)
Flange..... 19-7/8" (504mm)
Barrel Length 10" (254mm)

CABLE CAPACITIES: (Wire Rope)

1/2" (13mm)..... 682' (208m)
5/8" (16mm)..... 448' (136m)
3/4" (19mm)..... 316' (96m)

Weight..... Approx. 1900-2300 lb.

CABLE FERRULE SIZE:

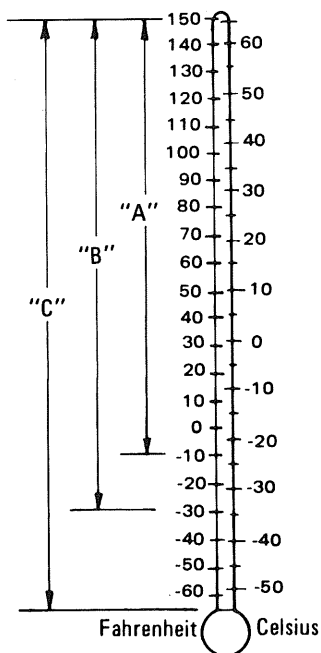
25456-1 (B4) for 1/2" Wire Rope
25456-2 (B5) for 5/8" Wire Rope
25456-3 (B6) for 3/4" Wire Rope

OIL CAPACITY

Model 50 (Std PTO) – 73 Qts (69.0 Liters)
Model 50 (Low PTO) – 59 Qts (55.8 Liters)

TEMPERATURE RANGES & RECOMMENDED LUBRICANTS

Prevailing Ambient Temperatures



"A" MIL-L-2104C Grade 10

"B" Dexron® II
Type "A" Suffix "A"
HTF Type "C-3"

"C" Contact local oil supplier for proper oil.

Note: DEXRON® is a registered trademark
of General Motors

Note: Park tractor unit in level condition before checking oil level.

Change oil and clean suction filter after each 1,000 hours or six months of operation, whichever occurs first.

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CARCO MODEL 50-PS AND PSC WINCH

FOR

FIAT ALLIS 10C TRACTOR

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Note: Purchased parts, such as bearings and oil seals may be substituted with parts of equal quality on the manufacturer's recommendation, and with the approval of Carco.

ATTENTION: Be sure to give correct part number, part name and complete serial number of winch when ordering. Also name and model of the tractor on which the winch is mounted.

WINCH MODEL IDENTIFICATION

The Model 50 Power Shift winch is manufactured as a Standard PTO or Low PTO, depending on tractor application.

In the Standard PTO, the bevel gear group, clutch and brake components are located in the upper bores of the winch case. See Figures 1 and 2.

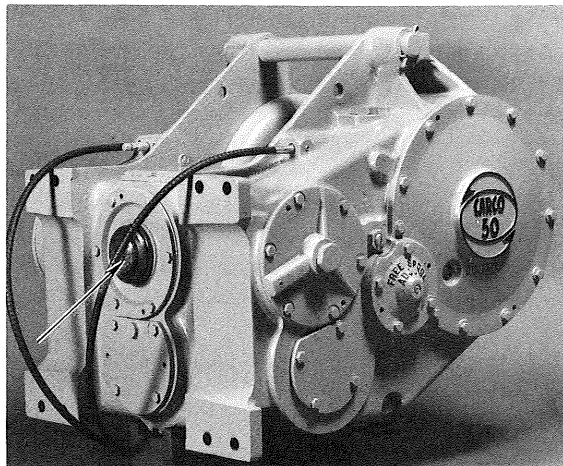


FIGURE 1

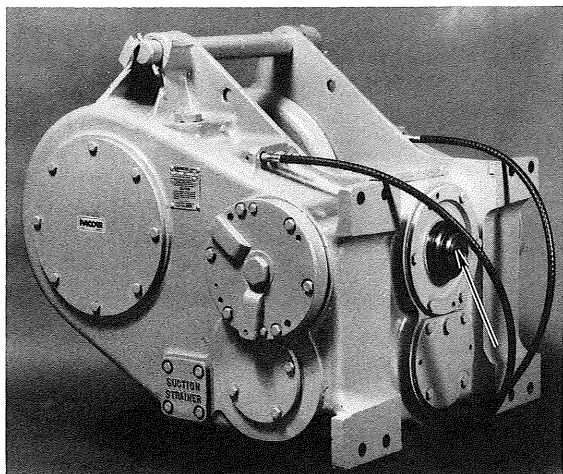


FIGURE 2

The Model 50 Low PTO winch has the bevel gear group, clutch and brake components located in the lower bores of the winch case. See Figures 3 and 4.

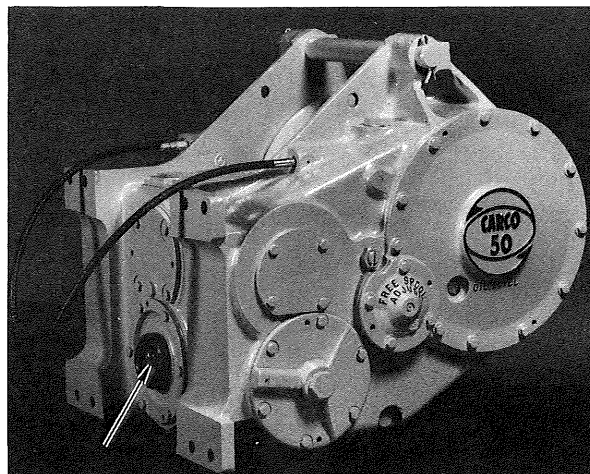


FIGURE 3

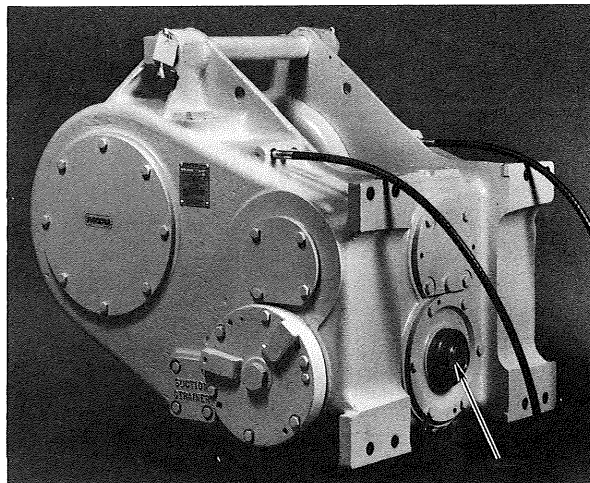


FIGURE 4

The winch identification plate is located on the right-hand side of the winch case. See Figures 5 and 6.

The winch serial number is also stamped into the upper right-hand corner of the mounting pad. See Figure 5.

CARCO MODEL 50-PS & PSC WINCH
WINCH IDENTIFICATION
FIAT ALLIS 10C TRACTOR

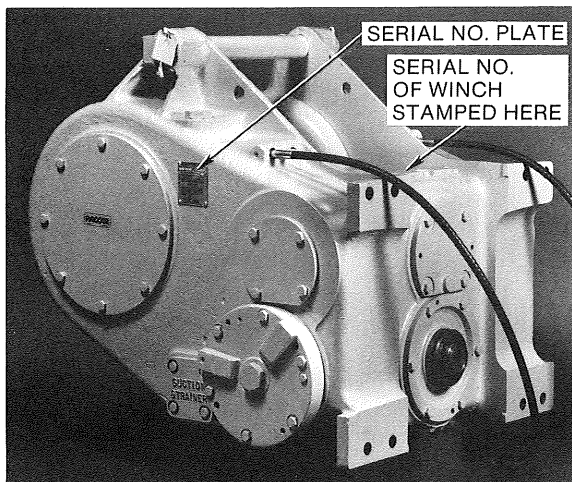


FIGURE 5

CARCO	WINCH
MODEL	SERIAL
50 PS C0000	5-XXX
FILL TO PROPER LEVEL APPROX XX QTS	
USE ATF DEXRON® HTF TYPE C-2 OR EO MIL-L-2104C. GRADE 10	
CLEAN SUCTION FILTER AND REFILL AT TRACTOR TRANS. SERVICE INTERVALS	
CAUTION	
WINCH HYDRAULIC SYSTEM CONTAINS ACCUMULATORS. HIGH PRESSURE OIL MUST BE BLED OFF BEFORE SERVICING HYDRAULIC SYSTEM. CONSULT SER- VICE MANUAL.	
CARCO WINCH PRODUCTS	
A DIVISION OF PACOR / RENTON WASHINGTON, U.S.A.	

FIGURE 6

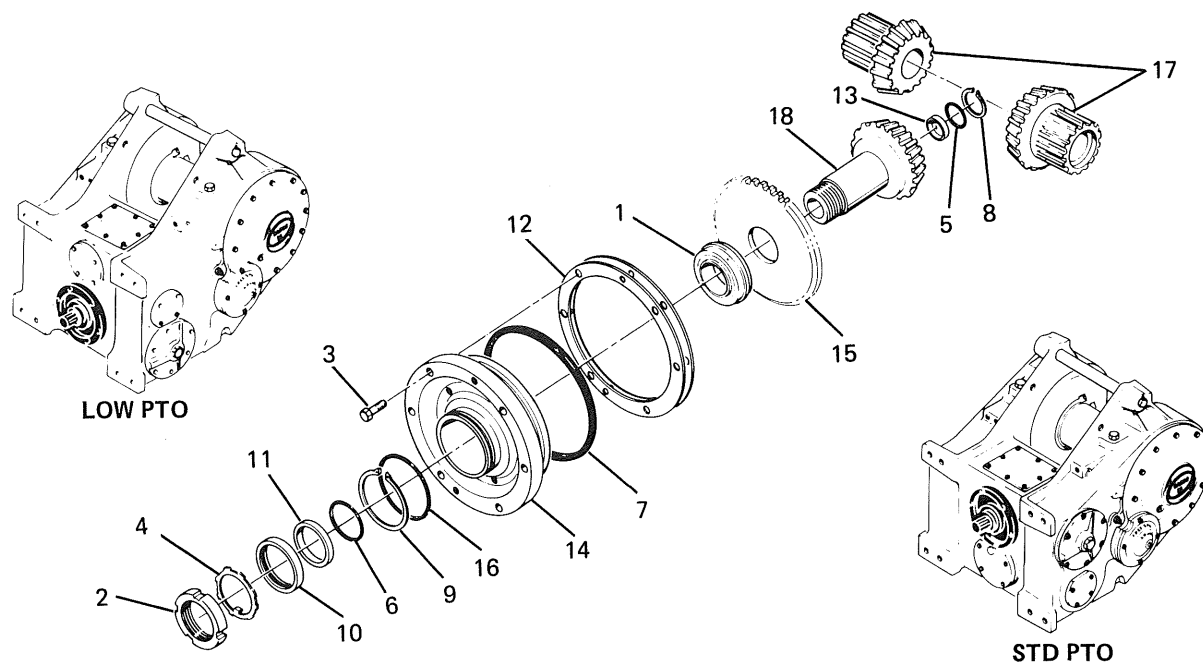
The winch model number is an important reference. By decoding the last five digits as shown, specific information is revealed as to what optional components were used when the unit was manufactured. The winch serial number and information tag has the model

and configuration details stamped in the "model" space. Example:

MODEL			
50 PS	C	0	000
MODEL 50 POWER SHIFT			
BEVEL GEAR RATIO A OR K = 1:1 B OR L = 1.27:1 ▶ C OR M = 1.64:1 D OR N = 2.1:1 E OR P = 2.78:1			
CABLE DRUM ROTATION ▶ 0 = STD SPEED OVERWIND 1 = LOW SPEED OVERWIND			
CLUTCH SHAFT GROUP ▶ 000 = STD SPEED 100 = LOW SPEED			

IMPORTANT: When repair items are needed, please include unit serial number with parts order.

CARCO MODEL 50-PS & PSC WINCH
BEVEL GEAR GROUP
FIAT ALLIS 10C TRACTOR



BEVEL GEAR SET 53120-0104 STD OR 53120-0105 SLOW SPEED

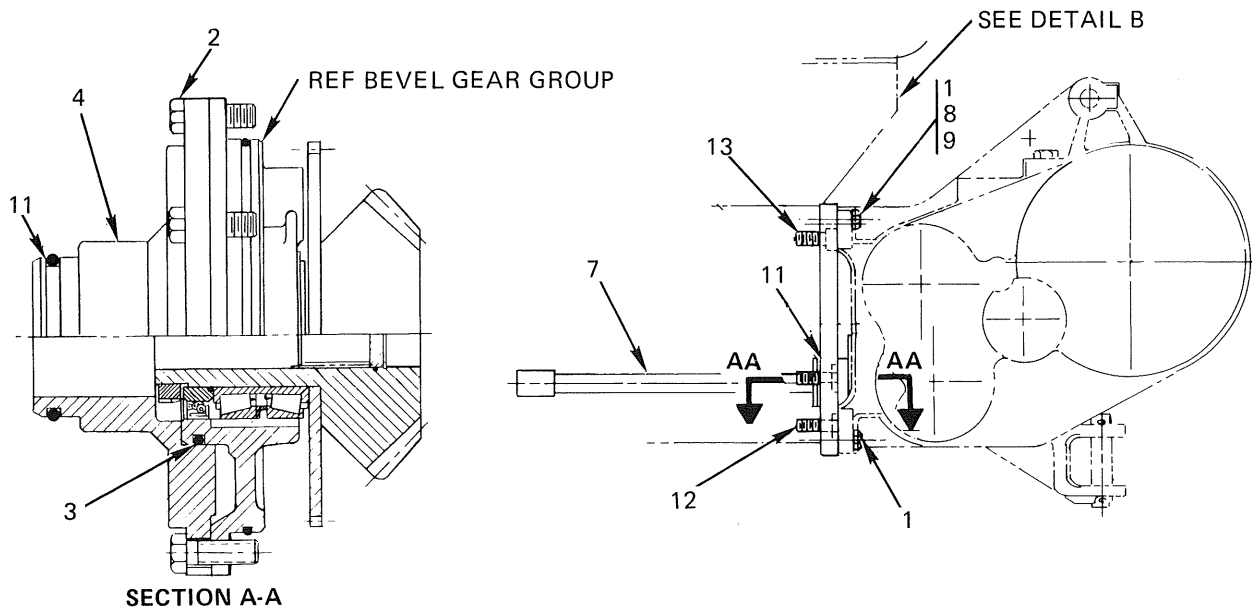
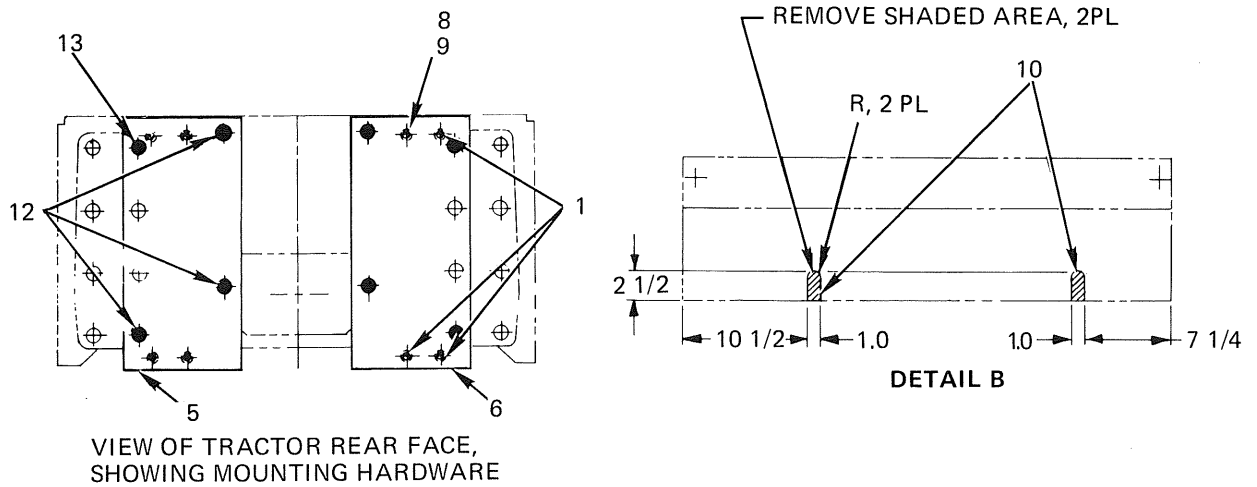
REF.	CARCO PART NO.	NAME AND DESCRIPTION	QUAN. PER UNIT
1	15312	Bearing Assembly	1
2	16041-11	Nut, Bearing Lock (AFBMA N-11, TN-11)	1
3	16047-808	Screw, Hex Hd. Cap (1/2 x 1 UNC)	6
4	16068-11	Washer, Bearing Lock (AFBMA W-11)	1
5	16262-126	O-Ring (NAT'L. 610076)	1
6	16262-139	O-Ring (NAT'L. 610092)	1
7	16262-266	O-Ring (NAT'L. 623044)	1
8	16314-137	Ring, Retaining (TRUARC N5000-137)	1
9	16314-354	Ring, Retaining (TRUARC N5000-354)	1
10	16342-27	Seal, Oil (NAT'L. 415322)	1
11	53047-0001	Spacer, Seal	1
12	53048-0001	Shim Set	1
13	53063-0011	Plug	1
14	53097-0001	Carrier	1
15	53114	Pinion, Pump	1
16	16262-346	O-Ring (NAT'L. 622749)	1
17	{ 53049-0004	Gear, Bevel (Standard Speed)	2
	{ 53049-0005	Gear, Bevel (Slow Speed)	2
18	{ 53050-0014	Pinion, Bevel (Standard Speed)	1
	{ 53050-0015	Pinion, Bevel (Slow Speed)	1

BEVEL GEAR SET LISTINGS

NOTE: The Bevel Gear Set above is standard for the adaption indicated. Below are gear combinations to provide a range of line speeds and pulls for various winching requirements. Important – Prior to ordering or quoting on any optional Bevel Gear Set be sure to check with factory on availability, and if the gear set would be recommended for the application.

GEAR SET NO.	BEVEL GEAR		BEVEL PINION		RATIO
	Part No.	Teeth	Part No.	Teeth	
53120-0101	53049-0001	30	53050-0011	30	1/1
53120-0102	53049-0002	33	53050-0012	26	1.27/1
53120-0103	53049-0003	36	53050-0013	22	1.64/1
53120-0104	53049-0004	38	53050-0014	18	2.11/1
53120-0105	53049-0005	39	53050-0015	14	2.76/1

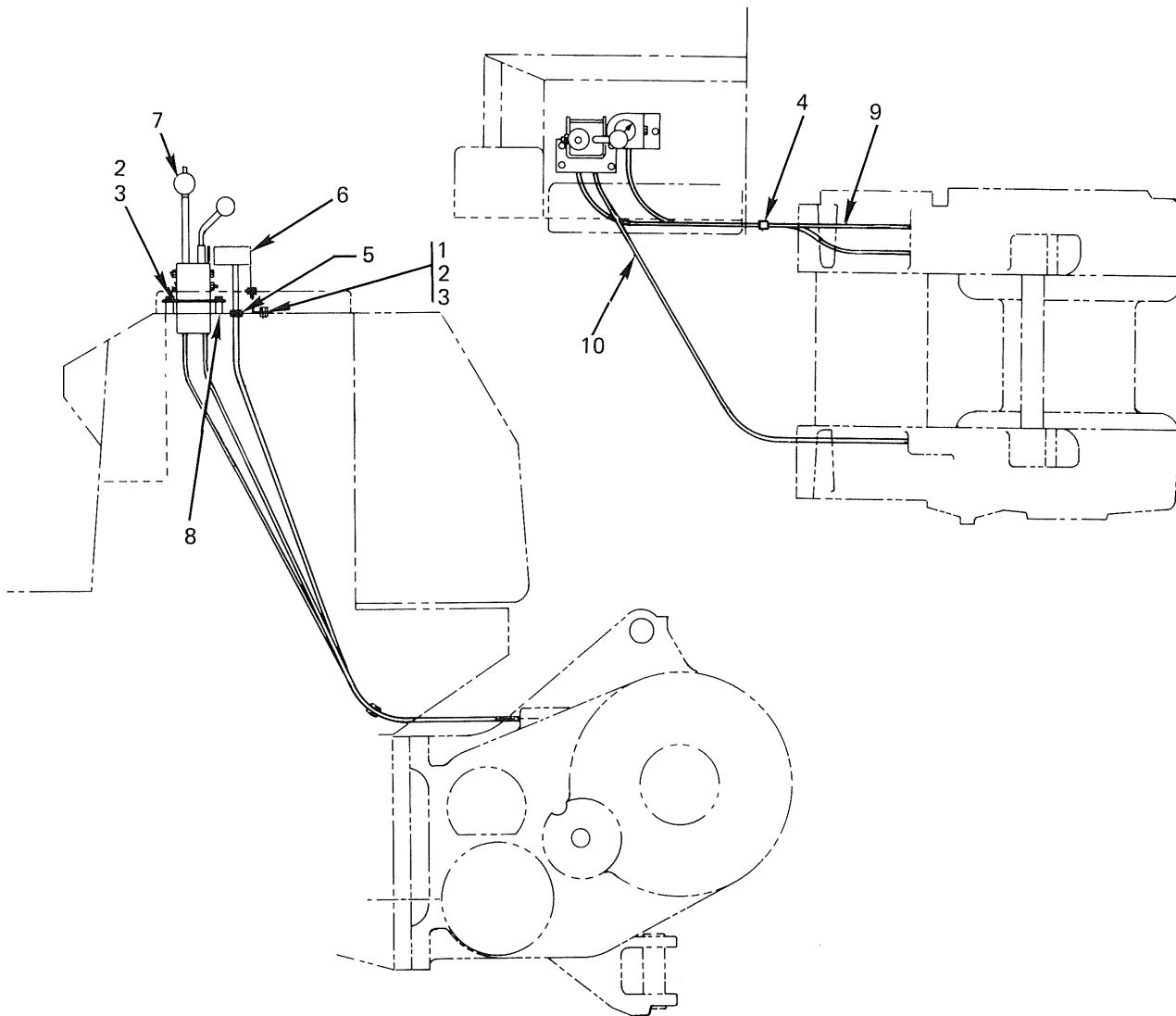
CARCO MODEL 50-PS & PSC WINCH
MOUNTING GROUP
FIAT ALLIS 10C TRACTOR



MOUNTING GROUP – 53174-53175
FA 10C

REF.	CARCO PART NO.	NAME AND DESCRIPTION	QUAN. PER UNIT
1	16027-1420	Screw, Hex Hd Cap (7/8 x 2-1/2 UNC)	6
2	16047-812	Screw, Hex Hd Cap (1/2 x 1-1/2 UNC)	6
3	16262-346	O-Ring (NAT'L 622749)	1
4	53082	Pilot, PTO	1
5	53085-0001	Spacer Block, LH	1
6	53085-0002	Spacer Block, RH	1
7	53165-0002	Shaft, PTO	1
8	16400-14	Nut, Hex (7/8 UNC)	2
9	51495-1428	Stud (7/8 x 3-1/2 UNC)	2
10	45418-12	Trim	1
11	16262-337	O-Ring (NAT'L 622740)	1
12	16425-1	Screw, Metric, Hex Hd Cap (M24 x 2MM x 50MM)	6
13	16537-0001	Screw, Metric, Soc Hd Cap (M24 x 2MM x 45MM)	2

CARCO MODEL 50-PS & PSC WINCH
CONTROL GROUP
FIAT ALLIS 10C TRACTOR



CONTROL GROUP – 53547
FA 10C

REF.	CARCO PART NO.	NAME AND DESCRIPTION	QUAN. PER UNIT
1	16033-6	Nut, Hex (3/8 UNC)	1
2	16047-608	Screw, Hex Hd Cap (3/8 x 1 UNC)	5
3	16067-6	Washer, Lock (3/8)	5
4	16459-1	Strap, Retaining (ADEL 668-4-8-DR)	1
5	16528-0001	Grommet (BOYD 930-4)	1
6	48944-120	* Gauge Kit, Pressure	1
7	49805-8	** Control Stand, Shift	1
8	53319-1	Pad	2
9	52000-072	Cable, Control – Shift	1
10	52000-084	Cable, Control – Freespool	1

*See Page 9 for components.

**See Pages 10,11 for components.