

CATERPILLAR 561M

1KW / SEBP2745

Contents

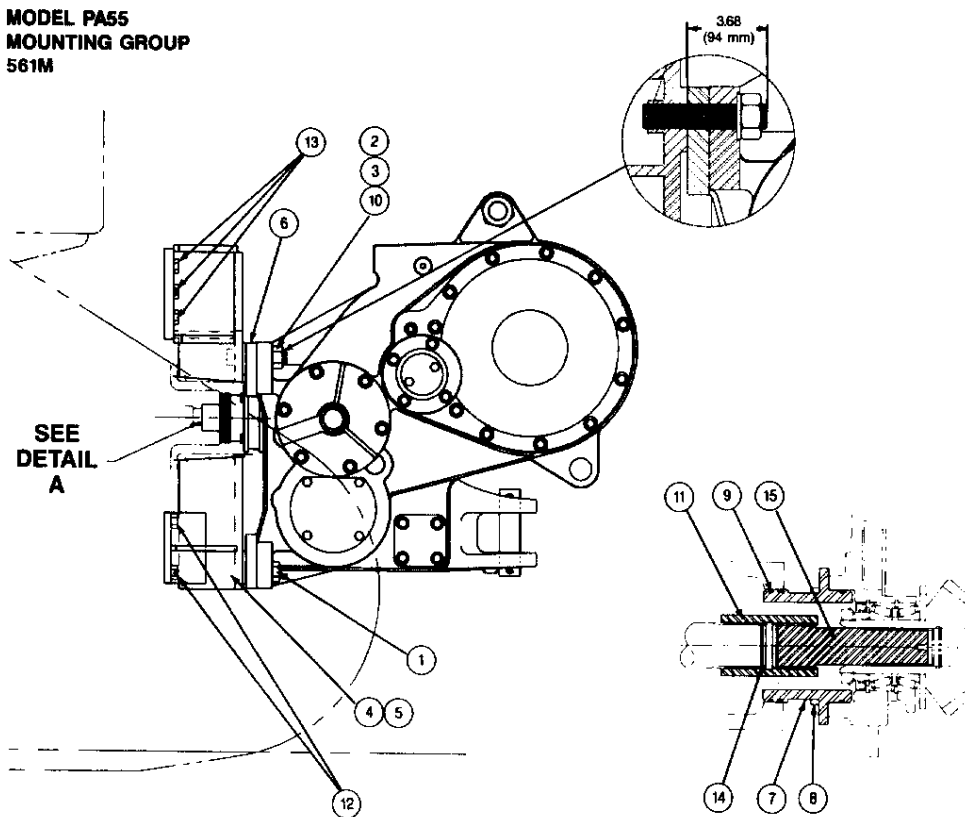
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MOUNTING GP

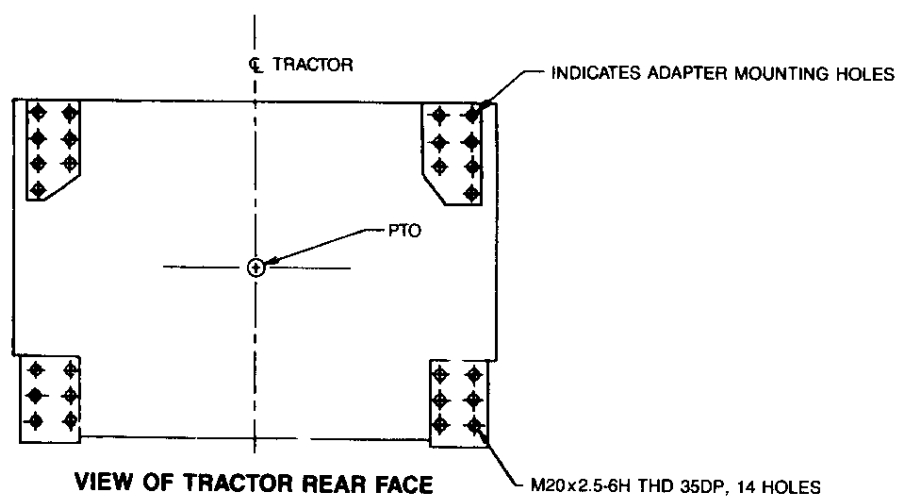
Mounting GP

Drawing 1 of 2

**MODEL PA55
MOUNTING GROUP
561M**



SECTION A-A



VIEW OF TRACTOR REAR FACE

MOUNTING GP (continued)

Drawing 2 of 2

INSTRUCTIONS

1. Apply Loctite 271 to threads of studs, item 3, and install into winch adapter brackets, items 4 and 5, to a height of 3.68 in. (94 mm).

Remove and discard the angle bracket, used for securing the winch to the shipping skid, from the lower winch/adapter mounting bolts.

2. PTO rotation is counterclockwise (CCW) as viewed from rear of tractor.

Remove and discard tractor PTO cover.

3. Remove paint, rust, dirt and grease from mounting surfaces of tractor, winch and winch adapters.

4. Coat splines of PTO shaft, Item 15, with multi-purpose grease and install into bevel pinion gear of winch.

5. Install retaining rings, Item 14, in coupling, Item 11. Place coupling over PTO shaft with beveled end away from winch.

6. Install o-rings, Item 9, onto PTO pilot Item 7. Note: As the same PTO pilot may be used on several adaptations, usually only one o-ring groove will engage and seal in the tractor PTO opening.

7. Remove winch top cover to gain access to the bevel gears.

8. Coat PTO pilot o-rings and splines of tractor PTO with multi-purpose grease and install winch on tractor while moving winch bevel gears to align the splines.

9. Apply Loc-tite 242 to threads of studs, Item 3 and capscrews, Items 1, 12 & 13 and tighten as follows:

A) Method 1 – Tighten nuts to 960 lb•ft (1300 N•m).

Method 2 – Nuts to be snugged up to approximately 100 lb•ft (136 N•m) then mark position of nut and tighten an additional 2½ flats.

B) Capscrews, Item 1, to be tightened to 680 lb•ft (900 N•m) torque.

C) Capscrews, Items 12 & 13 to be tightened to 340 lb•ft (460 N•m).

WARNING

Winch and adapters weigh approximately 2,500 lb (1,135 kg). Make certain that lifting equipment has adequate capacity. Failure to use adequate lifting equipment may result in property damage, personal injury or death.

CAUTION

Fill winch to proper level with recommended oil BEFORE starting tractor. Winch bearing and gear damage may result if tractor is run without oil in winch.

Ref.	Part number	Description	Qty	Code	Group page
1	7X-0408	CAPSCREW, HEX HEAD (1 - 8 X 3 1/2 G8)	4		
2	7X-0450	NUT (1 1/8 - 7)	4		
3	133-9225	STUD (1 1/8 - 7 X 5 3/4 G8)	4		
4	123-4428	ADAPTER - RH	1		
5	123-4429	ADAPTER - LH	1		
6	118-6553	SPACER	4		
7	118-6537	PILOT, PTO	1		
8	123-4407	CAPSCREW, HEX HEAD (1/2 - 13 X 1 G5)	4		
9	8S-5654	O-RING	3		
10	119-1551	WASHER (1 1/8 HARDENED)	4		
11	118-6539	COUPLING	1		
12	7X-2562	CAPSCREW, HEX HEAD (HM20 - 2.5 x 45 mm G8)	4		

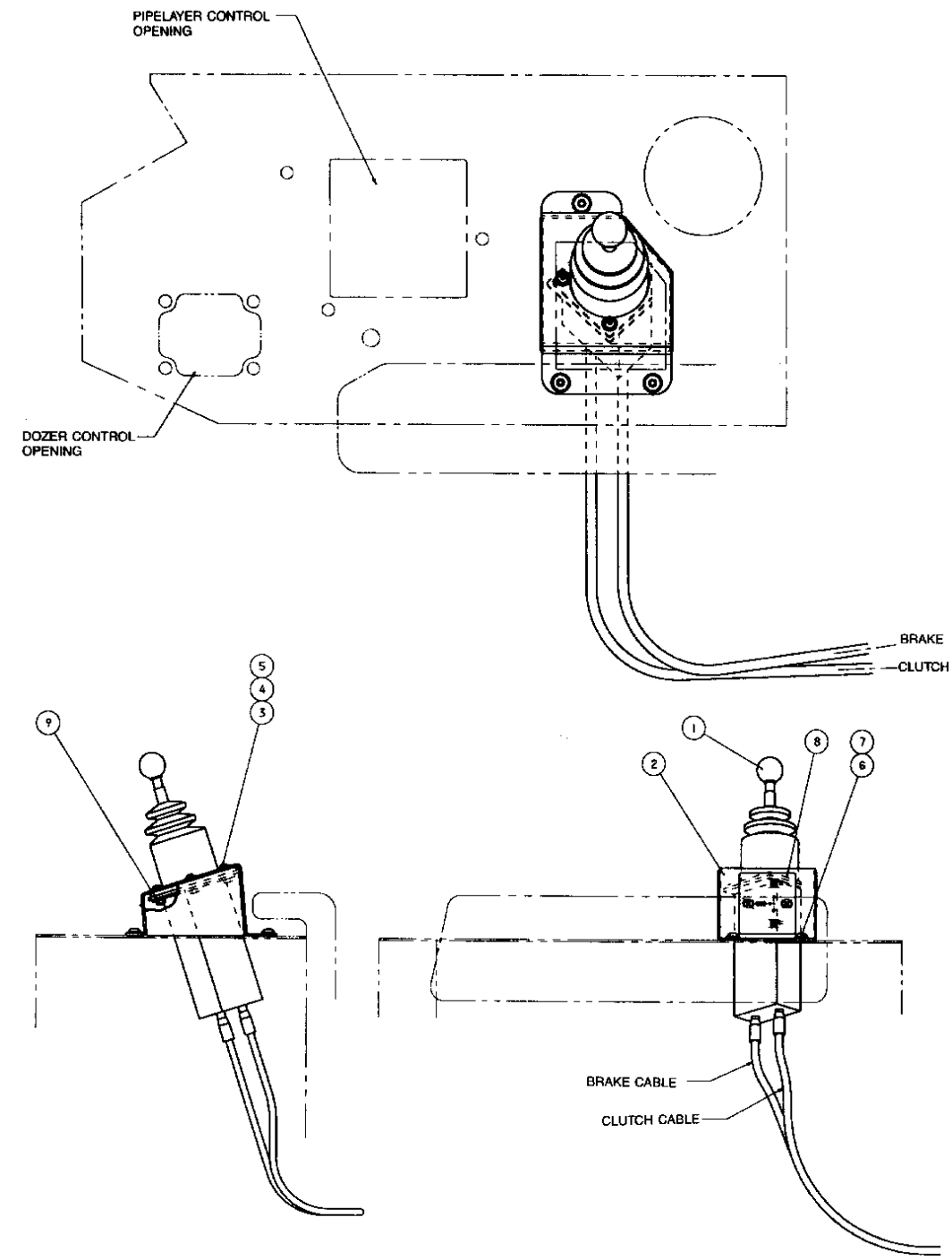
MOUNTING GP (continued)

Ref.	Part number	Description	Qty	Code	Group page
13	6V-3531	CAPSCREW, HEX HEAD (HM20 - 2.5 x 50 mm, G8)	10		
14	120-7671	RETAINING RING	2		
15	118-6559	PTO SHAFT	1		

CONTROL GP

Control GP

Drawing 1 of 3



CONTROL GP (continued)

Drawing 2 of 3

CONTROL INSTALLATION INSTRUCTION

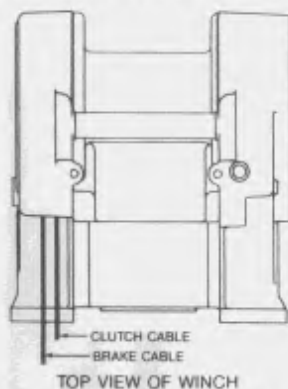
Note: These instructions are provided as a general guide. Tractor options, application requirements or local regulations may require deviation from these recommendations.

1. Carefully route the control cables from the winch to the underside of the right hand console. Pass the control cables up through the control bracket opening in the console.

CAUTION

Avoid routing cables near moving shafts or linkage which may cause damage to cables or restrict free movement of tractor components.

2. From the powershift control lever assembly, item 1, remove the six through-bolts, item 14, from the control stand and separate the two cable support housings, items 17 & 18. From each plunger, remove the sliding lock screw and threaded bushing, items 15 & 16.
3. Install the sliding lock screw, item 15, onto the control cables. Apply two drops of Loctite 242 to the cable threads and install the threaded bushing, item 16, onto the cable core until the end of the cable core is level with the end of the bushing.
4. Hold the controller in your left hand with the knob end up and the mounting bolts located at 6, 9 and 12 o'clock positions. Mark the plunger closest to the 6 o'clock position as the "clutch" control. Mark the plunger closest to the 12 o'clock position as the "brake" control. The "clipped" corner of the control will be installed toward the rear of the tractor.

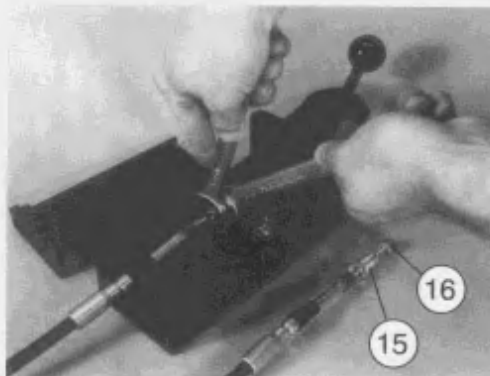


5. Move the control lever to extend the plungers far enough to expose the wrench flats. Moving the control lever forward into the Brake-Off detent spring

clip will extend only the brake plunger. Install the brake cable to the "brake" control plunger and the clutch cable into the "clutch" control plunger. With a wrench, hold the plunger as you tighten the sliding lock screw to 50 lb·ft (68 N·m) torque.

CAUTION

Tightening the sliding lock screw without holding the plunger with a wrench will result in damage to the control assembly.



6. Install the cable support housings, items 17 & 18, onto the controller. Place the groove of the control cable housings into the saddle of the cable anchors, items 19 & 20. Install the six through-bolts, washers, lockwashers and nuts, items 11, 13, 14 & 21. Evenly tighten the bolts to 85 lb·in. (10 N·m) torque.
7. Insert the controller/cables sub-assembly from the bottom into the opening of the control bracket, item 2, and secure with three button, socket-head cap-screws, washers and nuts, items 3, 4 & 5. Install the control bracket sub-assembly onto the console using three button, socket-head cap-screws, and washers, items 6 and 7.

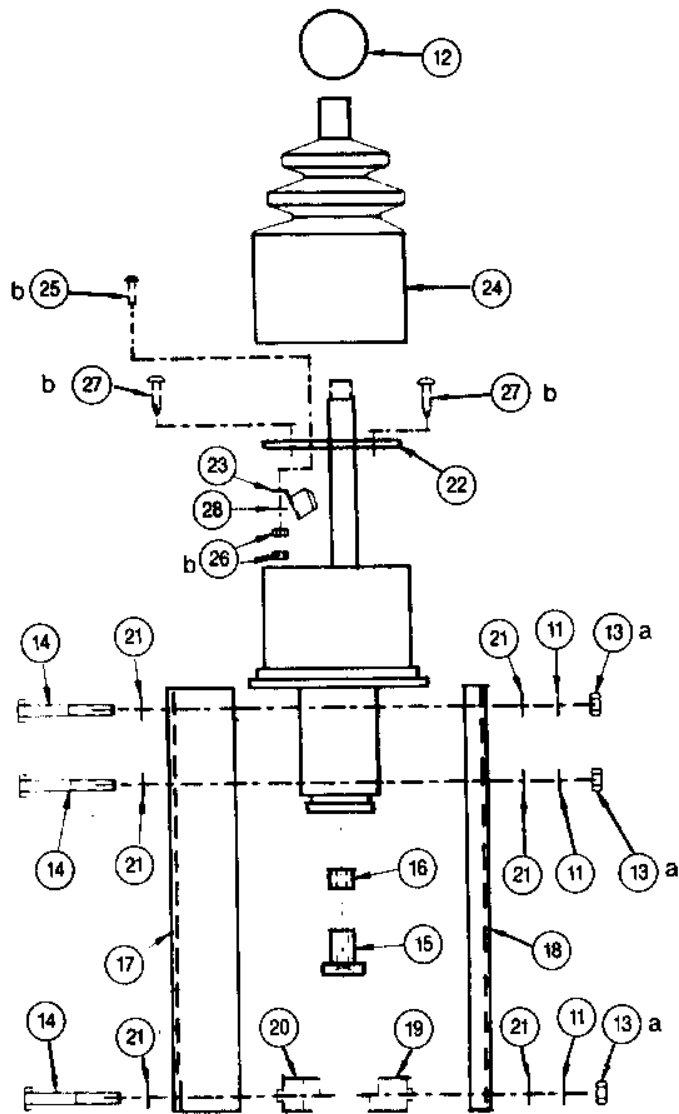
General Instructions

1. Install the control instruction self-adhesive decal, item 8, onto the control bracket, facing the operator.
2. Fill the winch to the proper level with recommended oil. Refer to the oil specifications found in the Operation and Preventive Maintenance Manual, publication SEBU 6884 (Paccar Winch PC-209).
3. Verify proper control cable and operating pressure adjustment by following the procedures found in the Operation and Preventive Maintenance Manual, publication SEBU 6884 (Paccar Winch PC-209) or the service manual, publication SENR 5358 (Paccar Winch PC-210).

CONTROL GP (continued)

Drawing 3 of 3

POWERSHIFT CONTROL, DUAL AXIS



TIGHTENING TORQUE: a) 85 lb•in. (10 N•m)
b) 20 lb•in. (2.5 N•m)

Ref.	Part number	Description	Qty	Code	Group page
1	123-4432	CONTROL, POWERSHIFT, DUAL-AXIS	1		
2	147-2724	CONTROL BRACKET	1		
3	137-4398	CAPSCREW, BUTTON HEAD (M6-1.0 x 25 mm)	3		
4	5C-2890	NUT, HEX (M6-1.0)	3		
5	8T-4205	WASHER, FLAT-THIN (1/4)	3		
6	137-4402	CAPSCREW, BUTTON HEAD (M10-1.5 x 25 mm)	3		

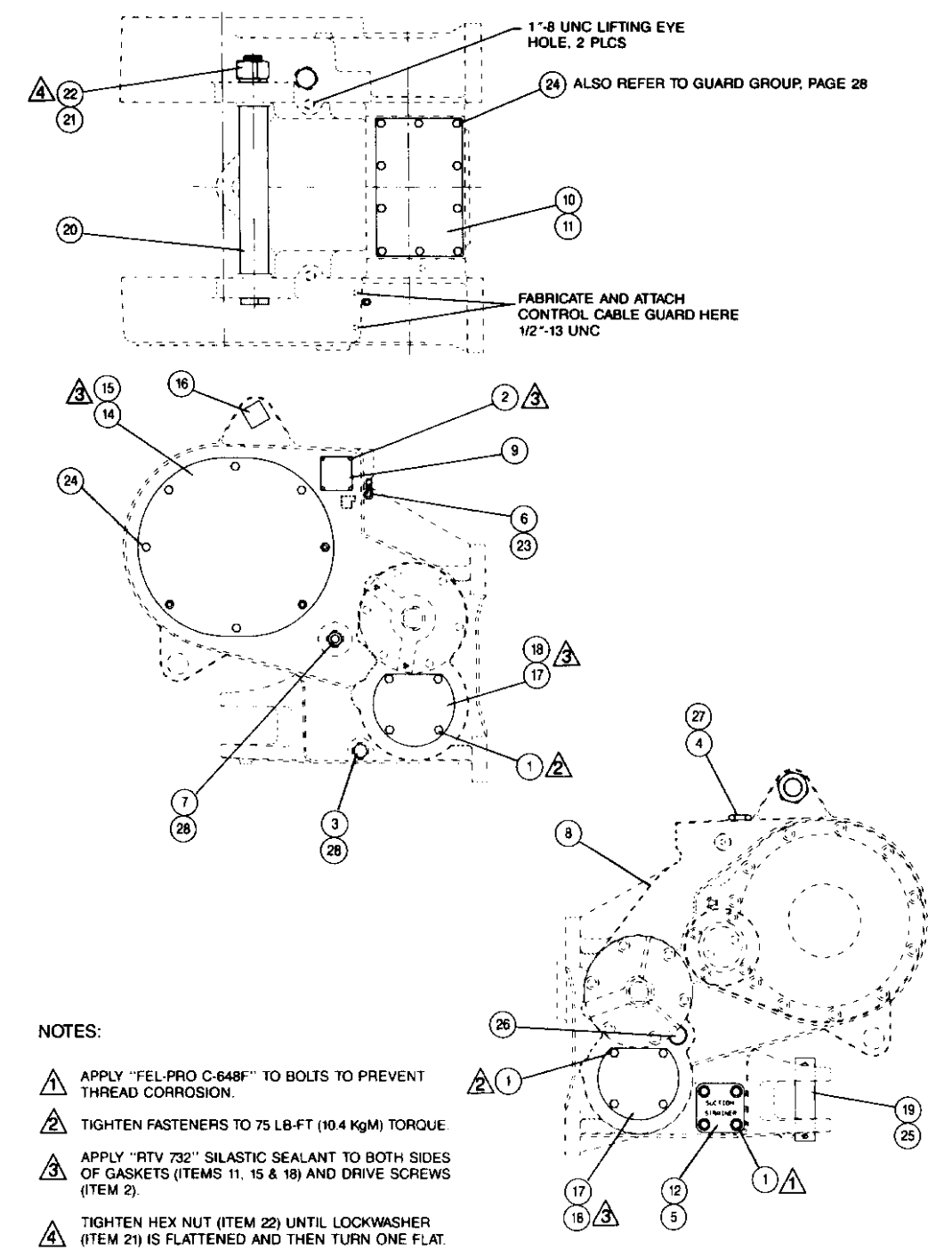
CONTROL GP (continued)

Ref.	Part number	Description	Qty	Code	Group page
7	8T-4895	WASHER, FLAT-NARROW (3/8)	3		
8	123-4439	DECAL, POWERSHIFT CONTROL	1		
9	147-2725	CLAMP PLATE	1		
10	123-4424	CONTROL CABLE - 90 in. (2286 mm)	2		
11	1H-3338	LOCKWASHER, EXTERNAL TOOTH (1/4)	6		
12	7R-5874	KNOB	1		
13	6V-8185	NUT (1/4-20)	6		
14	8T-9367	CAPSCREW, HEX HEAD (1/4-20 X 2 G5)	6		
15	126-2821	SLIDING LOCKSCREW	2		
16	126-2822	CABLE BUSHING	2		
17	126-2823	CABLE SUPPORT HOUSING, OUTER	1		
18	126-2824	CABLE SUPPORT HOUSING, INNER	1		
19	126-2818	CABLE ANCHOR, OUTER	1		
20	126-2820	CABLE ANCHOR, INNER	1		
21	8T-4205	WASHER, FLAT-THIN (1/4)	12		
22	187-1876	RESTRICTOR PLATE	1		
23	126-2805	DETENT CLIP SPRING KIT (INCLUDES 23, 25, 26 & 28)	1		
24	126-2804	BOOT	1		
MACHINE SCREW (4-40 X 5/8)					
NUT (4-40)					
27	126-5994	SCREW, SELF TAPPING (10-9 X 3/4)	4		
LOCKWASHER, EXTERNAL TOOTH (4)					

WINCH CASE & COVERS

Winch Case & Covers

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	123-4407	CAPSCREW, HEX HEAD (1/2 - 13 NC X 1 G5)	12		
2	7H-4543	DRIVE SCREW	4		
3	5P-9436	PLUG, DRAIN (MAY BE SUBSTITUTED FOR ITEM 7)	1		
4	123-4441	PLUG, OIL FILL (INCLUDES ITEM 27)	1		
5	6L-9965	O-RING	1		

WINCH CASE & COVERS (continued)

Ref.	Part number	Description	Qty	Code	Group page
6	5F-5434	VENT PLUG	1		
7	118-5783	SIGHT GAUGE (INCLUDES ITEM 28)	1		
8	118-6973	WINCH CASE - STANDARD PTO - SHOWN	1		
9	123-4417	SERIAL NUMBER DATA PLATE	1		
10	118-6598	COVER, TOP ACCESS	1		
11	118-6316	GASKET	1		
12	120-7541	STRAINER COVER	1		
14	118-6588	COVER, SIDE ACCESS	1		
15	120-7543	GASKET	1		
16	118-6298	TIE BOLT	1		
17	118-6597	COVER, LOWER ACCESS	2		
18	118-6317	GASKET	2		
19	118-8382	DRAW BAR PIN	1		
20	118-6314	SPACER TUBE	1		
21	119-1623	LOCKWASHER, 1 3/4	1		
22	7F-0190	NUT, HEX HEAD (1 3/4 NC)	1		
23	3B-8822	ELBOW	2		
24	6K-7917	CAPSCREW, HEX HEAD (1/2 - 13 NC X 1 G5 SS)	11	N	
25	3B-5320	COTTER PIN (3/8 X 3 in.)	2		
26	119-2165	EXPANSION PLUG - 3 SHAFT WINCH ONLY	1		
27	6V-5065	O-RING - FOR OIL FILL PLUG	1		
28	3D-2824	O-RING - FOR OIL DRAIN & LEVEL PLUG (ITEMS 3 & 7)	2		

CAT codes: N.

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