

CATERPILLAR D6N

GB6 / SEBP7241

Contents

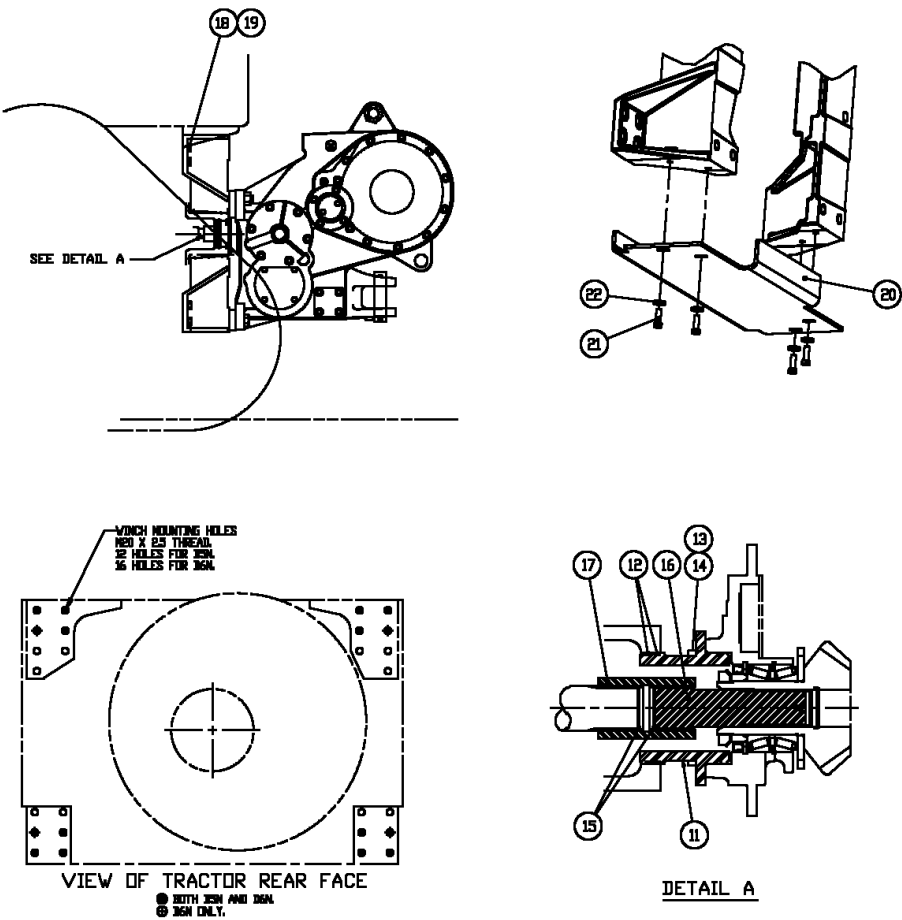
Section	Page
Power train	2

MOUNTING GROUP

MOUNTING GROUP

Drawing 1 of 1

MODEL PA55
MOUNTING GROUP
D5N & D6N



Ref.	Part number	Description	Qty	Code	Group page
1	244-1718	MOUNTING BRACKET (RH, FABRICATED)	1		
1	280-7204	MOUNTING BRACKET (RH, CAST)	1		
2	244-1719	MOUNTING BRACKET (LH, FABRICATED)	1		
2	280-7205	MOUNTING BRACKET (LH, CAST)	1		
3	224-1119	SPACER (1.00 IN THICK)	4		
6	133-9225	STUD (1-1/8-7 X 5.75 GD B7)	4		
7	7X-0450	NUT, HEX (1-1/8-7 GD 8 Z)	4		
8	7X-0531	WASHER-HARDENED (1-1/8)	4		
9	7X-0410	CAPSCREW-HEX HEAD (1-8 X 4 GD 8 Z)	4		
10	8T-5361	WASHER-HARDENED (1,Z)	4		
11	224-1118	PILOT, PTO	1		
12	8S-5654	O-RING	3		
13	5P-2228	CAPSCREW-HEX HEAD (1/2-13 UNC X 1.00 GD 8 Z)	4		
14	8T-4223	WASHER (1/2 NOM, HARD, Z)	4		
15	120-7671	RETAINING RING	2		

MOUNTING GROUP (continued)

Ref.	Part number	Description	Qty	Code	Group page
16	224-1144	SHAFT, PTO	1		
17	118-6539	COUPLING	1		
18	8T-6430	CAPSCREW-HEX HEAD (M20X2.5X50, GD 10.9 Z)	12-16		
19	8T-4123	WASHER (M20 NOM, HARD, Z)	12-16		
20	188-7404	GUARD	1		
21	5P-2566	CAPSCREW-HEX HEAD (1/2-13 NC X 1-1/2, GD 8 Z)	4		
22	5P-1076	WASHER (1/2, HARD, Z)	4		

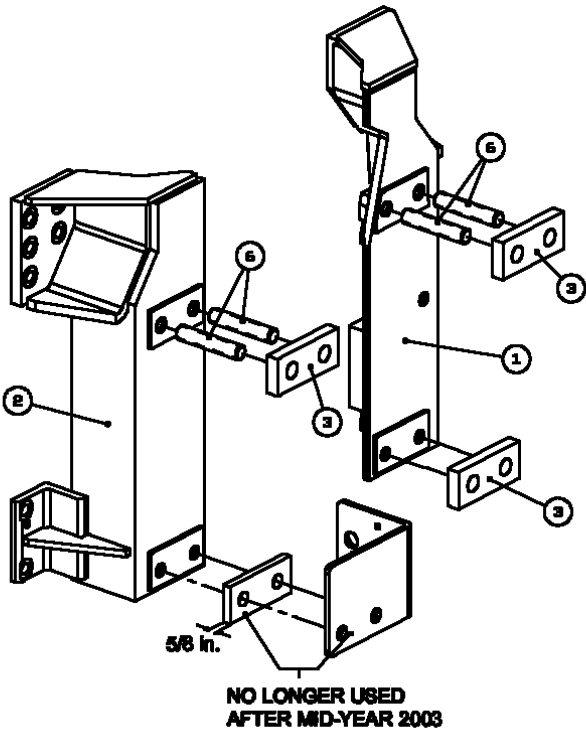
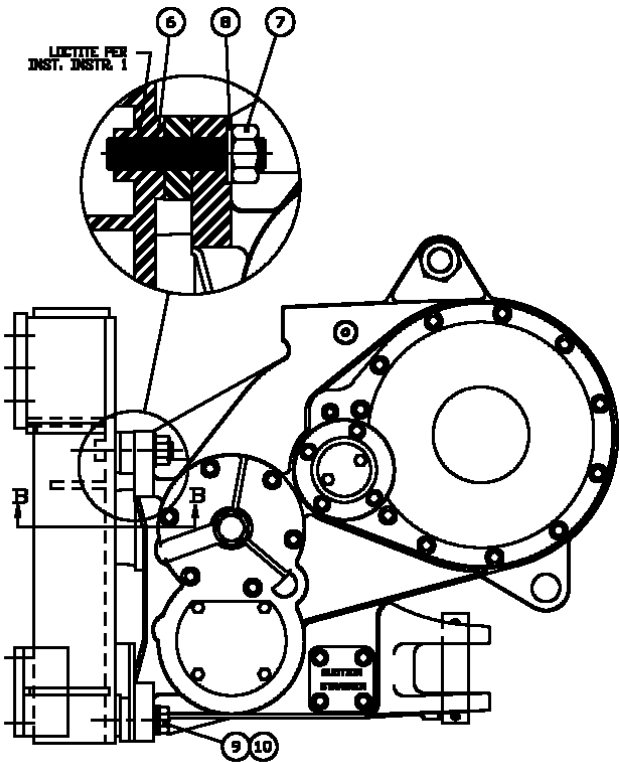
FABRICATED MOUNTING BRACKETS

FABRICATED MOUNTING BRACKETS

Drawing 1 of 2

Early Fabricated Mounting Brackets

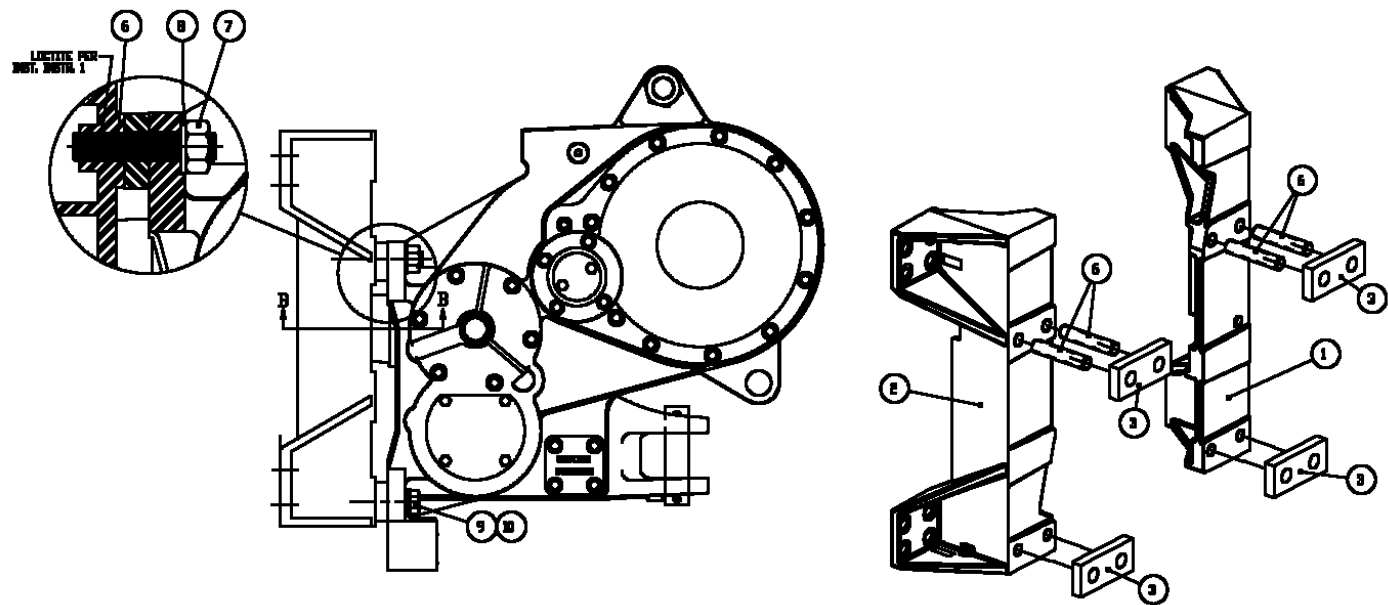
MODEL PA55
ADAPTER GROUP
D5N & D6N



FABRICATED MOUNTING BRACKETS (continued)

Drawing 2 of 2

Current Fabricated Mounting Brackets



Ref.	Part number	Description	Qty	Code	Group
			.		page
Parts list rows are not synced on this VPS for SEBP7241/SEBP72410002 yet.					

ADAPTER AND MOUNTING GROUP

ADAPTER AND MOUNTING GROUP

Drawing 1 of 2

MODEL PA55 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	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:

1. 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.
4. 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:

1. 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 injury.

- 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 capcrews (9) and install lower spacer blocks and capcrews onto mounting brackets.
 - d. Tighten nuts (7) to 600 lb.-ft. (815 N-m) torque. Tighten capcrews (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.

ADAPTER AND MOUNTING GROUP (continued)

Drawing 2 of 2

MODEL PA55
ADAPTER & MOUNTING GROUP
D5N & D6N

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 cap-screws and reposition winch. Retighten mounting capscrews to specified torque after aligning winch.

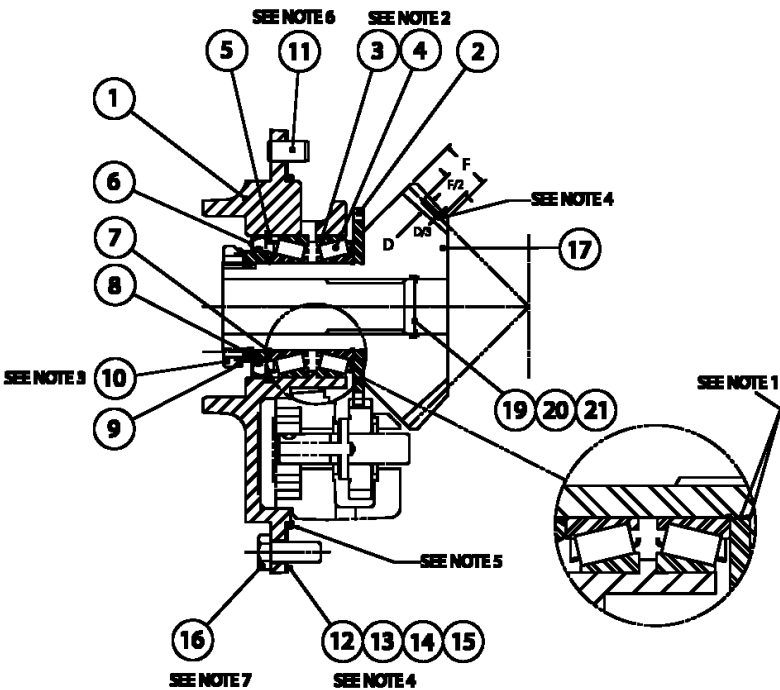
Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP7241/SEBP72410003 yet.					

BEVEL GEAR GROUP

BEVEL GEAR GROUP

Drawing 1 of 1

MODEL PA55
BEVEL GEAR GROUP
D5N & D6N



- NOTES:**
1. Clean bevel and pump pinions with Loctite solvent. Verify press fit before assembly. Apply Loctite 600 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.

3. 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 1/4 the face width shifted toward the toe. Set the backlash to .004 to .012 in. (.10 - .30 mm).

5. Apply approximately 3/16" (5 mm) bead of silastic sealant (RTV 732) to pilot diameter as indicated.

6. Clean with Loctite solvent and apply Loctite 242 to dowel pin and insert into winch case.

7. Clean with Loctite solvent and apply Loctite 242 to threads. Torque to 75 to 83 ft-lb (102 - 113 N-m).

Ref.	Part number	Description	Qty	Code	Group page
1	317-7551	BEVEL PINION CARRIER	1		
2	118-6589	PUMP PINION	1		
3	7K-5448	BEARING CUP	2		
4	7K-5449	BEARING CONE	2		
5	119-2157	RETAINING RING	1		
6	120-7638	OIL SEAL	1		
7	118-5804	O-RING	1		
8	118-8381	SEAL SPACER	1		
9	119-1618	BEARING LOCKWASHER	1		
10	119-1617	BEARING LOCKNUT	1		
11	123-4403	DOWEL PIN	1		
12	118-5854	SHIM GASKET	1		
13	118-5855	SHIM (.005 IN (.13 mm)	2-A R	B	

BEVEL GEAR GROUP (continued)

Ref.	Part number	Description	Qty	Code	Group page
14	118-5856	SHIM (.007 IN (.18 mm)	2-A R	B	
15	118-5857	SHIM (.020 IN (.51 mm)	2-A R	B	
16	8T-8917	CAPSCREW-HEX HEAD (1/2-13 X 1-1/4-IN G8, Z	6		
17	118-6971	BEVEL PINION (18T STANDARD SPEED - 3 SHAFT)	1		
17	119-0536	BEVEL PINION (14T SLOW SPEED - 4 SHAFT)	1		
18	119-2218	BEVEL GEAR SET (18/38T STD. SPD., CODE D)	1	F	
18	119-2219	BEVEL GEAR SET (14/39T SLO. SPD., CODE E)	1	F	
BEVEL GEAR SET INCLUDES ONE BEVEL PINION AND TWO BEVEL GEARS					
19	9X-7545	O-RING	1		
20	1L-3768	RETAINING RING	1		
21	119-2190	PLUG, BEVEL PINION	1		

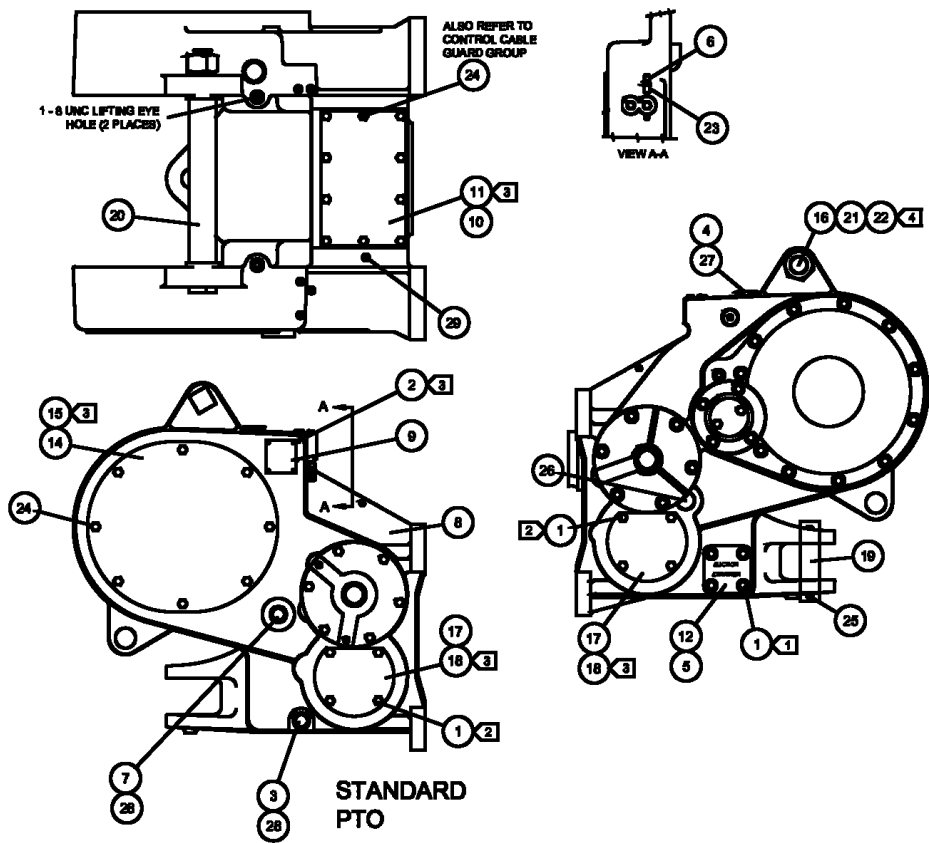
CAT codes: B, F.

WINCH CASE AND COVERS

WINCH CASE AND COVERS

Drawing 1 of 1

WINCH CASE AND COVERS



NOTES:

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

Ref.	Part number	Description	Qty	Code	Group page
1	5P-2228	CAPSCREW-HEX HEAD (1/2-13 X 1)	12		
2	7H-4543	DRIVE SCREW	4		
3	5P-9436	PLUG, DRAIN (MAY BE SUBSTITUTED FOR ITEM 7)	1		
4	5P-1403	PLUG, OIL FILL (INCLUDES ITEM 27)	1		
5	6L-9965	O-RING	2		

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GB6-SEBP7241

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