

CATERPILLAR D6N

AKM / SEBP4350

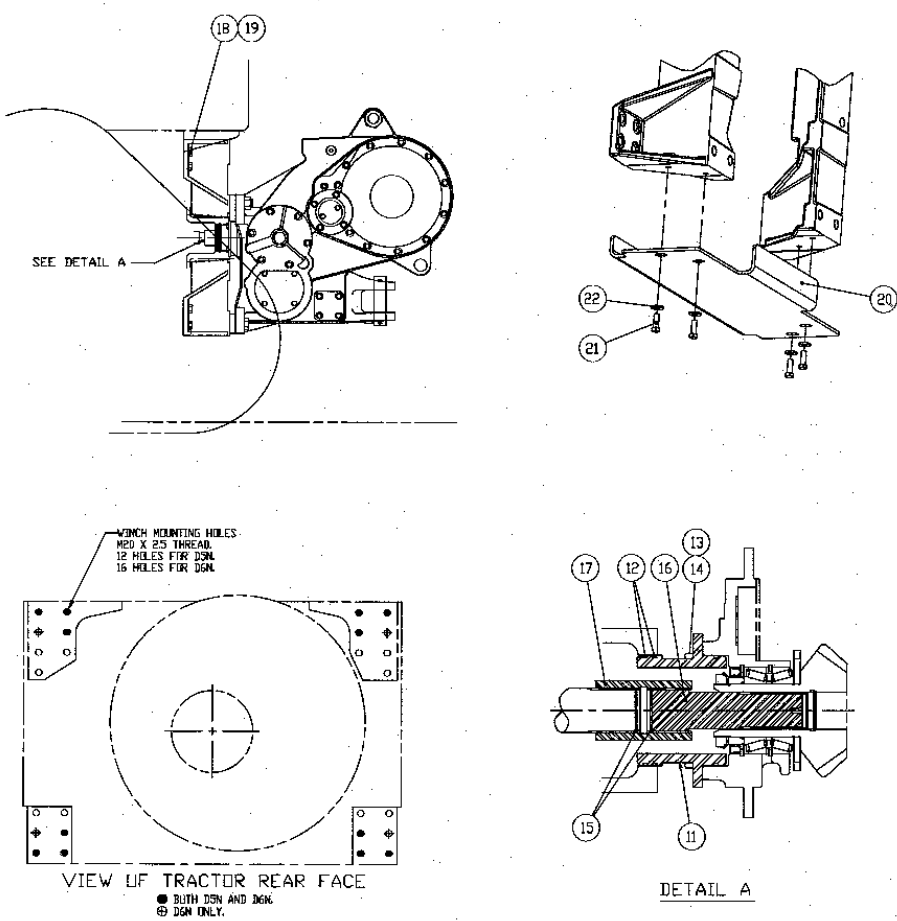
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MOUNTING GROUP

MOUNTING GROUP

Drawing 1 of 1



Ref.	Part number	Description	Qty	Code	Group page
1	244-1718	MOUNTING BRACKET (RH) (FABRICATED)	1		
	010-4387	MOUNTING BRACKET (RH) (CAST)	1	*	
2	244-1719	MOUNTING BRACKET (LH) (FABRICATED)	1		
	010-4386	MOUNTING BRACKET (LH) (CAST)	1	*	
3	224-1119	SPACER (1.00 IN THICK)	4		
6	133-9225	STUD (1 1/8-7X5.75 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 HD) (1-8X4 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 HD) (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		

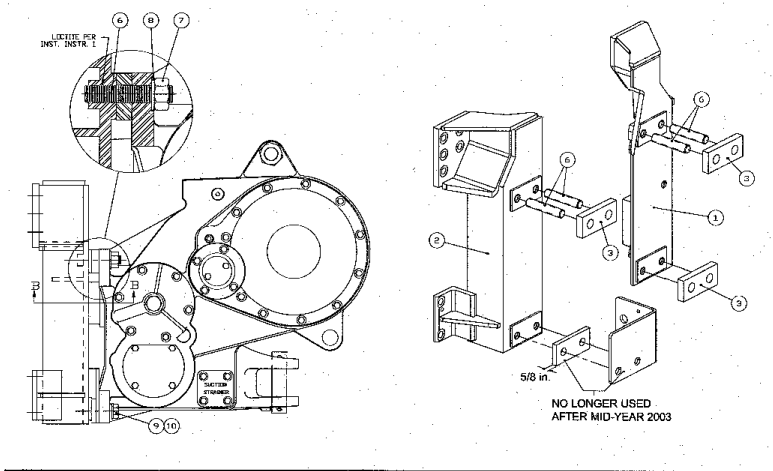
MOUNTING GROUP (continued)

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

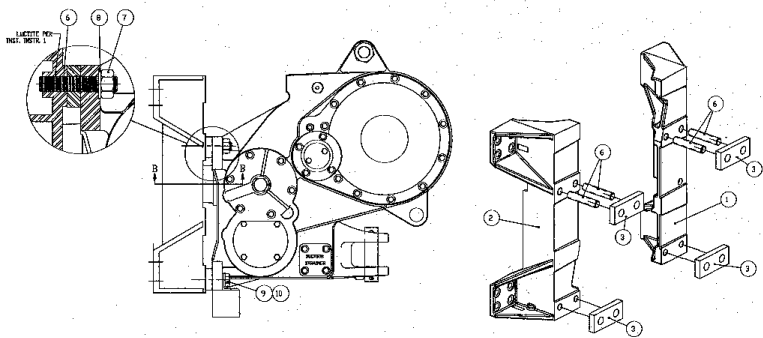
ADAPTER GROUP

ADAPTER GROUP

Drawing 1 of 1



Current Fabricated Mounting Brackets



Ref.	Part number	Description	Qty	Code	Group page
Parts list rows are not synced on this VPS for SEBP4350/SEBP43500002 yet.					

ADAPTER & MOUNTING GROUP

ADAPTER & MOUNTING GROUP

Drawing 1 of 2

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 cap-screws (9) and install lower spacer blocks and cap-screws onto mounting brackets.
 - d. Tighten nuts (7) to 600 lb.-ft. (815 n-m) torque. Tighten cap-screws (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 & MOUNTING GROUP (continued)

Drawing 2 of 2

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.

Tractor Transmission Filter Relocation

The D5N and D6N series tractors are built with a transmission filter group installed at the top left corner of the tractor rear face. The filter group must be repositioned to allow room for the installation of the winch. Refer to the Transmission Filter and Lines Group on pages 5-7 for filter relocation information.

In early 2003, the Caterpillar factory in Grenoble, France changed the external transmission filter from the original "canister-type" filter to a "spin-on type" filter group, P/N 238-6809 on all non-winch ready tractors. Winch ready tractors continued to use the canister-type filter group. The new spin-on filter group is not compatible with the filter relocation kit mentioned above and requires the dealer to purchase and retrofit the early, canister type filter group, 178-0568 unless the tractor was ordered "winch ready" from the Caterpillar factory. The chart below provides the beginning tractor serial numbers equipped with the spin-on filter group if not ordered "winch ready".

Model	Serial Number Prefix	Beginning Serial Number
D5N XL	AGG	700
D5N LGP	AKD	663
D6N XK	ALH	347
D6N XL	AKM	676
D6N LGP	ALR	324
D6N LGP	ALY	706

If the tractors listed above were NOT ordered "WINCH READY" from the Caterpillar factory, they will require the installation of the transmission filter relocation kit 189-3144 AND the canister-type filter group 178-0568.

Ref. Part number Description

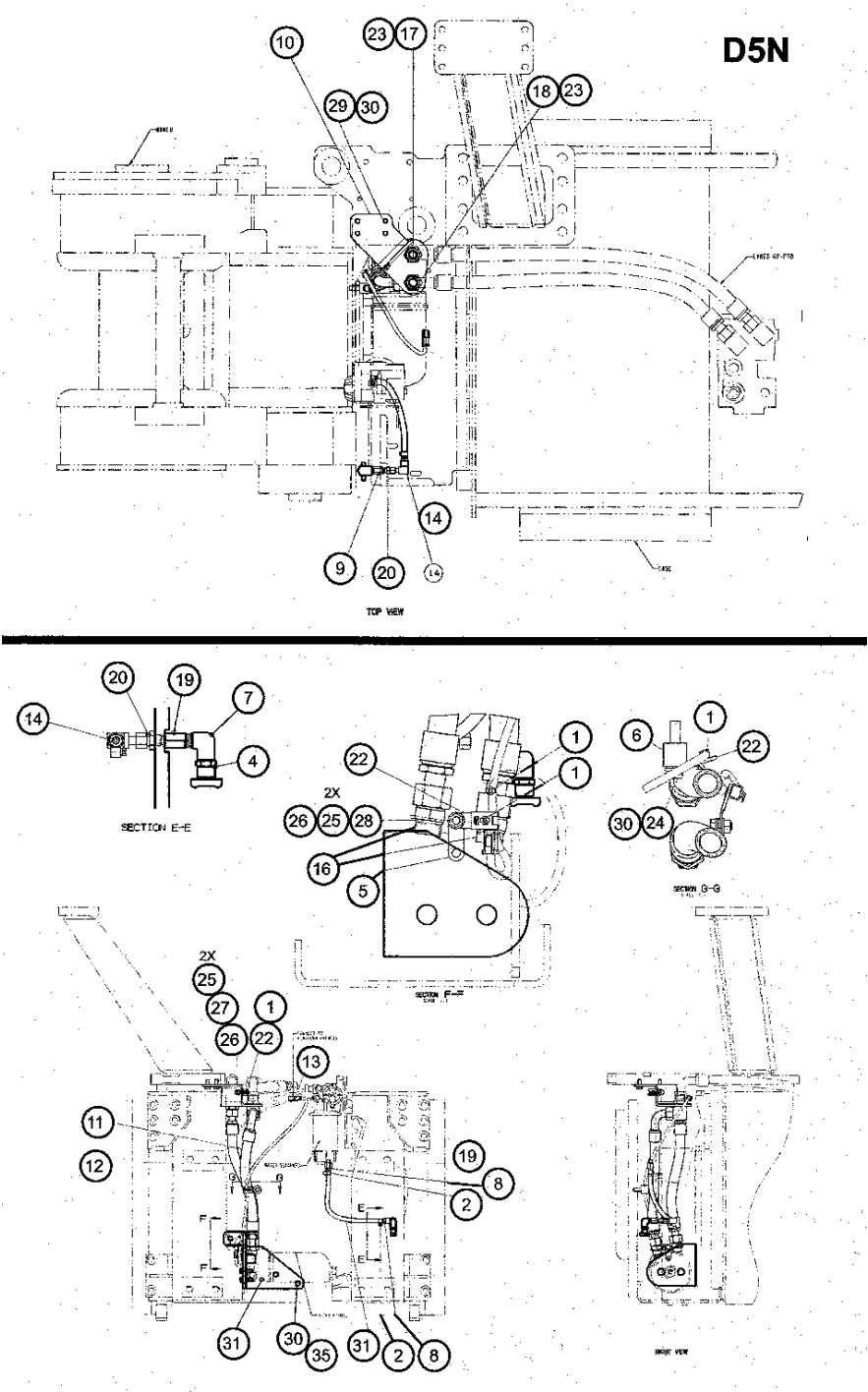
Qty Code Group page

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LINES GROUP

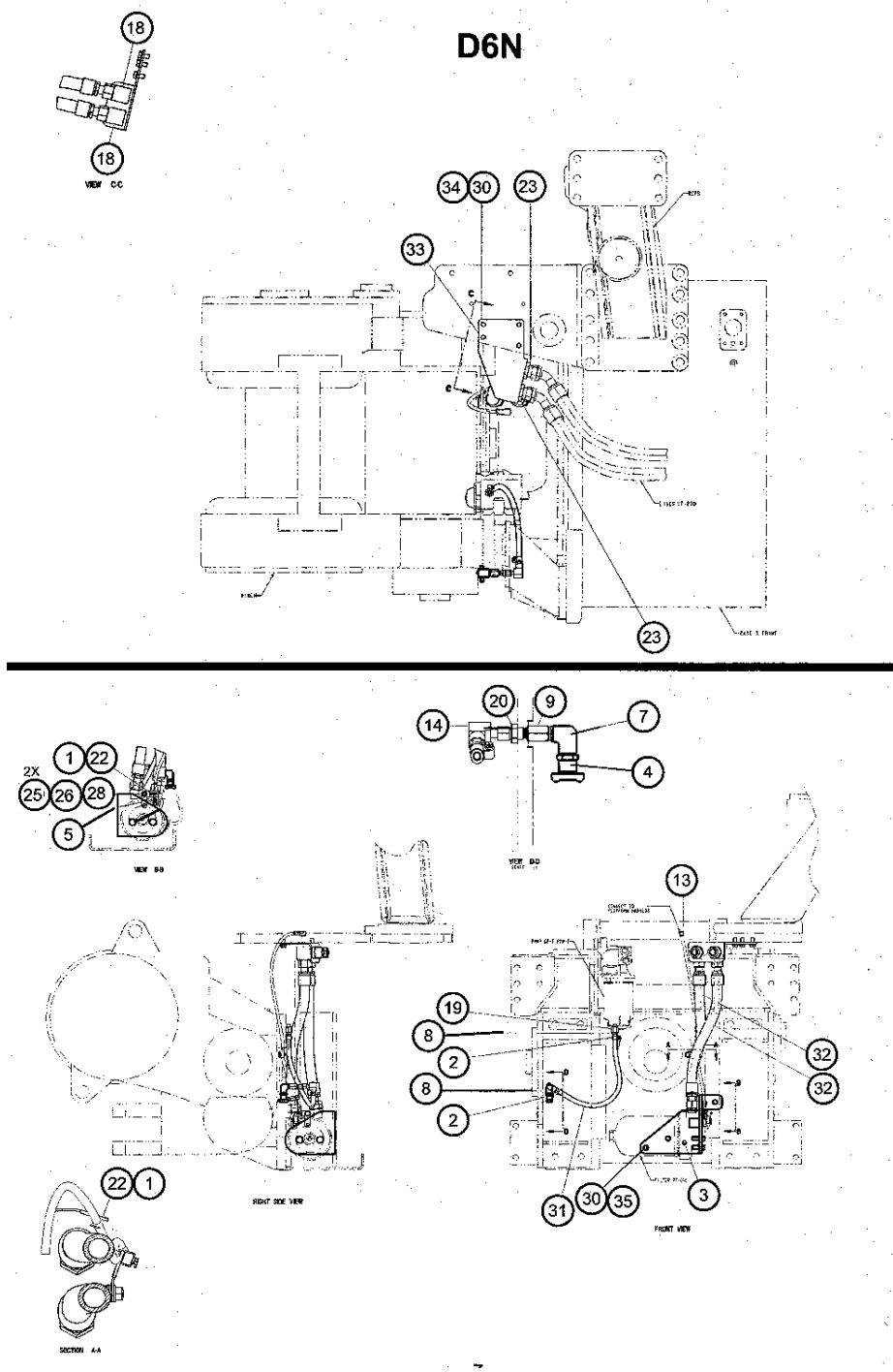
LINES GROUP

Drawing 1 of 2



LINES GROUP (continued)

Drawing 2 of 2



Ref.	Part number	Description	Qty	Code	Group page
1	7K-1181	STRAP (CABLE)	4		
2	5P-4961	CLAMP (HOSE)	2		
3	237-7168	BRACKET	1		
4	010-4861	DRAIN VALVE	1	*	
5	118-7809	PLATE	1		
6	119-3450	SPACER	1		

LINES GROUP (continued)

Ref.	Part number	Description	Qty	Code	Group page
7	106-2105	ELBOW	1		
8	164-5562	CONNECTOR ASSEMBLY	2		
9	169-5863	ADAPTER ASSEMBLY	1		
10	188-7397	BRACKET	1		
11	188-7398	HOSE ASSEMBLY	1		
12	188-7401	HOSE ASSEMBLY	1		
13	196-2695	HARNESS ASSEMBLY	1		
14	213-3745	ELBOW (90° ORFS)	1		
16	148-8335	CONNECTOR ASSEMBLY	2		
17	155-2026	UNION ASSEMBLY	1		
18	164-5577	ELBOW ASSEMBLY	2		
19	168-1969	ADAPTER ASSEMBLY	1		
20	2P-1279	LOCKNUT (9/16-18)	1		
22	4P-7428	CLIP	3		
23	6V-9172	NUT (BULKHEAD)	2		
24	7X-0325	BOLT (1/2-13 X 2 1/2 GD 8 ZINC PLATED)	1		
25	8T-4121	WASHER (HARD) (M10)	4		
26	8T-4133	NUT (M10X1.5)	2		
27	8T-4136	BOLT (M10X1.5 X 25 GD 10.9 ZINC PLATED)	1		
28	8T-4137	BOLT (M10X1.5 X 20 GD 10.9 ZINC PLATED)	1		
29	8T-4139	BOLT (M12X1.75 X 30 GD 10.9 ZINC PLATED)	4		
30	8T-4223	WASHER (HARD) (1/2)	5		
31	5P-1442	HOSE	1		
32	201-0499	HOSE ASSEMBLY	2		
33	201-0500	BRACKET	1		
34	8T-4192	BOLT (M12X1.75 X 25 GD 10.9 ZINC PLATED)	4		
35	8T-4910	BOLT (M12X1.75 X 60 GD 10.9 ZINC PLATED)	3		

CAT source note: * CAT source note; shown as provided

CONTROL GROUP

CONTROL GROUP

Drawing unavailable in the current source. The parts list is preserved below.

Ref.	Part number	Description	Qty	Code	Group page
1	163-3205	DUAL AXIS CONTROLLER	1		
2	185-2054	CONTROL MODULE	1		
3	138-2426	MOUNTING PLATE	1		
4	138-2427	WIRING HARNESS	1		
5	147-2721	PLATE (CONTROLLER MOUNTING)	1		
6	8T-9394	CAPSCREW (BUTTON HD) (10-24 X 1/2 SS)	8		
7	138-2434	INDICATOR LIGHT	1		
8	138-2435	DECAL (CONTROL) (W/FREESPOOL)	1		
10	138-2441	DECAL (FILTER)	1		
11	3E-8042	CAPSCREW (BUTTON HD)	4		
12	8T-4896	FLATWASHER (3/8)	6		
13	7K-1181	WIRE TIE	6		
16	5M-3062	CAPSCREW (HEX HD) (3/8-18 X 3/4 GD 8 Z)	2		

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AKM-SEBP4350

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