

CATERPILLAR 528

67V / SEBP1132

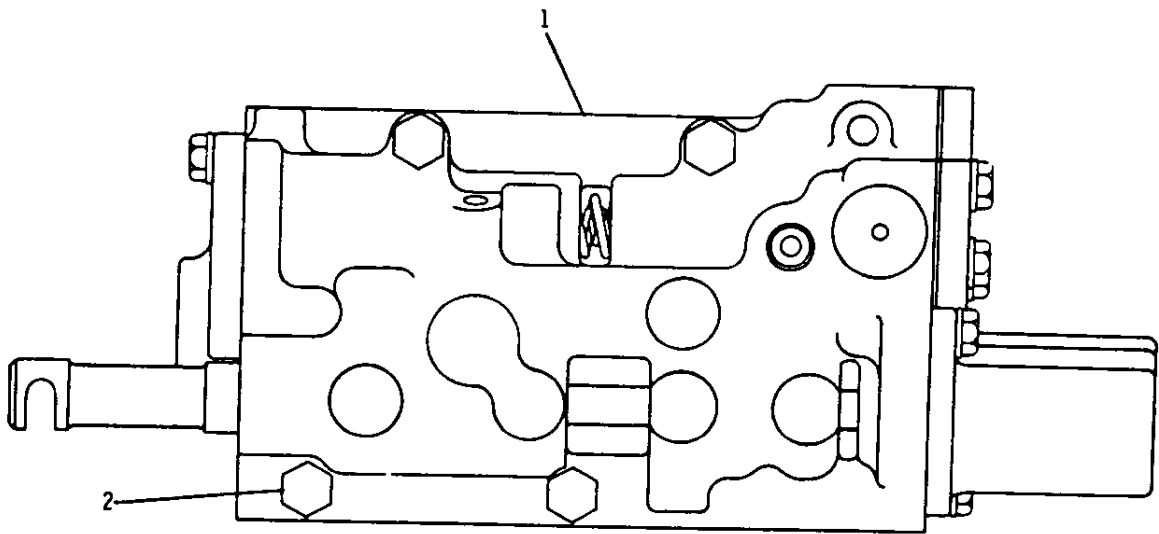
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Basic engine	

3P-7003 CONTROL GP-WINCH HYDRAULIC

3P7003 WINCH HYDRAULIC CONTROL GROUP 3P7002 Valve parts are shown on Page 4

Drawing 1 of 1



REF. NO.	PART NUMBER	DESCRIPTION.	QTY
1	3P7002	VALVE GROUP----- (Separate Illustration)	1
2	T65	BOLT-----	4
	5M2894	WASHER-----	4

212550

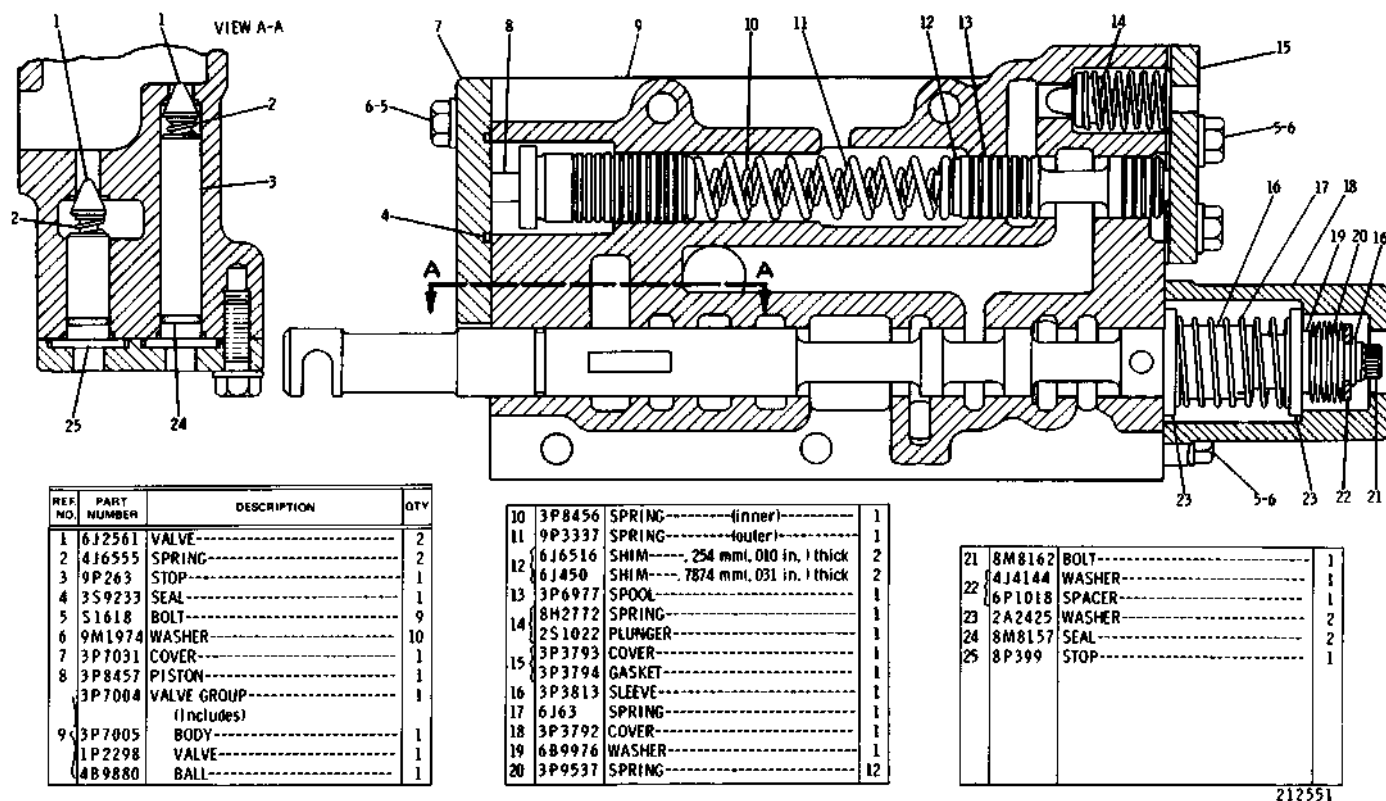
Ref.	Part number	Description	Qty	Code	Group page
1	3P-7002	VALVE GROUP	1	Y	
		(Separate Illustration)			
2	0T-0065	BOLT	4		
	5M-2894	WASHER	4		

CAT codes: Y.

3P-7002 VALVE GP-CONTROL

3P7002 SELECTOR AND PRESSURE CONTROL VALVE GROUP Part of 3P7003 Hydraulic Control Group shown on Page 3

Drawing 1 of 1



212551

Ref.	Part number	Description	Qty	Code	Group page
1	6J-2561	VALVE	2		
2	4J-6555	SPRING	2		
3	9P-0263	STOP	1		
4	3S-9233	SEAL	1		
5	0S-1618	BOLT	9		
6	9M-1974	WASHER	10		
7	3P-7031	COVER	1		
8	3P-8457	PISTON	1		
9	3P-7004	VALVE GROUP	1		
(Includes)					
	3P-7005	BODY	1		
	1P-2298	VALVE	1		
	4B-9880	BALL	1		
10	3P-8456	SPRING (inner)	1		
11	9P-3337	SPRING (outer)	1		
12	6J-6516	SHIM .254 mm(.010 in.) thick	2		

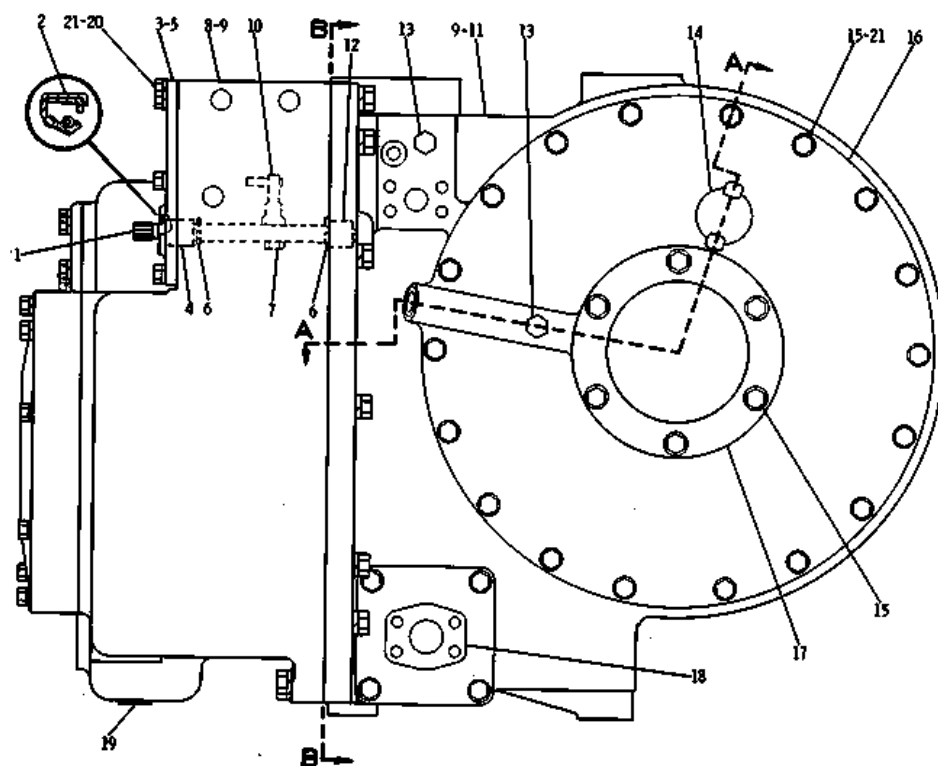
3P-7002 VALVE GP-CONTROL (continued)

Ref.	Part number	Description	Qty	Code	Group page
	6J-0450	SHIM .7874 mm(.031 in.) thick	2		
13	3P-6977	SPOOL	1		
14	8H-2772	SPRING	1		
	2S-1022	PLUNGER	1		
15	3P-3793	COVER	1		
	3P-3794	GASKET	1		
16	3P-3813	SLEEVE	1		
17	6J-0063	SPRING	1		
18	3P-3792	COVER	1		
19	6B-9976	WASHER	1		
20	3P-9537	SPRING	12		
21	8M-8162	BOLT	1		
22	4J-4144	WASHER	1		
	6P-1018	SPACER	1		
23	2A-2425	WASHER	2		
24	8M-8157	SEAL	2		
25	8P-0399	STOP	1		

3P-4349 WINCH GP-TOWING

3P4349 WINCH GROUP -- Part 1 of 7 Serial No. 67V1 to 67V383 inclusive 8P252 Screen parts are shown on Page 12

Drawing 1 of 1



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	3P5851	SHAFT-----	1
2	9H223	SEAL-----	1
3	6P791	COVER ASSEM.-----	1
		(Includes)	
3	1F1006	DOWEL-----	2
4	8H8175	BEARING-----	1
5	3P5858	GASKET-----	1
6	3B4617	COTTER PIN-----	2
6	4H1394	WASHER-----	2
7	S1571	BOLT-----	1
7	5M2894	WASHER-----	1
8	3P4300	CASE-----	1
9	7M7260	LIQUID GASKET-----	1
10	7S8494	LEVER ASSEM.-----	1
		(Includes)	
10	3P4302	CASE ASSEM.-----	1
		(Includes)	
11	3B2225	DOWEL-----	2
12	8H8175	BEARING-----	1
13	9S4191	PLUG-----	1
13	3J1907	SEAL-----	1
14	6P9548	KNOB-----	1
15	S1588	BOLT-----	24
16	3P713	CAGE ASSEM.-----	1
		(Includes)	
16	3P712	CAGE-----	1
16	4B9784	BALL-----	1
17	3P714	COVER-----	1
18	8P252	SCREEN GROUP-----	1
		(Separate Illustration)	
19	1B5174	PLUG-----	1
20	S1594	BOLT-----	14
21	3B4506	LOCKWASHER-----	38

212542

Ref.	Part number	Description	Qty	Code	Group page
1	3P-5851	SHAFT	1		
2	9H-0223	SEAL	1		
3	6P-0791	COVER ASSEM.	1		
	(Includes)				
	1F-1006	DOWEL	2		
4	8H-8175	BEARING	1		
5	3P-5858	GASKET	1		
6	3B-4617	COTTER PIN	2		
	4H-1394	WASHER	2		
7	0S-1571	BOLT	1		
	5M-2894	WASHER	1		
8	3P-4300	CASE	1		
9	7M-7260	LIQUID GASKET			
10	7S-8494	LEVER ASSEM.	1		
	(Includes)				
11	3P-4302	CASE ASSEM.	1		
	(Includes)				

3P-4349 WINCH GP-TOWING (continued)

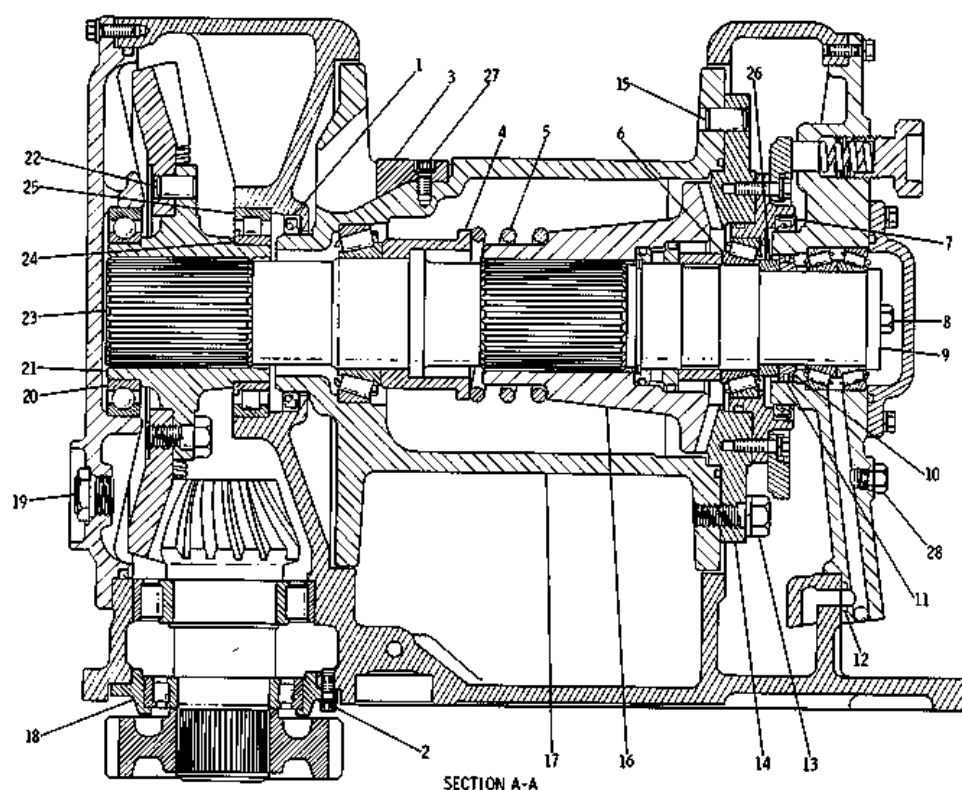
Ref.	Part number	Description	Qty	Code	Group page
	3B-2225	DOWEL	2		
12	8H-8175	BEARING	1		
13	9S-4191	PLUG	1		
	3J-1907	SEAL	1		
14	6P-9548	KNOB	1		
15	0S-1588	BOLT	24		
16	3P-0713	CAGE ASSEM.	1		
(Includes)					
	3P-0712	CAGE	1		
	4B-9784	BALL	1		
17	3P-0714	COVER	1		
18	8P-0252	SCREEN GROUP	1	Y	
(Separate Illustration)					
19	1B-5174	PLUG	1		
20	0S-1594	BOLT	14		
21	3B-4506	LOCKWASHER	38		

CAT codes: Y.

3P-4349 WINCH GP-TOWING

3P4349 WINCH GROUP -- Part 2 of 7 Serial No. 67V1 to 67V383 inclusive

Drawing 1 of 1



REF. NO.	PART NUMBER	DESCRIPTION	QTY
1	6K2430	SEAL	1
2	1T765	BOLT	4
3	3P4223	LOCK	1
4	3P4194	RETAINER	1
5	8P3079	SPRING	1
6	030061	CONE	1
	030060	CUP	1
7	2K1383	SEAL	1
8	0S484	BOLT	1
9	3P4224	RETAINER	1
10	3P4190	CARRIER	1
11	1T794	SEAL RING	1
12	2J157	SEAL	1
13	1A458	BOLT	11
	3B4512	LOCKWASHER	11
14	3P718	JAW ASSEM. (Includes)	1
15	6F4161	DOWEL	1
16	3P716	JAW	1
17	3P772	DRUM	1
18	3P746	CAGE	1
19	4J4742	BODY ASSEM. (sight gauge)	1
	7M8485	SEAL	1
20	8F2021	BEARING	1
21	3P710	HUB ASSEM. (Includes)	1
22	6F4161	DOWEL	1
23	3P766	SHAFT	1
24	5P6680	RACE	1
25	5P583	RACE & ROLLER ASSEM.	1
26	3P4192	SPACER	1
27	1T822	BOLT	1
	954191	PLUG	1
28	3J1907	SEAL	1

212543

Ref.	Part number	Description	Qty	Code	Group page
1	6K-2430	SEAL	1		
2	1T-0765	BOLT	4		
3	3P-4223	LOCK	1		
4	3P-4194	RETAINER	1		
5	8P-3079	SPRING	1		
6	030-0061	CONE	1		
	030-0060	CUP	1		
7	2K-1383	SEAL	1		
8	0S-0484	BOLT	1		
9	3P-4224	RETAINER	1		
10	3P-4190	CARRIER	1		
11	1T-0794	SEAL RING	1		
12	2J-0157	SEAL	1		
13	1A-0458	BOLT	11		
	3B-4512	LOCKWASHER	11		
14	3P-0718	JAW ASSEM.	1		
(Includes)					

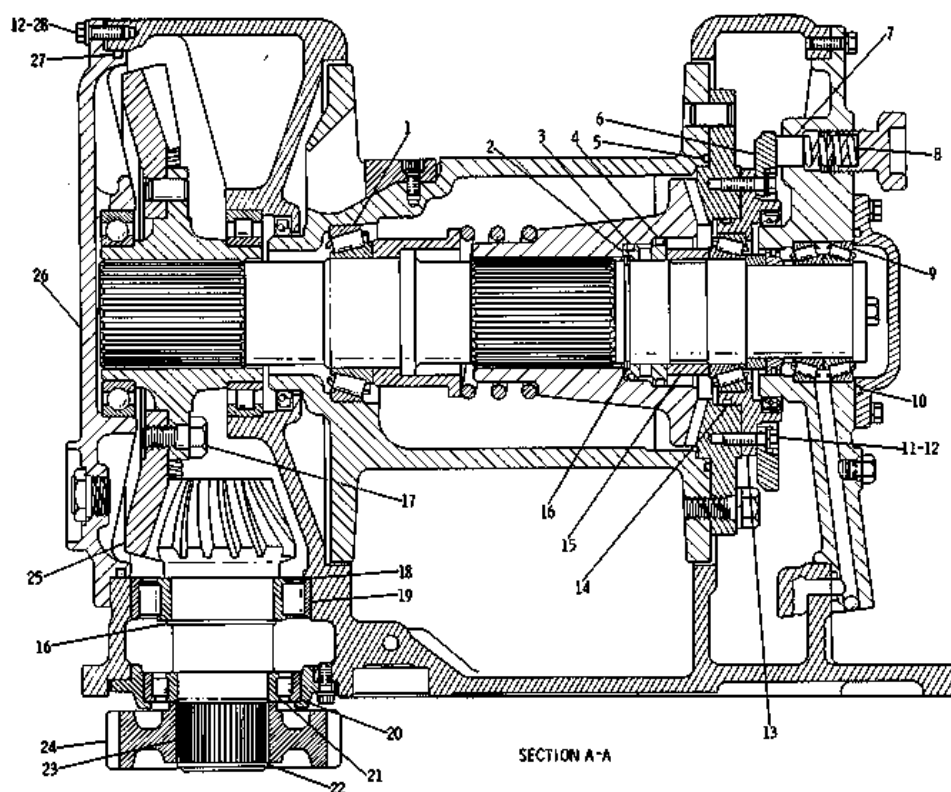
3P-4349 WINCH GP-TOWING (continued)

Ref.	Part number	Description	Qty	Code	Group page
15	6F-4161	DOWEL	1		
16	3P-0716	JAW	1		
17	3P-0772	DRUM	1		
18	3P-0746	CAGE	1		
19	4J-4742	BODY ASSEM. (sight gauge)	1		
	7M-8485	SEAL	1		
20	8F-2021	BEARING	1		
21	3P-0710	HUB ASSEM.	1		
(Includes)					
22	6F-4161	DOWEL	1		
23	3P-0766	SHAFT	1		
24	5P-6680	RACE	1		
25	5P-0583	RACE & ROLLER ASSEM.	1		
26	3P-4192	SPACER	1		
27	1T-0822	BOLT	1		
28	9S-4191	PLUG	1		
	3J-1907	SEAL	1		

3P-4349 WINCH GP-TOWING

3P4349 WINCH GROUP -- Part 3 of 7 Serial No. 67V1 to 67V383 inclusive

Drawing 1 of 1



REF NO	PART NUMBER	DESCRIPTION	QTY
1	1P3934	CUP	1
1	1P3935	CONE	1
2	3P741	CARRIER	1
3	9F8477	SEAL RING	1
4	9F3788	SEAL RING	1
5	5S3676	SEAL	1
6	6P9545	PLATE	1
7	6P9546	PLUG	1
8	6P9547	SPRING	1
9	9S7949	CUP	2
9	9S7950	CONE	2
10	5F3106	SEAL	1
11	5S1591	BOLT	6
12	3B4506	LOCKWASHER	24
13	3P722	CAGE	1
13	3P723	SHIM PACK	2
14	2D8009	SEAL	1
15	3P4191	SPACER	1
16	7S3027	RING	2
17	5S1626	BOLT	12
18	5S7021	RACE & ROLLER ASSEM.	1
19	5S7020	RACE	1
20	2H6489	RACE	1
21	2H6490	RACE & ROLLER ASSEM.	1
22	8H8530	RING	1
23	3P707	SHAFT	1
24	3P715	GEAR (36 teeth)	1
25	3P708	GEAR (48 teeth)	1
26	3P720	CAGE	1
26	3P721	SHIM PACK	2
27	5M7329	SEAL	1
28	5S1583	BOLT	18

212544

Ref.	Part number	Description	Qty	Code	Group page
1	1P-3934	CUP	1		
	1P-3935	CONE	1		
2	3P-0741	CARRIER	1		
3	9F-8477	SEAL RING	1		
4	9F-3788	SEAL RING	1		
5	5S-3676	SEAL	1		
6	6P-9545	PLATE	1		
7	6P-9546	PLUG	1		
8	6P-9547	SPRING	1		
9	9S-7949	CUP	2		
	9S-7950	CONE	2		
10	5F-3106	SEAL	1		
11	0S-1591	BOLT	6		
12	3B-4506	LOCKWASHER	24		
13	3P-0722	CAGE	1		
	3P-0723	SHIM PACK	2		
14	2D-8009	SEAL	1		

3P-4349 WINCH GP-TOWING (continued)

Ref.	Part number	Description	Qty	Code	Group page
15	3P-4191	SPACER	1		
16	7S-3027	RING	2		
17	0S-1626	BOLT	11		
18	5S-7021	RACE & ROLLER ASSEM.	1		
19	5S-7020	RACE	1		
20	2H-6489	RACE	1		
21	2H-6490	RACE & ROLLER ASSEM.	1		
22	8H-8830	RING	1		
23	3P-0707	SHAFT	1		
24	3P-0715	GEAR (36 teeth)	1		
25	3P-0708	GEAR (48 teeth)	1		
26	3P-0720	CAGE	1		
	3P-0721	SHIM PACK	2		
27	5M-7329	SEAL	1		
28	0S-1588	BOLT	18		

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