

CATERPILLAR D8R II

AKA / SEBP3485

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WINCH INSTALLATION

MODEL PA110VS WINCH INSTALLATION CATERPILLAR D8R SERIES II

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FOREWORD

This manual includes parts listings and installation information for the PA110VS winch for use on the CATERPILLAR D8R Series II tractor.

Continuing product improvement may cause changes in your PACCAR built winch, which may not be included in this manual. If a question arises regarding your winch or this manual, contact your nearest CAT dealer, or the PACCAR WINCH DIVISION PRODUCT SUPPORT DEPARTMENT at 1-918-251-8511, Monday – Friday, 0800 hrs – 1630 hrs CST, or by fax at 1-918-259-1575. Please provide the complete winch MODEL number and SERIAL number when making inquiries.

INSTRUCTIONS

⚠ CAUTION ⚠

Cleanliness is of utmost importance when working on hydraulic equipment. Contamination may cause damage to close tolerance hydraulic components, which may result in erratic operation and reduced service life.

⚠ WARNING ⚠

Personal injury can result from the sudden release of hydraulic oil under pressure or hot oil. Hydraulic oil pressure can remain in the hydraulic system after the tractor engine has been stopped. Serious injury can be caused if this pressure is not released before performing any service on the hydraulic system or equipment. Make sure all of the work tools have been lowered to the ground, and the oil is cool before removing any components or lines. Remove the oil filler cap only when the engine is stopped, and the filler cap is cool enough to touch with the bare hand.

⚠ WARNING ⚠

Winch weighs approximately 3,950 lb (1,790 kg), without wire rope and mounting adapters. Make certain that lifting equipment has adequate capacity. Failure to use adequate lifting equipment may result in property damage, personal injury or death.

NOTE: Refer to the appropriate Caterpillar service manuals for additional information regarding service procedures to the tractor.

To prepare the tractor for service, lower the blade to the ground. Turn the engine off and relieve any oil pressure in all tractor circuits as required. Relieve oil pressure in the hydraulic reservoir by opening the fill cap. Turn the

tractor master electrical switch off.

1. Drain the tractor hydraulic oil into a suitable container. Recycle or dispose of used oil in an environmentally responsible manner. Securely install the hydraulic reservoir drain plug after draining.
2. Clean all paint, oil, grease, rust and dirt from the mounting surfaces of the winch, winch adapter brackets and tractor rear face.

⚠ WARNING ⚠

Winch adapters weigh approximately 340 lb (154 kg). Make certain that lifting equipment has adequate capacity. Failure to use adequate lifting equipment may result in property damage, personal injury or death.

3. Attach winch adapters, items 21 and 22, to the tractor rear face with bolts, item 20. Apply Loctite 272 or equivalent to bolt threads. Leave bolts loose at this time to aid alignment of winch to adapters.
4. Carefully hoist the winch and install to the winch adapters, using bolts, item 20. Apply Loctite 272 or equivalent to bolt threads.
5. Torque all winch mounting bolts to 1,100 lb•ft (1,500 N•m).
6. Remove and discard the motor port cover plate and bolts on the upper port of the winch motor.
7. Attach one end of the REEL-OUT hose, item 5, to the manifold at the upper motor port. Use split flange halves, item 1, D-ring, item 4, and fasteners, items 2 and 3. Torque bolts to 50 lb•ft (70 N•m). Attach the opposite end to the LH port of the manifold, utilizing hardware previously defined and new D-ring, item 4.
8. Attach one end of the REEL-IN hose, item 7, to the port in the brake valve on the lower motor port, utiliz-

Ref.	Part number	Description	Qty	Code	Group page
1	1P-5766	SPLIT FLANGE HALF,-16 (CAT)	2		
2	7X-0313	BOLT (7/16-14 X 2-3/4 G8)	4		
3	8T-5360	WASHER, HARD (7/16)	4		
4	1P-3703	D-RING,-16	3		
5	163-3192	HOSE AS.,-16 X 31.25, XT5	1		

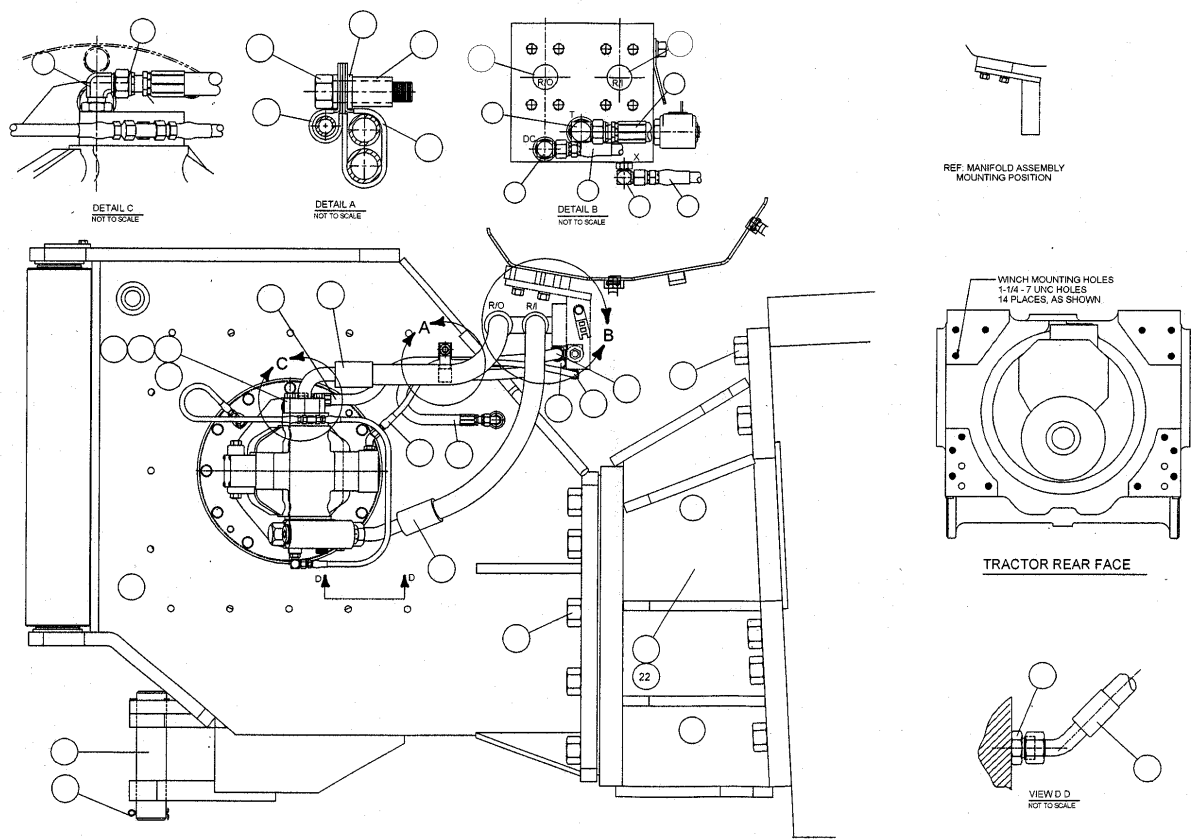
WINCH INSTALLATION (continued)

Ref.	Part number	Description	Qty	Code	Group page
6	148-8317	ADAPTER,-12 ORB /-16 ORFS	1		
7	161-8889	HOSE AS.,-16 X 32.68, XT6	1		
8	4J-0520	O-RING	1		
9	8W-6688	HOSE AS.,-4 X 26	1		
10	152-8360	HOSE AS.,-6 X 36	1		
11	148-8378	ELBOW, 90°,-6 ORB /-6 ORFS	1		
12	163-3189	HOSE AS.,-8 X 29	1		
13	148-8364	ELBOW, 90°,-8 ORB /-8 ORFS	1		
14	7X-0326	BOLT (1/2-13 X 3 G8)	1		
15	1F-1560	SPACER	1		
16	6D-7573	CLIP	1		
17	1S-6420	CLIP	1		
18	8T-4223	WASHER, HARD (1/2)	2		
19	148-8369	ELBOW, 90°,-4 ORB /-4 ORFS	1		
20	7X-0427	BOLT (1-1/4-7 X 3-1/2 G8)	24		
21	152-8371	ADAPTER, RH	1		
22	152-8372	ADAPTER, LH	1		
23	197-7837	HITCH PIN	1		
24	3B-5320	COTTER PIN	2		

MOUNTING GROUP/MOTOR LINES GROUP

MODEL PA110VS MOUNTING GROUP/MOTOR LINES GROUP CATERPILLAR D8R SERIES II

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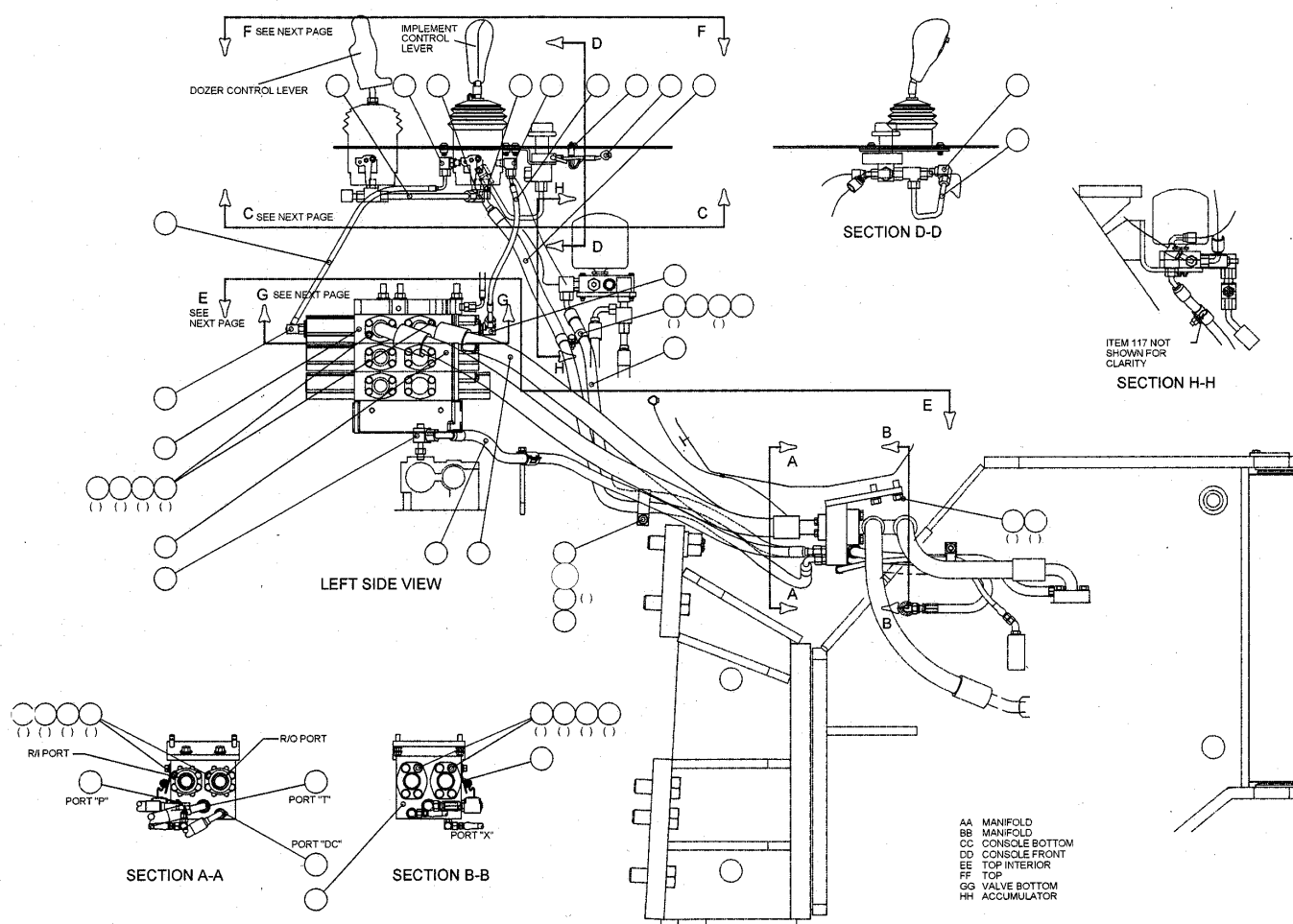


Ref.	Part number	Description	Qty	Code	Group page
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PILOT LINES AND WINCH LINES GROUP

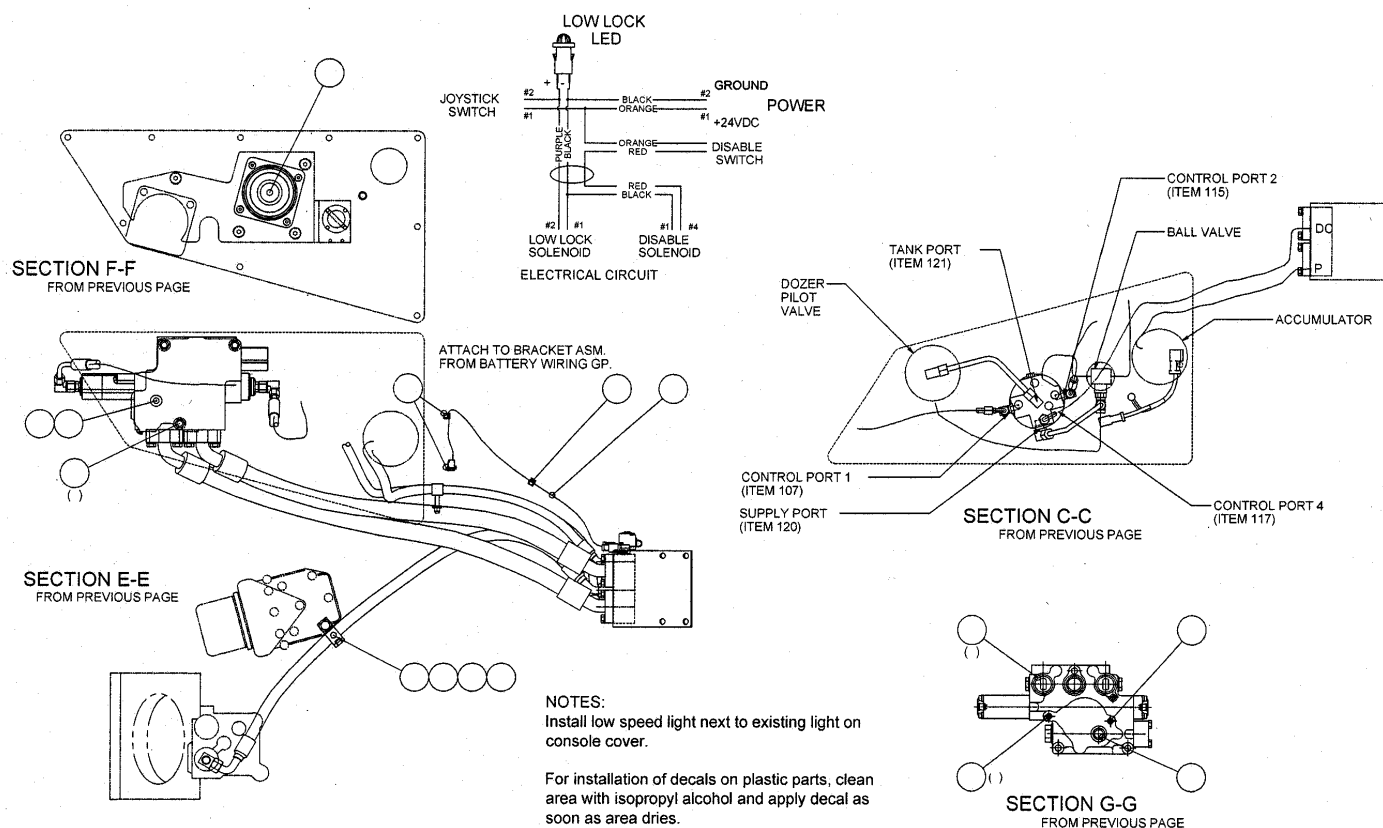
MODEL PA110VS PILOT LINES AND WINCH LINES GROUP CATERPILLAR D8R SERIES II

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PILOT LINES AND WINCH LINES GROUP (continued)

Drawing 2 of 2



Ref.	Part number	Description	Qty	Code	Group page
1	160-0766	JOYSTICK CONTROL AS.	1		
105	126-0810	INDICATOR LIGHT, GREEN	1		
107	159-3453	HOSE AS.	1		
115	161-2109	HOSE AS.	1		
116	161-2338	HOSE AS.	1		
117	161-2339	HOSE AS.	1		
120	163-3434	TUBE AS.	1		
121	163-3435	TUBE AS.	1		
122	165-0107	HARNESS AS.	1		
142	148-8336	ADAPTER,-6 ORB/-6 ORFS	3		
145	148-8361	ELBOW	1		
147	148-8369	ELBOW, 90°,-4 ORB/-4 ORFS	2		
150	148-8378	ELBOW, 90°,-6 ORB/-6 ORFS	3		
162	4L-6454	BOLT (3/8-16 X 1 G8)	1		
163	5K-5338	CLIP	1		

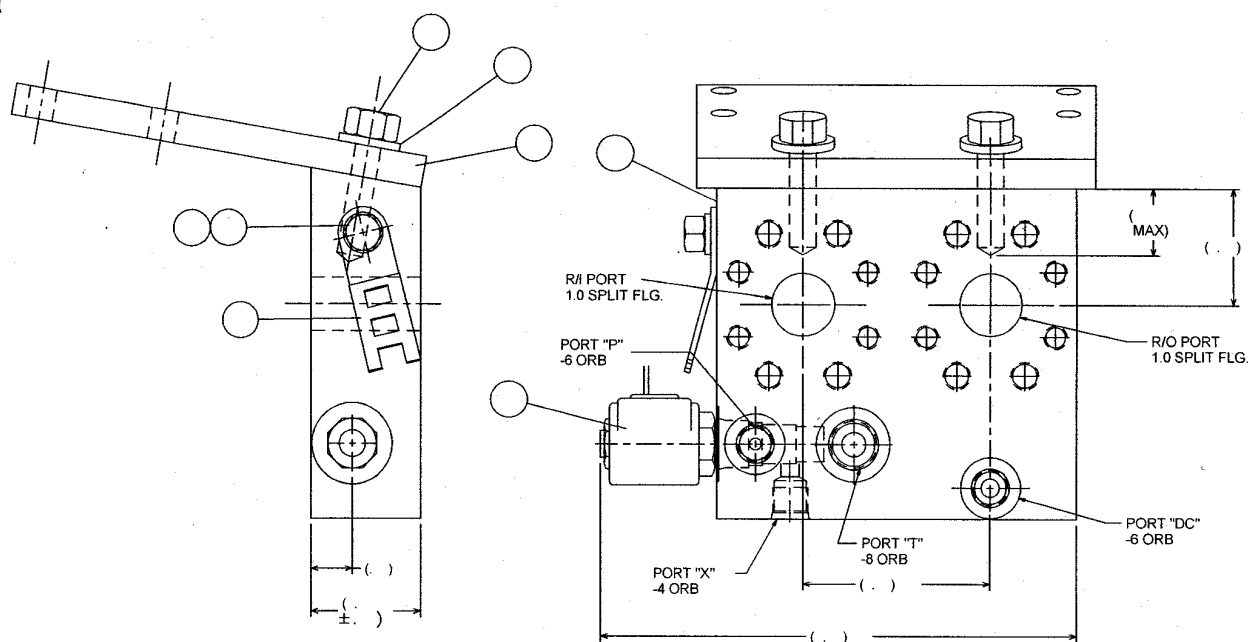
PILOT LINES AND WINCH LINES GROUP (continued)

Ref.	Part number	Description	Qty	Code	Group page
166	5S-7383	BOLT (3/8-16 X 1-3/4 G8)	1		
167	6V-8801	NUT (3/8-16)	2		
170	8M-2773	CLIP	2		
179	8T-4896	WASHER, HARD (3/8)	25		
201	7K-1181	STRAP, CABLE	4		
202	161-3948	HOSE AS.,-8 X 56.1	1		
203	161-8893	MANIFOLD AS. (REFER TO PAGE)	1		
204	170-4891	HARNESS	1		
205	197-8494	HOSE AS.	1		
206	197-8495	HOSE AS.	1		
208	148-8340	ADAPTER,-8 ORB/-8 ORFS	1		
211	148-8433	TEE, ORFS	1		
213	1P-3703	D-RING,-16	2		
214	1P-4577	SPLIT FLANGE HALF,-16	8		
215	1P-5766	SPLIT FLANGE HALF,-16 (CAT)	4		
216	4J-0520	O-RING	4		
218	5S-7382	BOLT (3/8-16 X 1-3/8 G8)	16		
219	7X-0294	BOLT	1		
220	8C-6877	BOLT (7/16-14 X 1-3/4 G8)	8		
221	8T-1891	CLIP	1		
222	8T-1892	CLIP	1		
224	8T-5360	WASHER, HARD (7/16)	8		
225	9B-7237	BOLT (3/8-16 X 1-1/4 G8)	4		
301	4B-4158	DRIVE SCREW	1		
302	124-2906	CONTROL VALVE SECTION	1		
306	164-7677	ROD	3		
307	164-7983	I.D. PLATE	1		
314	4J-0522	O-RING	3		
315	4J-8997	O-RING	1		
317	6V-0913	O-RING	1		
318	6V-5555	O-RING	2		
	164-9928	DECAL	1		
	164-9930	DECAL	1		

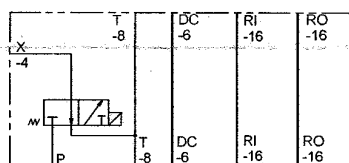
MANIFOLD ASSEMBLY

MODEL PA110VS MANIFOLD ASSEMBLY CATERPILLAR D8R SERIES II

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REF.-DUAL SPLIT FLANGE PATTERNS



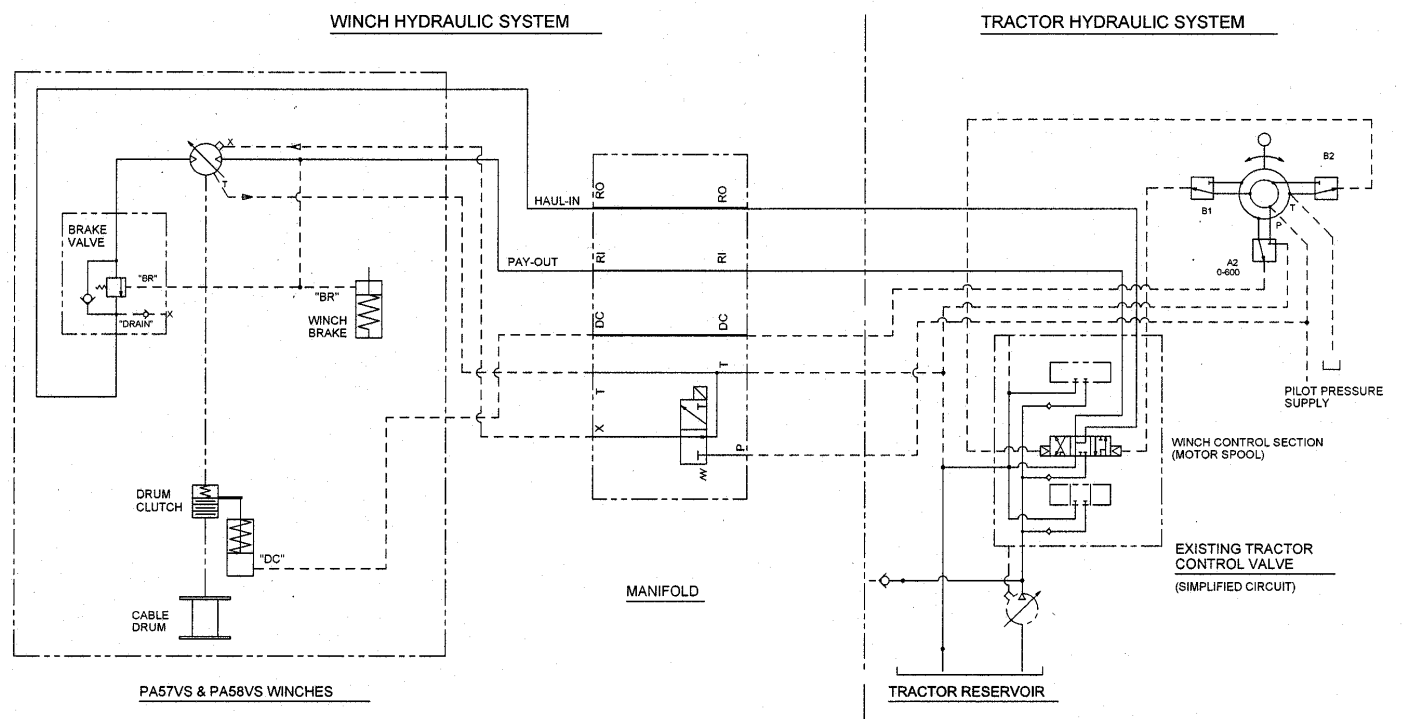
HYDRAULIC CHART

Ref.	Part number	Description	Qty	Code	Group page
1	161-8893	MANIFOLD AND CARTRIDGE AS	1		
	152-9095	SOLENOID VALVE AND TERMINATION AS.-LOW RANGE LOCK	1		
	126-0858	SOLENOID VALVE CARTRIDGE AS.	1		
	127-1955	SEAL KIT (FOR 1260858)	1		
	126-3900	COIL (FOR 1260585)	1		
2	161-8885	MANIFOLD	1		
3	161-8891	PLATE	1		
4	8T-4223	WASHER, HARD (1/2)	2		
5	8T-8917	BOLT (1/2-13 X 1-1/4 G8)	2		
6	4P-7581	CLIP	1		
7	5P-8167	BOLT (3/8-16 X 5/8 G8)	1		
8	8T-4896	WASHER, HARD (3/8)	1		

HYDRAULIC CIRCUIT

MODEL PA110VS HYDRAULIC CIRCUIT CATERPILLAR D8R SERIES II

Drawing 1 of 1

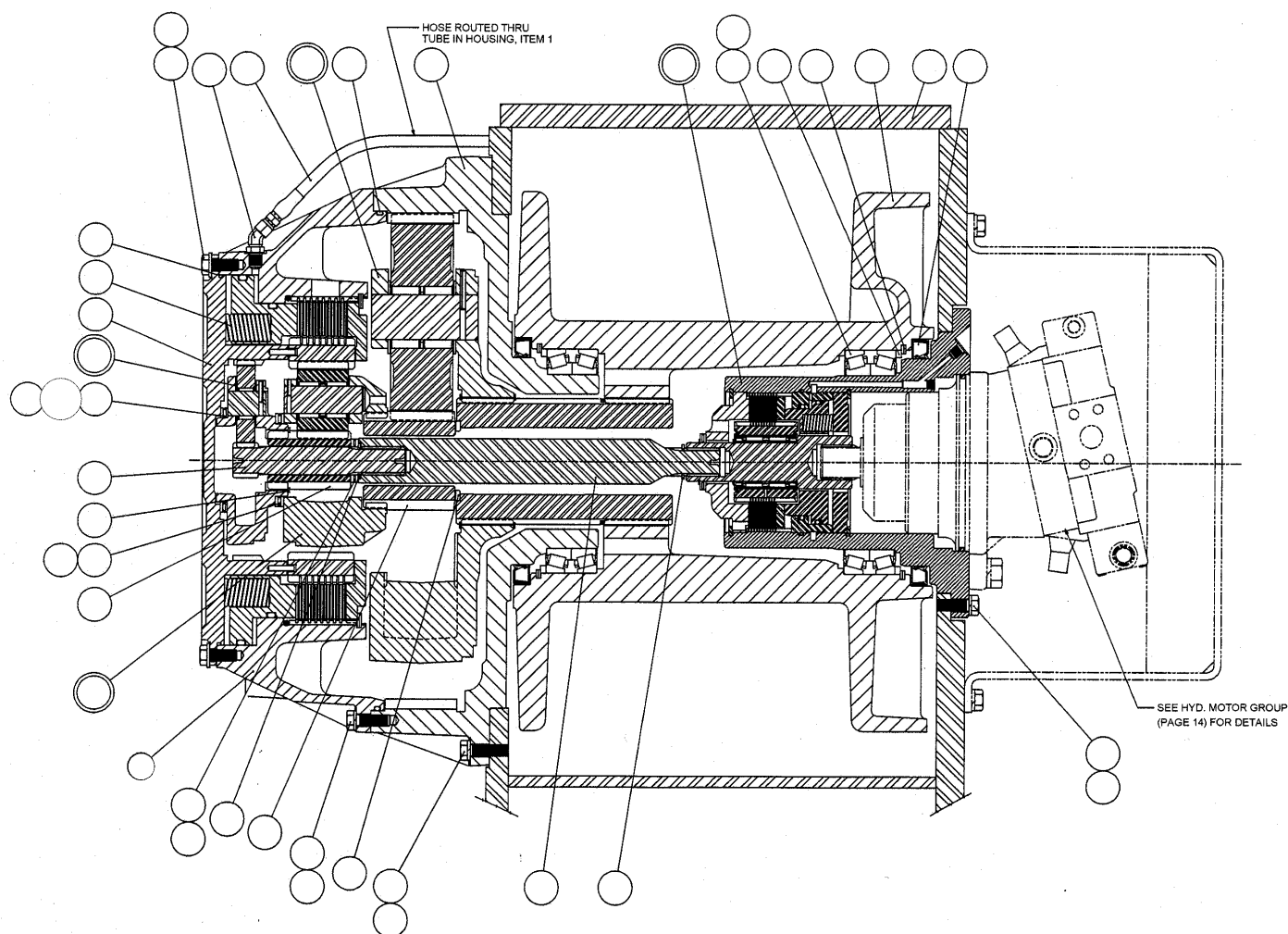


Ref.	Part number	Description	Qty	Code	Group
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WINCH GROUP

MODEL PA110VS WINCH GROUP CATERPILLAR D8R SERIES II

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Ref.	Part number	Description	Qty	Code	Group page
1	126-2470	WINCH HOUSING	1		
2	126-7137	CABLE DRUM	1		
3	126-0771	BEARING CONE	4		
4	126-0775	BEARING CUP	4		
5	126-0774	SPACER RING	2		
6	126-0773	RETAINING RING	2		
7	126-0772	OIL SEAL	2		
8	126-7136	OUTPUT PLANET CARRIER ASSEMBLY-SEE PAGE 16	1		
19	126-2860	SECONDARY PLANET CARRIER ASSEMBLY-SEE PG. 16	1		
38	148-8353	ELBOW, 45,-6 ORB TO-6 ORFS-DRUM CLUTCH PORT	1		
39	169-4018	HOSE,-6 ORFS, 34 IN. (864MM) DRUM CLUTCH RELEASE	1		
43	8C-3232	RETAINING RING	1		

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AKA-SEBP3485

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