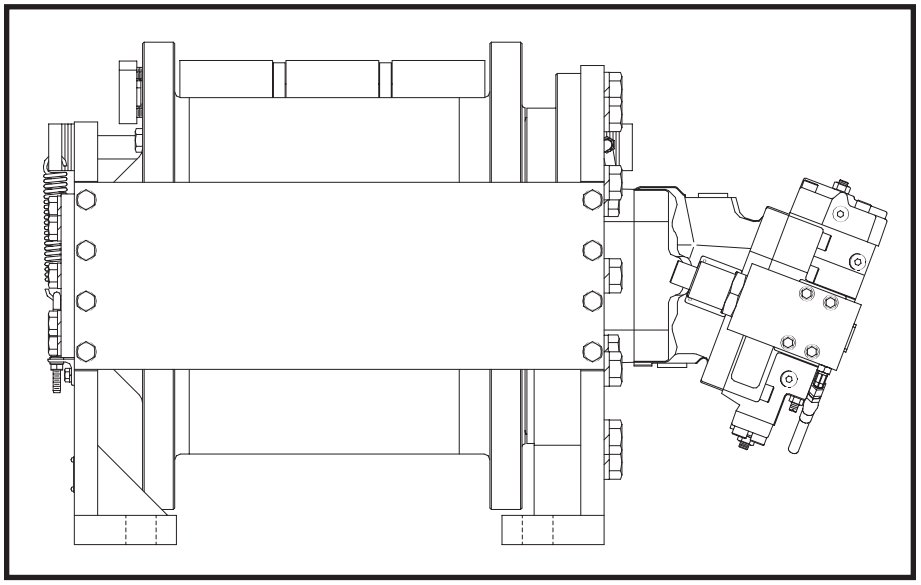
BRADEN®

RW300A

MATERIAL LIST



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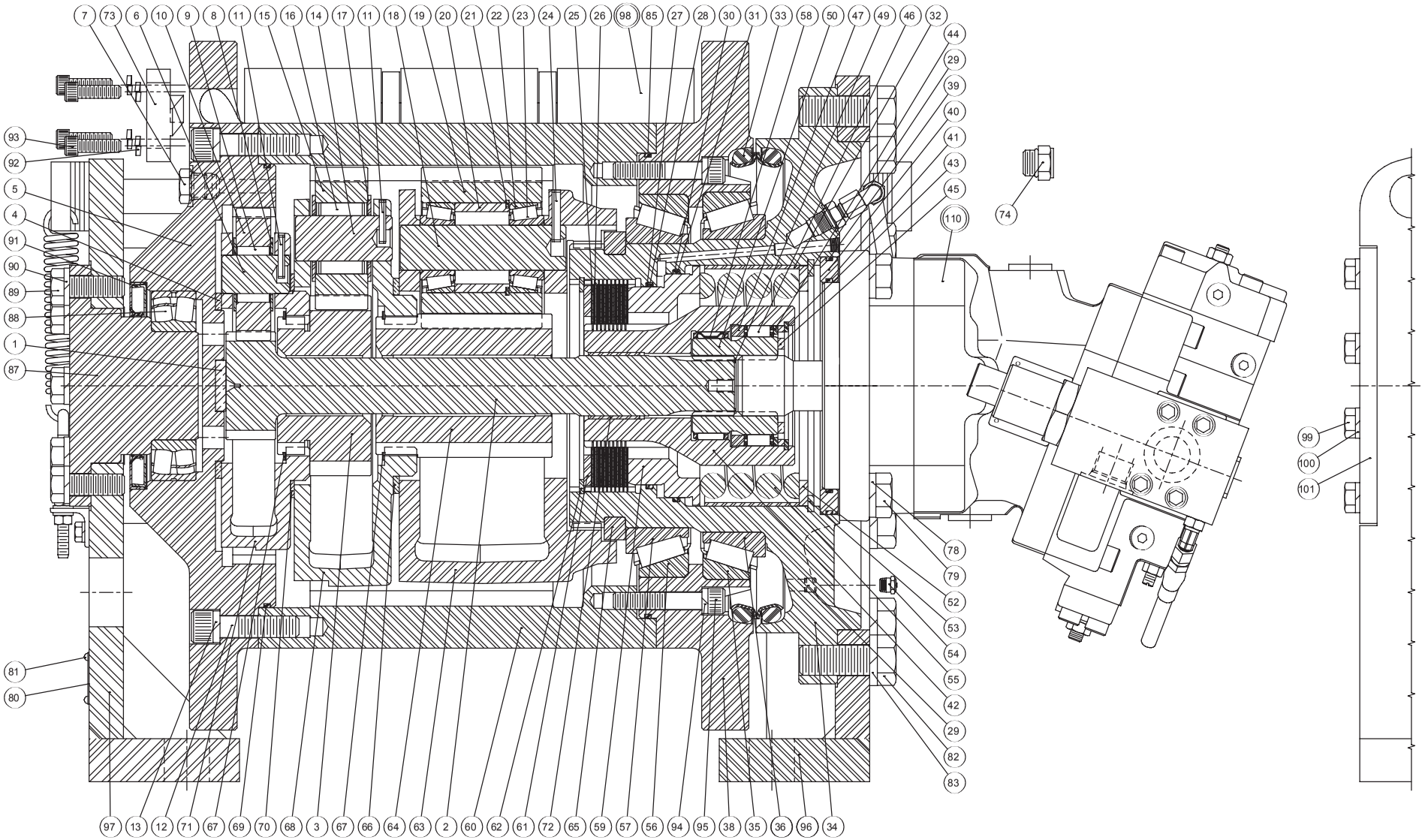
PACCAR Winch Inc.
800 E. Dallas Street
Broken Arrow, OK 74012
www.paccarwinch.com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81 80
78 79 52 53 54 55 42 29 82 83
97 13 12 71 67 69 70 68 3 67 66 64 63 2 60 62 61 72 65 59 57 56 94 95 38 35 36 96 34
99 100 101

RW300A COMPONENTS (04893 & 05051)

Item	Description	Part No.	Qty.
1	WASHER, THRUST	28726	1
2	GEAR, PRIMARY SUN	27943	1
3	GEAR, SECONDARY SUN	27944	1
4	WASHER, THRUST	28727	1
5	FLANGE,PRIMARY RING	102643	1
6	PIN, PRIMARY PLANET	28731	3
7	PLUG	70117	1
8	WASHER, THRUST	28742	6
9	ROLLER	28859	51
10	GEAR, PRIMARY PLANET	27917	3
11	SPIROL PIN	24582	6
12	CAPSCREW	22924	16
13	LOCKWASHER,H1-COLLAR	102335	16
14	PIN, SECONDARY PLANET	27923	3
15	GEAR, SECONDARY PLANET	27919	3
16	ROLLER	27911	42
17	WASHER, THRUST	28729	6
18	PIN, PLANET	27909	3
19	GEAR, FINAL PLANET	27907	3
20	BEARING SPACER	27912	3
21	RING, INTERNAL RETAINING	28738	3
22	BEARING, CUP	27906	6
23	BEARING, CONE	27905	6
24	ROLLPIN	18055	3
25	FRICTION DISC	27649	9
26	BRAKE DISC	24490	9
27	BACK-UP RING	25643	1
28	O-RING	24981	1
29	PIPE PLUG	22374	3
30	O-RING	22721	1
31	BACK-UP, O-RING	28741	1
32	PISTON STOP	28737	1
33	SEAL	27910	1
34	SUPPORT, MOTOR	101702	1
35	BEARING, CUP	27856	1
36	BEARING, CONE	27857	1
38	FLANGE,BEARING CARRIER	102642	1
39	O-RING	22357	1
40	ADAPTER, MOTOR	28739	1
41	O-RING	10052	1
42	BRAKE RACE, OUTER	27927	1
43	RING, INTERNAL RETAINING	28735	1
44	SPACER	28715	1
45	SPACER	27929	1
46	51729 ASSY-SPRAG	72591	1
47	SPACER	28716	1
49	RING, INTERNAL RETAINING	28734	1
50	BRAKE RACE, INNER	27928	1
52	SPRING, STOP	27951	1
53	RING, INTERNAL RETAINING	27925	1
54	RELIEF VALVE	27461	1
55	SPRING	108538	1
56	BEARING, CUP	27854	1
57	BEARING, CONE	27855	1
58	BEARING, ROLLER	28733	1
59	PISTON	27826	1
60	GEAR,RING	102644	1
61	RETAINER, BRAKE	29386	1
62	RING, INTERNAL RETAINING	27924	1
63	CARRIER, FINAL PLANET	27904	1
64	GEAR, FINAL SUN	27942	1
65	RING, SPLIT	27839	1
66	WASHER, THRUST	28730	1
67	RING, EXTERNAL RETAINING	28736	2
68	CARRIER, SECONDARY PLANET	27933	1
69	O-RING	72801	1

Item	Description	Part No.	Qty.
70	WASHER, THRUST	28728	1
71	CARRIER, PRIMARY PLANET	27916	1
72	BEARING	28920	1
73	ANCHOR,CABLE	102670	1
74	SIGHT GAUGE	26705	1
78	LOCKWASHER	13435	4
79	CAPSCREW	70691	4
80	NAMEPLATE	76381	1
81	DRIVE SCREW	11842	4
82	CAPSCREW	70528	12
83	LOCKWASHER	13447	12
85	O-RING	72112	1
87	SUPPORT,BEARING	102645	1
88	SPH ROLLER BRG	102677	1
89	CAPSCREW	22362	8
90	LOCKWASHER	11028	8
91	OILSEAL	101995	1
92	LOCKWASHER	24786	4
93	CAPSCREW	13827	4
94	LOCKWASHER 1/2 HI COLLAR	29468	16
95	CAPSCREW	102706	16
96	SIDE PLATE,MOTOR	102649	1
97	SIDE PLATE,SUPPORT	102650	1
99	CAPSCREW (1/2 X 1-1/2 G8 SPECIAL)	24130	16
100	LOCKWASHER (1/2)	11026	16
101	TIE PLATE	102667	2

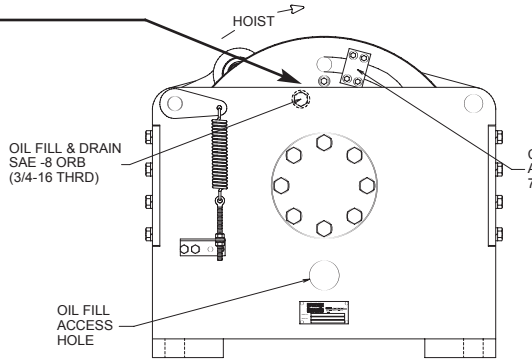
110	**HYDRAULIC MOTOR SUB-ASSEMBLY** (NOT ALL MOTOR SUB-ASSEMBLY PARTS ARE SHOWN)		
111	MOTOR, HYDRAULIC (05051 WINCH)	103459	1
	MOTOR, HYDRAULIC (04893 WINCH)	103496	
112	BRAKE VALVE	101532	1
113	MANIFOLD	28964	1
114	O-RING	25366	1
115	CAPSCREW (7/16 NC X 1-1/2 SOC HD)	21135	4
116	CAPSCREW (7/16 NC X 3-3/4 SOC HD)	101150	4
117	HOSE ASSEMBLY (-4 JIC X 20 IN.)	25952	1
118	ELBOW (45° ORB TO JIC -4/-4)	100265	2
119	ADAPTER (JIC TO ORB -4/-4)	25864	1
120	SWIVEL NUT ELBOW (90°)	26140	1
121	HOSE ASSEMBLY (-4 JIC X 14 IN.)	25935	1
122	ADAPTER (JIC TO ORB -4/-6)	31284	1
123	PLUG (-4 ORB)	69325	1

98	**TENSION ROLLER GROUP** (04893 WINCH ONLY) (NOT ALL PARTS ARE SHOWN)	63137	1
1	TENSION ROLLER ARM	101875	2
2	TENSION SPRING	101879	1
3	TENSION ROLLER SHAFT	101876	1
4	TENSION ARM SHAFT	102684	1
5	SETSCREW	101894	2
6	WASHER (1 INCH)	40162	8
7	ROLLER BUSHING	101730	2
8	SPRING ANCHOR	101893	1
9	ROLLER ROD END	101726	1
10	HEX NUT (5/16)	69644	2
11	LOCKWASHER (5/16)	11024	4
12	CAPSCREW (5/16 NC X 3/4 G5)	11763	2
13	ROLLPIN	14055	3
14	RETAINING RING	12035	2
15	THRUST WASHER	11894	2
16	ROLLER	101873	3
17	ROLLPIN	11836	2
18	LEVER ARM	101878	1
19	COLLAR	102687	1

WINCH MODEL NUMBER

WINCH SERIAL NUMBER

The winch model number and serial number are stamped into the top of the support side end plate, as shown. Both of these numbers are extremely important in the shipment of the proper replacement parts. Any inquiry or order should always reference them



Oil Capacity
15 pints (7.1 L)

TO ORDER PARTS:

(1) List model and serial numbers of the winch.
(2) Refer to drawing and select the component(s) needed and note item number(s).
(3) Find item number(s) on material list. List part number, description and quantity for each item ordered.
(4) Refer to Parts Price List and show unit price for each item.

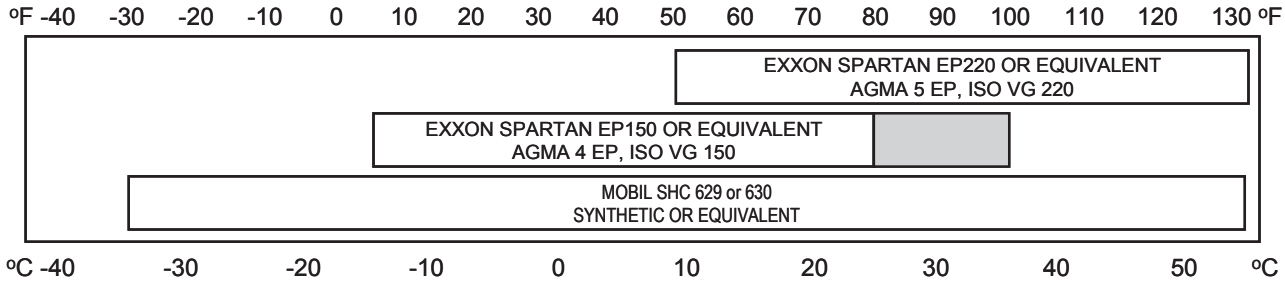
RECOMMENDED PLANETARY GEAR OIL

⚠ WARNING ⚠

Failure to use the proper type and viscosity of planetary gear oil may contribute to intermittent brake clutch slippage which could result in property damage, severe personal injury or death. Some gear lubricants contain large amounts of EP (extreme pressure) and anti-friction additives which may contribute to brake clutch slippage or damage to brake friction discs or seals. Oil viscosity with regard to ambient temperature is also critical to reliable brake clutch operation. Our tests indicate that excessively heavy or thick gear oil may contribute to intermittent brake clutch slippage. Make certain that the gear oil viscosity used in your winch is correct for your prevailing ambient temperature.

If the following lubricant brands are not available in your area, make certain your lubricant vendor supplies you with oil that is equivalent to those products listed below.

PREVAILING AMBIENT TEMPERATURE



NOTE: *SHADED TEMPERATURE RANGE IN THE CHART ABOVE NOT RECOMMENDED FOR SEVERE APPLICATIONS SUCH AS: OFFSHORE CRANES, SUSTAINED FAST DUTY CYCLES OR FREQUENT LIFTING.*

Texaco Meropa 150, previously used as factory fill, may no longer be widely available due to current market conditions. As of mid-year 2002, planetary hoists are factory filled with Exxon Spartan EP150, or equivalent. The chart below relates the Texaco products to 4 currently available oils. Consult your oil supplier for other equivalent oils if required.

Texaco	Exxon	Mobil	Shell	Chevron
Meropa 150	Spartan EP 150	Mobilgear 629	Omala 150	American Industrial Oils 150
Meropa 220	Spartan EP 220	Mobilgear 630	Omala 220	American Industrial Oils 220

9/2002

Unless otherwise specified, it is recommended that the gear oil be changed after the first one hundred (100) hours or two (2) months of machine operation, then every one thousand (1,000) hours or six (6) months, whichever occurs first. The gear oil should also be changed whenever the ambient temperature changes significantly and an oil from a different temperature range would be more appropriate.