

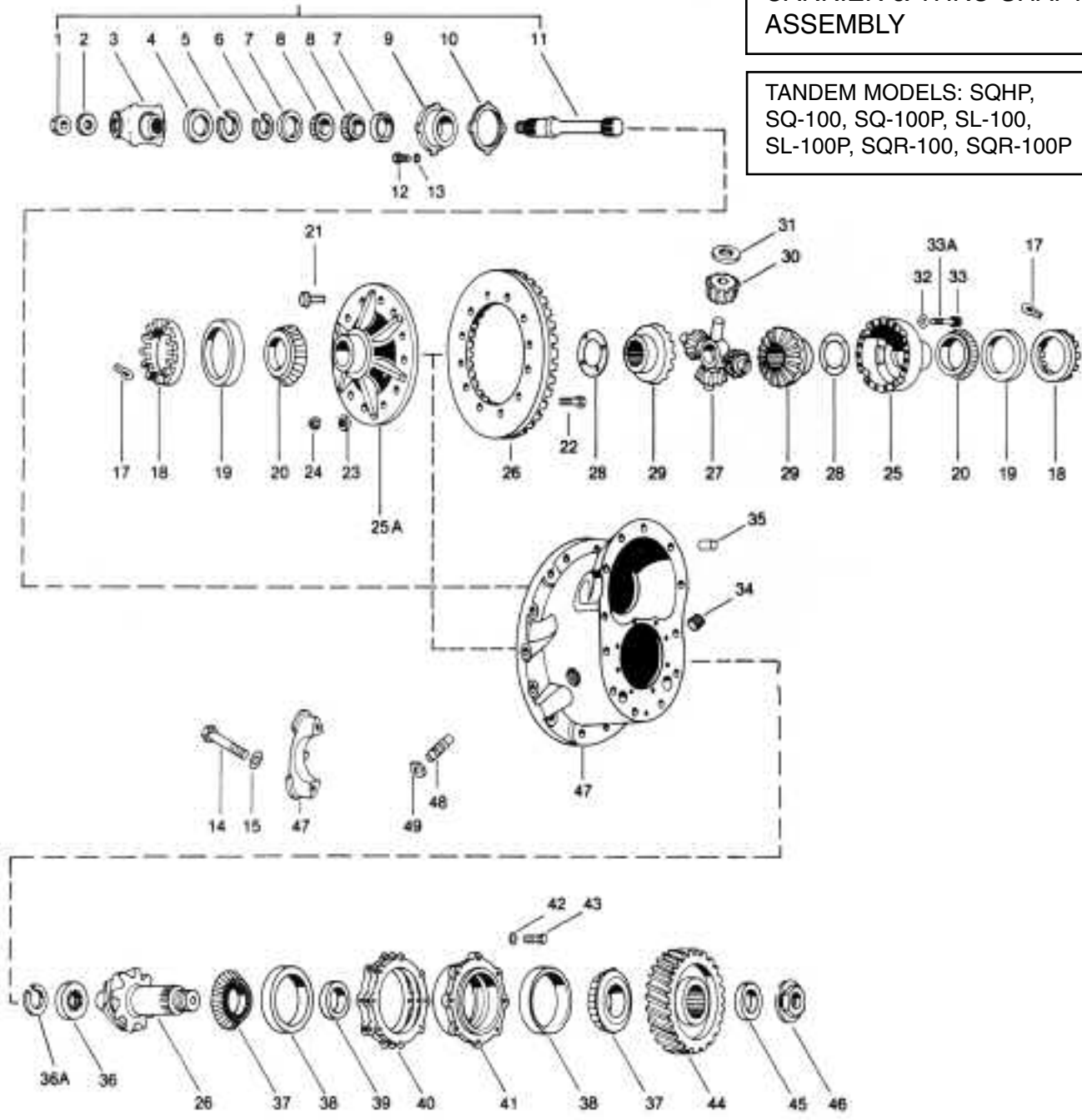
# ROCKWELL®

## SL/SQ100; SQHP FRONT

**NOTE:** ITEMS 1 THRU 13 NOT INCLUDED IN CARRIER ASSY.

**FORWARD DIFFERENTIAL  
CARRIER & THRU-SHAFT  
ASSEMBLY**

**TANDEM MODELS: SQHP,  
SQ-100, SQ-100P, SL-100,  
SL-100P, SQR-100, SQR-100P**



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## SL/SQ100; SQHP FRONT

ITEM	DESCRIPTION	QTY	PART NO.	REMARKS	
	<b>Bearing, Seal &amp; Gasket Kit</b>		RA194FR		
1	Nut - thru-shaft	1	1227Q901		
2	Washer - thru-shaft	1	1229A2653	(QRD/QRP/ QRF)	
3	Yoke - thru-shaft	1		<b>CALL YOUR SALES REP</b>	
4	Oil Seal Assy - thru-shaft bearing cage	1	473274N 4561V	Pre 8/83 Triple lip seal	
5	Snap Ring - thru-shaft	As req.		<b>CALL YOUR SALES REP</b>	
6	Snap Ring - thru-shaft	1	1829A859		
7	Cup - thru-shaft bearing	2	LM603011		
8	Cone - thru-shaft bearing	2	LM603049		
9, 7	Bearing Cage Assy - thru-shaft	1	A3226X596		
10	Gasket - thru-shaft bearing cage	1	2208C445		
11	Thru-shaft	1	3280T5688		
12	Capscrew - thru-shaft bearing cage	4	15X387	(QRD/QRP, QRF)	
13	Washer - thru-shaft bearing cage	4	1229K1597		
14	Capscrew - Diff. bearing cap	4	S21238-1 10X1023	Aluminum cover	
15	Washer - Diff. bearing cap	4	1229V1556		
16	Dowel pin - Diff. bearing cap	2	<b>See Item 47</b>	Not shown	
17	Cotter - Diff. bearing adj. ring	2	1199R2176		
18	Adj. ring - Diff. bearing	2	2214Z208		
19	Cup - Diff. bearing	2	JM716610		
20	Cone - Diff. bearing	2	JM716649		
21	Rivet - Bevel gear to case (opt.)	12	RV71013		
22	Bolt - Bevel gear to case	12	15X1626	Available in KIT 2306	
			QRD, QRP, QRF QHP, QD, QP, LD, LP	Available in KIT 570	
23	Washer - Bevel gear to case	12	1229U1503	Available in KIT 570	
24	Nut - Bevel gear to case	12	NL110-1	Available in KIT 570	
25~, 25A~ 32, 33, 33A	*Differential Case Assy. - Main	1	A28-3235D1174 A26-3235L1156 A19-3235C1173	Standard ratios Medium ratios Fast ratios	
25~, 25A~, 27, 28, 29, 30,31,32,33	*Differential Case and Nest Assy.	1	A18-3235D1174 A34-3235D1174 A44-3235D1174	Standard ratios	
25~, 25A~, 27, 28, 29, 30,31,32,33	*Differential Case and Nest Assy.	1	A17-3235L1156 A43-3235L1156 A51-3235L1156	Medium ratios	
25~, 25A~, 27, 28, 29, 30,31,32,33	*Differential Case and Nest Assy.	1	A13-3235C1173 A33-3235C1173 A43-3235C1173	Fast ratios	
26~	*Drive gear & pinion assy.	1	<b>See Page 113</b>		
27	Spider-diff.	1	3278S305		
28	Thrust washer - Diff. side gear	2	1229T1034		
29	Side gear - main differential	2	2234C783 2234D966 2234F1046	2.10" - 41 Spline 2.00" - 39 Spline 2.10" - 41 Spline	
30	Pinion diff.	4	2233U151 2233J1024		
31	Thrust Washer - Diff. pinion	4	1229R1032		
32	Washer - Diff. case	16	1229C1511		
33	Capscrew - Diff. case	16	S2826P-1		
33A	Thread locking liquid/diff. case	1	2297C3747	.34 oz. tube - <b>See NOTE on Page 112</b>	
34	Plug-filler	1	P212		
35	Dowel-helical gear cover to cover	2	1246M455		
36	Spigot bearing - drive pinion	1	RU1570UM		
36A	Lock ring - drive pinion	1	1229A1301		
37	Cone - drive pinion bearing	2	72212C		
38	Cup - drive pinion bearing	2	72487		
39	Shim spacer - drive pinion	As req.		<b>CALL YOUR SALES REP</b>	
40	Shim - Pinion forward bearing cage	.003 .005 .010	3 4 1	2203A6319 2203B6320 2203C6321	Available in KIT 1500

~ = Not serviced separately.

\* = Specify ratios. When changing ratios from standard to medium or fast, you must change differential

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## SL/SQ100, SQHP FRONT (Cont'd)

ITEM	DESCRIPTION	QTY	PART NO.	REMARKS
41, 38	Drive pinion cage & bearing	1	A3226R564	
	Cup assembly		A3226U749	Aluminum carrier
42	Washer - drive pinion bearing cage	7	1229C1511	
		8		Aluminum carrier
43	Capscrew - drive pinion bearing cage	7	S2812-2	
		8	15X1558	Aluminum carrier
44	Gear - helical driven	1	3892S3945	
45	Washer - drive pinion	1	1229N1730	
46	Nut-drive pinion	1	1227N898	
47, 14,	Diff. carrier & cap assy.	1	A2-3200R1032	
15, 16	Use with KIT 533 (Silastic)		A2-3200L1078	Aluminum carrier
47A	Adhesive - bearing cup	1	2297T4180	Not shown, 2-.5 cc tubes (1 tube per bearing)
48	Screw - thrust block adj.	1	15X1025	
49	Nut-drive gear thrust block screw	1	13X41	
50	Cone - Input shaft bearing cage	1	JM511946	
51	Cup - Input shaft bearing cage	1	JM511910	
52	Shim	1	2203R6518 2203S6519 2203T6520	Available in KIT 1500
53, 51	Input shaft bearing cage assy.	1	A3226M585	
54	Washer - Input shaft bearing cage	6	1229E1513	
55	Capscrew - Input shaft bearing cage	6	S2711-1	
56	Oil Seal - Input shaft	1	476023N 100495	Pre 8/83 Trip lip seal
57	Deflector - yoke	1	DEFR50-4	
58, 57	Input shaft yoke assy.	1		<b>CALL YOUR SALES REP</b>
59	Washer - Input shaft	1	1229T1736	
60	Nut - Input shaft	1	1227R902	
61	Washer - helical gear cover to carrier	12	1229C1511	
62	Capscrew - helical gear cover to cover	12 2 10	S2812-2 S2812-2 15X1558	Aluminum carrier
63	Gasket - helical gear cover to carrier	1	1199T3842	(Silastic)
64	Cover - helical gear	1	3280U8081 KIT 2268	After 8/83 Prior to 8/83
64A	Cover - helical gear	1	3266H970 KIT 2269	After 8/83 Prior to 8/83
64B	Tube - helical gear cover	1	2297V2284	QHP, LP/QP-100 Not shown - old style
64C	Plug - helical gear cover - Welch®	1	PW214	Not shown - old style
65	Plug - helical gear cover drain	1	P26	
66	Spring - push rod	1	2258U411	
67	Push rod	1	2244E83 2297X2494	After 8/83 Old style - Prior to 8/83
68, 69	Air shaft chamber assy.	1	A1-3261V308	Includes attaching hardware <b>(Item No. 20) SEE KIT 2266</b>
69	Capscrew - air shift chamber assy.	4	10X1334	Includes attaching hardware <b>(Item No. 20) SEE KIT 2266</b>
70, 71~	Shaft assy - pump drive	1	A1-2297B4240	<b>SEE KIT 1588</b>
72	Snap ring - pump shaft	1	1229G2763	Used with QHP, LP/QP-100 only.
73	Gear - pump drive	1	3892Z4368	Used with QHP, LP/QP-100 only.
74	Gear - pump driven	1	3892A4369	Used with QHP, LP/QP-100 only.
75	Shaft - pump idler	1	1199R3346	Used with QHP, LP/QP-100 only.
76, 79, 80, 81	Relief Valve pump cover assy.	1	A3266P510	Used with QHP, LP/QP-100 only.
77	Washer - pump cover	4	1229E1669	Used with QHP, LP/QP-100 only.
78	Capscrew - pump cover	2	S256-1	Used with QHP, LP/QP-100 only.
79	Ball-relief valve	1	1898E57	Used with QHP, LP/QP-100 only.
80	Spring-relief valve	1	2258A521	Used with QHP, LP/QP-100 only.
81	Plug-relief valve assy. with o-ring	1	A1199V3402	Used with QHP, LP/QP-100 only.
82	Adapter-filter	1	2297E2293	Used with QHP, LP/QP-100 only.
83	Washer-filter adapter	2	1229E1669	Used with QHP, LP/QP-100 only.
84	Capscrew-filter adapter	2	S2510-1	Used with QHP, LP/QP-100 only.

~ = Not serviced separately.

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# ROCKWELL®

## SL/SQ100, SQHP FRONT (Cont'd)

ITEM	DESCRIPTION	QTY	PART NO.	REMARKS
85	Filter-oil	1	3280V5040	Used with QHP, LP/QP-100 only.
86	Shield-oil filter	1	3280V6964	Used with QHP, LP/QP-100 only.
86A	Washer	4	1229E1669	Used with QHP, LP/QP-100 only.
87	Locknut-pump shield	2	NL25-1	
88	Stud-pump shield & pump cover	2	4X1707	
89	Cup - Input shaft rear bearing	1	JLM710910	
90	Cone - Input shaft rear bearing	1	JLM710949C	2234E1019 & JLM710949C available as A2234E1019 assy.
91	Differential side gear	1	2234E1019 MPS3344 MPS3345	2234E1019 & JLM710949C available as A2234E1019 assy. LD/QD-100 - Prior to 12/85 QHP, LP/QP-100 - Prior to 12/85
92A	Capscrew - Inter-axle diff.	8	S2524-1	Not shown. Available as KIT 1590
92B	Washer - Inter-axle diff.	16	1229E1669	Not shown. Available as KIT 1590
92C	Nut - Inter-axle diff.	8	NL25-1	Not shown. Available as KIT 1590
92D	Thread locking liquid/diff. case	1	2297C3747	.34 oz. tube - <b>SEE NOTE below.</b>
92A, 92B, 92C, 93, 94, 95, 96	Inter-axle diff. & nest assy. 2.00" - 39 Spline	1	A3235F1800	
92A, 92B, 92C, 93, 94 95, 96	Inter-axle diff. & nest assy. 2.10" - 41 Spline	1	A3-3235F1800 MPS3344 MPS3345	LD/QD-100 - 12/85 & Later QHP, LP/QP-100 - 12/85 & Later
96	Spider - Inter-axle diff. 2.00" - 39 Spline 2.10" - 41 Spline	1	3278H372 3278A1093	Effective 3/84. Effective 2/86 (welded inter-axle diff.)
97	Gear - helical drive	1	3892M4927 3892F4738	Effective 3/84 - Use with 1014-1015 shaft Effective 3/84 - Use with 110 shaft
98	Thrust Washer	1	1229H2764 1229M4069	Effective 3/84 - 2.25" I.D. Not interchangeable with 1229H2764, effective 2/86 Effective 2/86 (welded inter-axle diff.)
99, 99A 59, 60	Input Shaft	1	A1-3297A1015	QHP, LP/QP-100 only. 2.10" - 41 Spline with pump - Effective 12/85
99, 59, 60	Input Shaft 2.00" - 39 Spline 2.10" - 41 Spline Less Pump	1	A3297F110 A1-3297Z1014	LD/QD-100 only. Effective 3/84 LD/QD-100 only. Effective 2/86 (welded inter-axle diff.)
99A	Ball-Input shaft	1	1228K37	QHP, LP/QP-100 only. Not shown. Repl. 1898B70
100	Shift fork	1	A3296T150 3296E57 KIT 2268 KIT 2269	After 8/83 Old style - Prior to 8/83 QHP, LP/QP-100 - Prior to 8/83 LD/QD-100 - Prior to 8/83
101	Clutch collar - Input shaft	1	3280G5519	
102	Stop screw - push rod	1	S1812-1	
103	Locknut - stop screw	1	13X15	

### NOTE: THREAD LOCKING LIQUID/DIFFERENTIAL CASE HALVES

When assembling differential case halves in Rockwell International® axles, a thread locking adhesive should be used. The recommended procedure is as follows:

1. Wipe excess oil and residue from the threaded holes in the case. The holes should be relatively oil-free.
2. If **new bolts** are used, a yellow coating of Dri-Loc™ should appear on the threads. Assemble the case with these coated bolts to the required torque.
3. If the **original bolts** are reused or **regular bolts** without Dri-Loc™ are used, Rockwell® Part No. 2297C3747 should be used as a thread locking adhesive. **Apply the adhesive to the differential case holes only.** Thread the bolts and tighten to the required torque.

**IMPORTANT:** Do not apply Rockwell® Part No. 2297C3747 to Dri-Loc™ coated bolts. Refer to Rockwell® Service.

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# ROCKWELL®

## SL/SQ100 (2" - 39 SPLINE)

PART NUMBER	RATIO		AXLE
A39446-1	FAST	3.42	SL/SQ100 FRONT
A37278-2		3.55	
A37596-2		3.70	
A39170-1		3.73	
A38002-1		3.90	
A38836-1	MEDIUM	4.10	ALL QHP, QD/QP, LD/LP-100 FORWARD - REAR
A37404-1		4.33	
A37530-2		4.44	
A37540-2		4.63	
A37398-1	STANDARD	4.88	QRD RATIOS 3.42 TO 5.86
A37396-2		5.29	
A38824-1		5.86	
A38830-1		6.14	
A38240-1		6.83	
A38834-1		7.17	
A37258-2		7.80	

\* = Non-interchangeable. 3.70 or 3.73 ratios must be the same for both Forward-Rear and Rear-Rear axle ratios. (i.e. 3.73 Forward-Rear and 3.73 Rear-Rear).

\*\* = Available for SQ-100/P and SL-100/P only (with or without pump).

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