



Parts Manual

Model Paper Roll Clamp

Serial Number 60G-RCP-149

cascade[®]
corporation

For Technical Assistance call: 800-227-2233, Fax: 888-329-8207

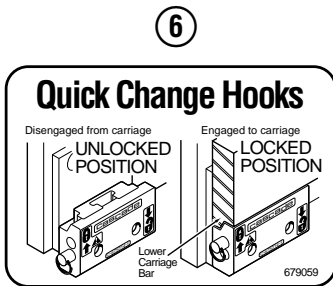
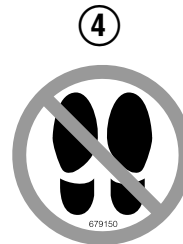
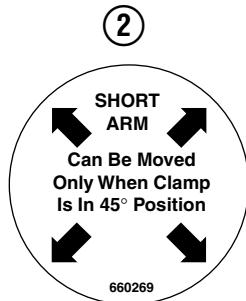
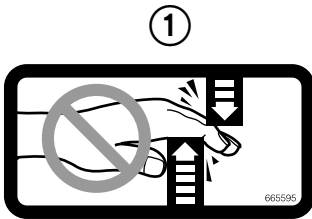
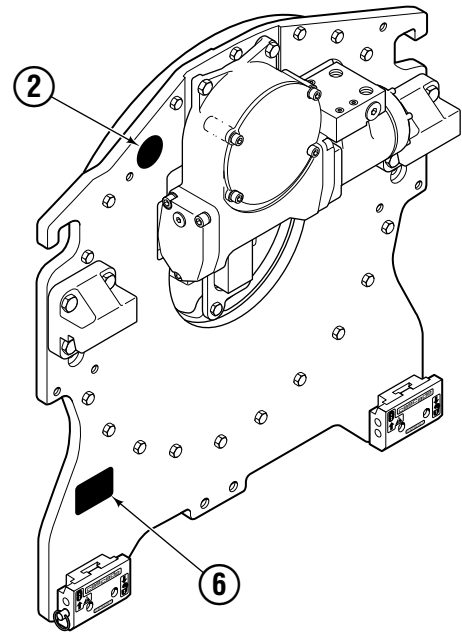
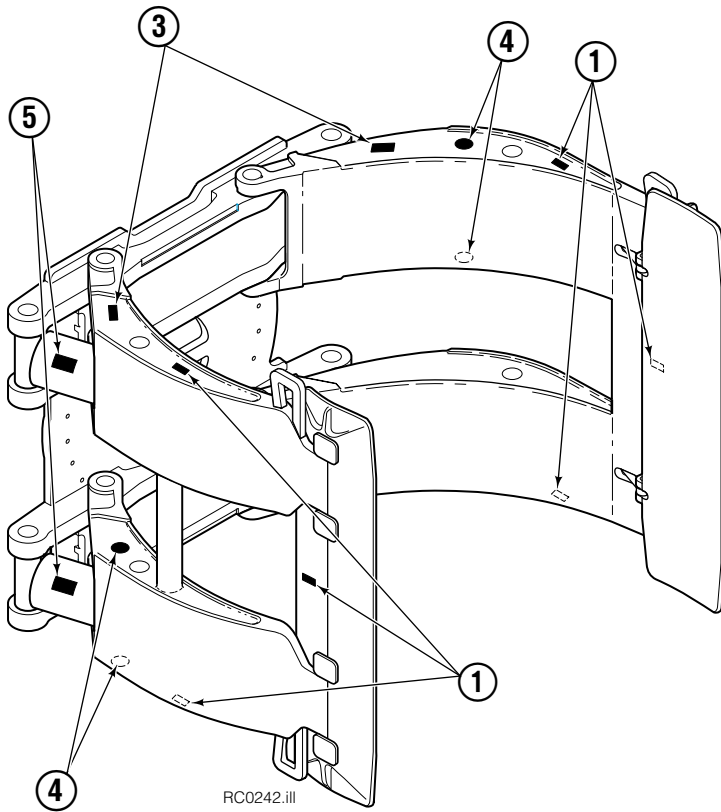
To Order Parts call: 888-227-2233, Fax: 888-329-0234

OR

Write: Cascade Corporation, P.O. Box 20187, Portland, OR 97220

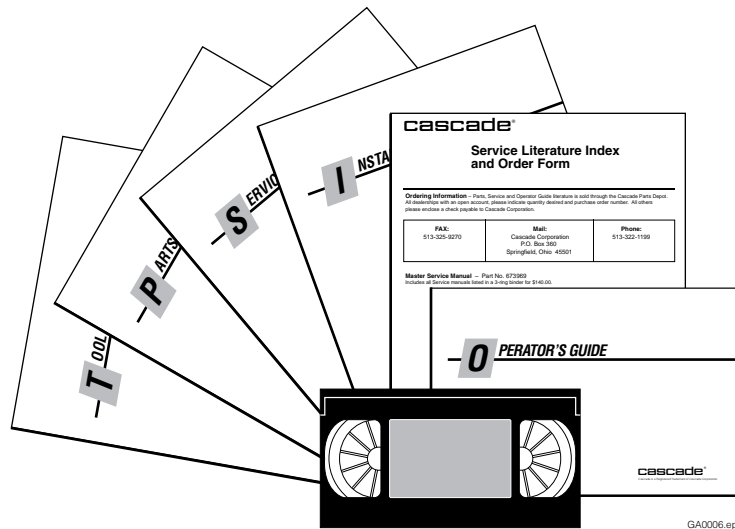
Internet: www.cascorp.com

Decals



60G			
REF	QTY	PART NO.	DESCRIPTION
1	6	665595	No Hand Hold Decal
2	1	660269	Short Arm Rotation Position Decal
3	4	656038	Caution Decal
4	4	679150	No Step Decal
5	4	665677	Trapped Pressure Decal
6	1	679059	Quick-Change Hook Decal

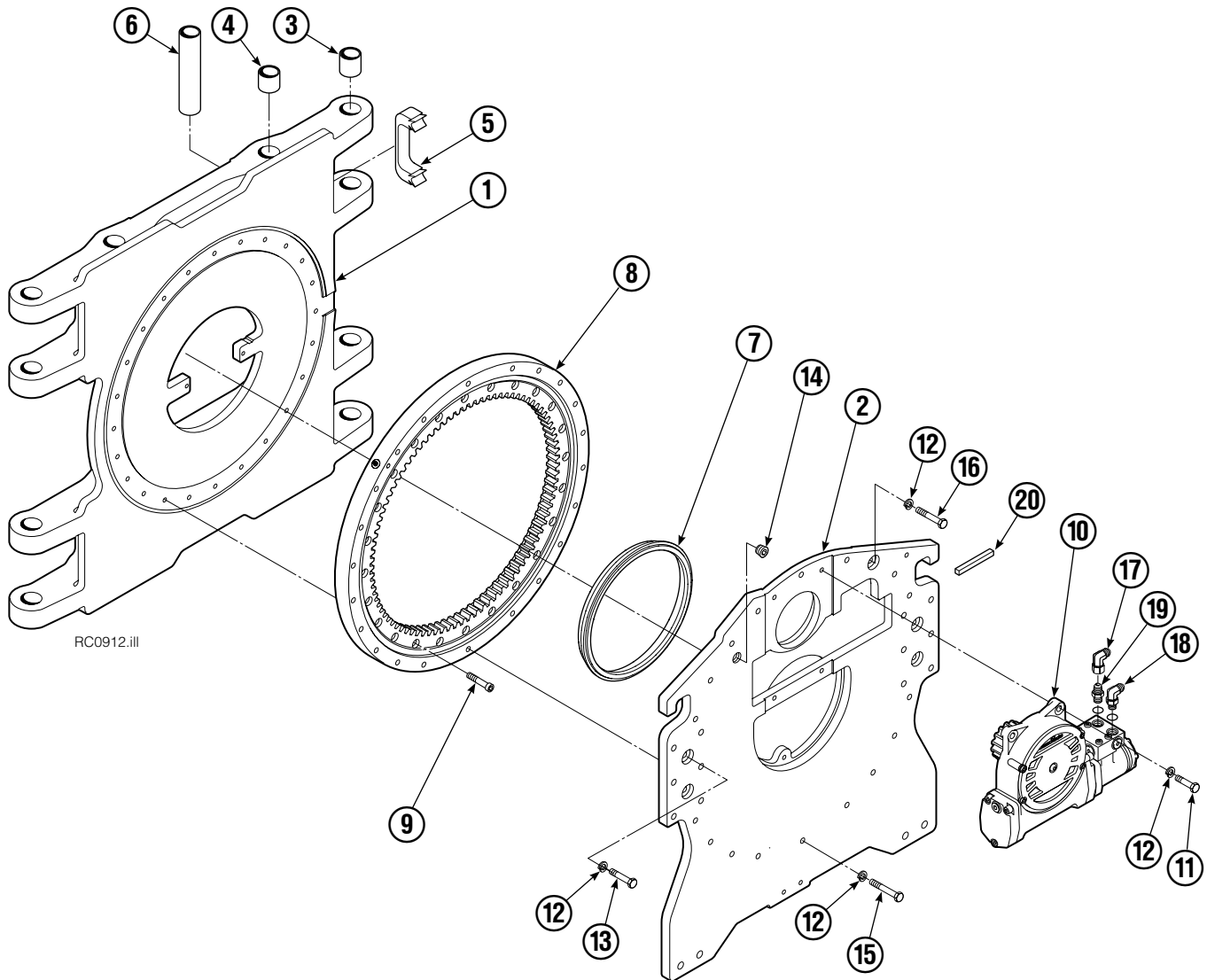
Publications



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60G	
PART NO.	DESCRIPTION
	Parts Manual
213744	Service Manual
210135	Operator's Guide
212420	Installation Instructions - Fixed Frame
677555	Driver Training Video - VHS
678363	Troubleshooting Video - VHS
680664	Servicing Cascade Cylinders - VHS
679929	Tool Catalog
673964	Literature Index Order Form

Frame Group



60G							
REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		213809	Frame Group w/ Stop – 51 in. ▲	10	1	212308	Drive Group – 2.2 c.i. Motor ●
		213764	Baseplate Group	11	4	211689	Capscrew, M12 x 30
1	1	213810	Frame	12	26	683822	Lockwasher, M12
2	1	212938	Baseplate	13	4	206174	Capscrew, M12 x 45
3	8	211718	Bearing	14	1	6605	Fitting, 3/4 in.
4	8	211717	Bearing	15	17	213633	Capscrew, M12 x 55
5	4	211712	Hose Guard	16	1	209684	Capscrew, M12 x 50
6	4	209987	Spacer	17	1	605761	Fitting, 8-8
7	1	209944	Seal	18	1	601250	Fitting, 8-8
8	1	213761	Bearing Assembly	19	1	601377	Fitting, 8-8
9	24	767596	Capscrew, M12 x 40	20	1	669344	Stop Block Kit

▲ Maximum roll handling capacity.

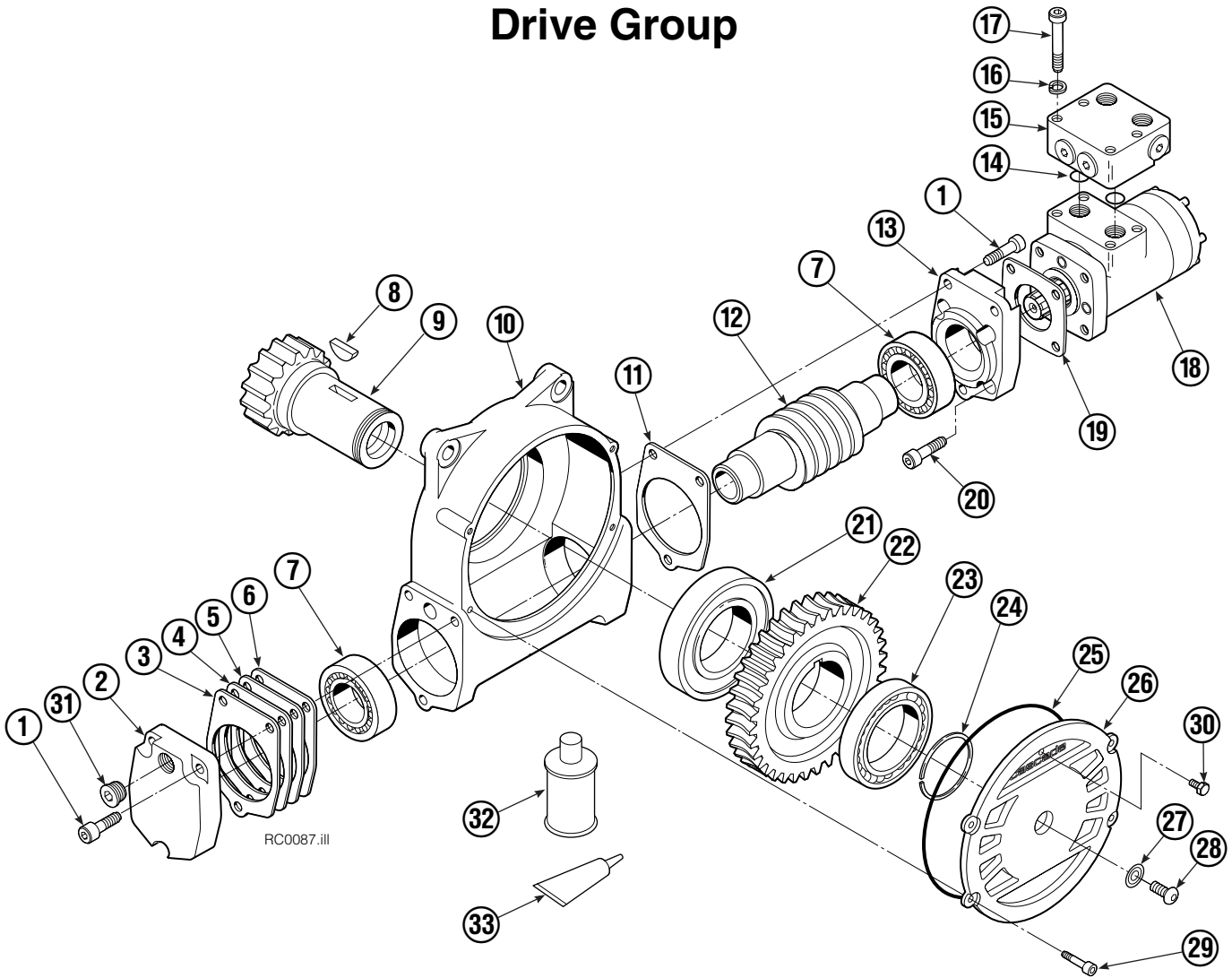
● See Drive Group page for parts breakdown.

Reference: S-4506, S-4188.

Reference: Common Parts Groups 211975, 215015.

Fitting Group 212367.

Drive Group

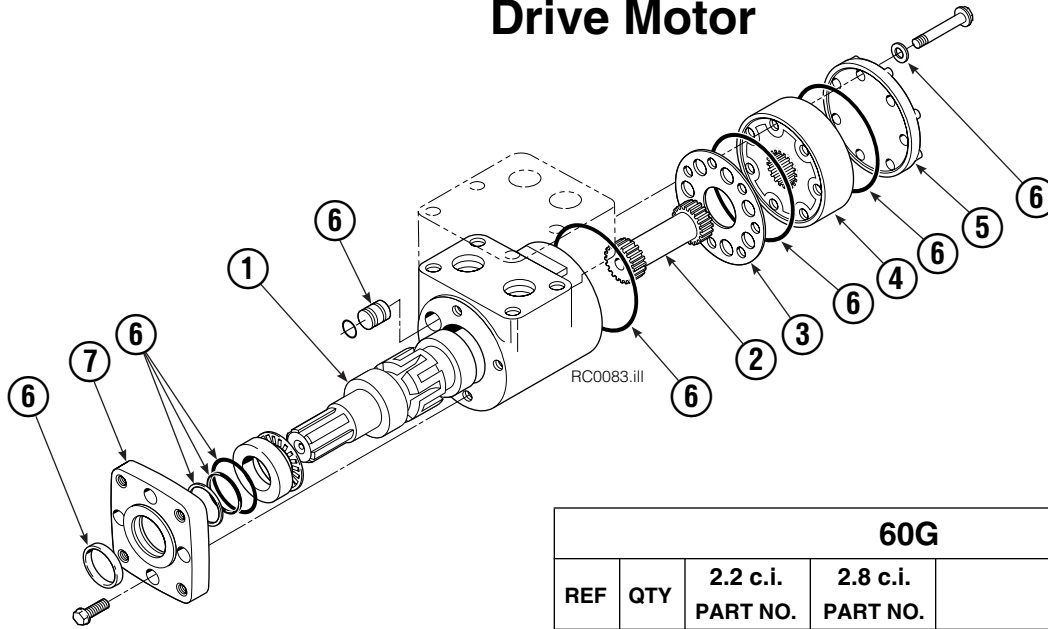


60G							
REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		212308	Drive Group with 2.2 c.i. Motor	19	1	670575	Gasket
		795491	Drive Group with 2.8 c.i. Motor	20	4	4468	Capscrew, 3/8 NC x .75 GR8
1	6	768826	Capscrew, M12 x 25	21	1	670580	Bearing
2	1	795258	Cover	22	1	675609	Worm Gear
3	●	674513	Shim - .005" (blue)	23	1	670581	Bearing
4	●	670574	Shim - .010" (brown)	24	1	7214	Snap Ring
5	●	671757	Shim - .015" (pink)	25	1	204970	Gasket
6	●	671758	Shim - .020" (yellow)	26	1	775552	Cover
7	2	670579	Bearing	27	1	783609	Seal
8	1	670582	Key	28	1	783608	Capscrew, M12 x 16
9	1	670506	Pinion	29	4	775639	Capscrew, M8 x 20
10	1	775551	Housing	30	1	644010	Relief Fitting
11	1	686465	Gasket	31	1	602580	Fitting, 8
12	1	675608	Worm	32	1	656300	Gear Box Lube - 48 oz.
13	1	775553	Adapter	33	1	668184	Sealant
14	2	2705	O-Ring			670578	Shim Service Kit (items 3-6,11,25,33)
15	1	670549	Check Valve			675637	Bearing Service Kit (items 21 & 33)
16	4	6444	Lockwasher			675638	Bearing Service Kit (items 3-7,11,25)
17	4	607059	Capscrew, 5/16 NC x 1.75 GR8			212919	Motor Kit-2.2 (items 11,14,18,19,20,33)
18	1	210139	Drive Motor - 2.2 c.i. ▲			206394	Motor Kit-2.8 (items 11,14,18,19,20,33)
18	1	206392	Drive Motor - 2.8 c.i. ▲				

● Quantity as required.

▲ See Drive Motor page for parts breakdown.

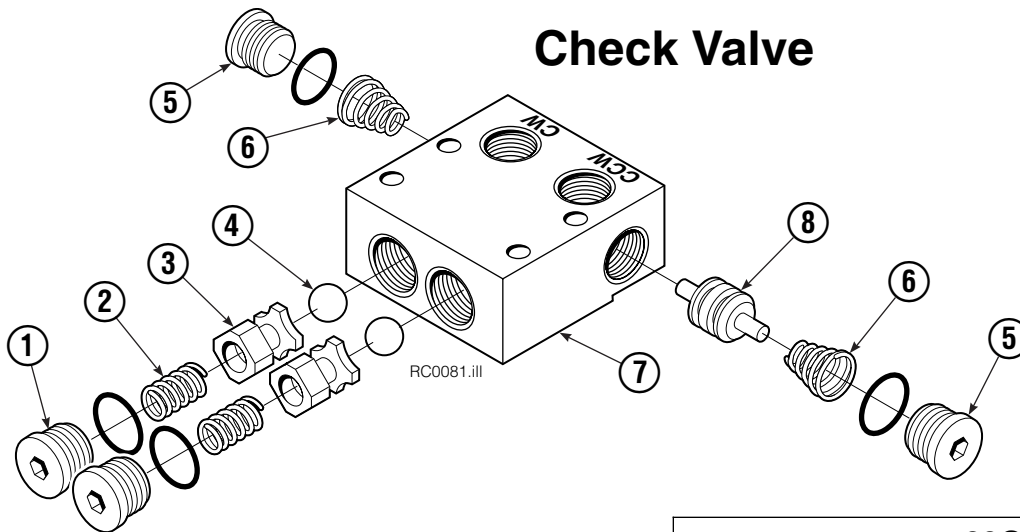
Drive Motor



60G				
REF	QTY	2.2 c.i. PART NO.	2.8 c.i. PART NO.	DESCRIPTION
		210139	206392	Drive Motor
1	1	675478	675478	Shaft
2	1	675477	675477	Drive Link
3	1	211528	675479	Spacer Plate
4	1	210137	675480	Geroler/Gerotor Set
5	1	211527	675482	End Cap
6	1	206405	206405	Service Kit ●
7	1	685090	685090	Flange

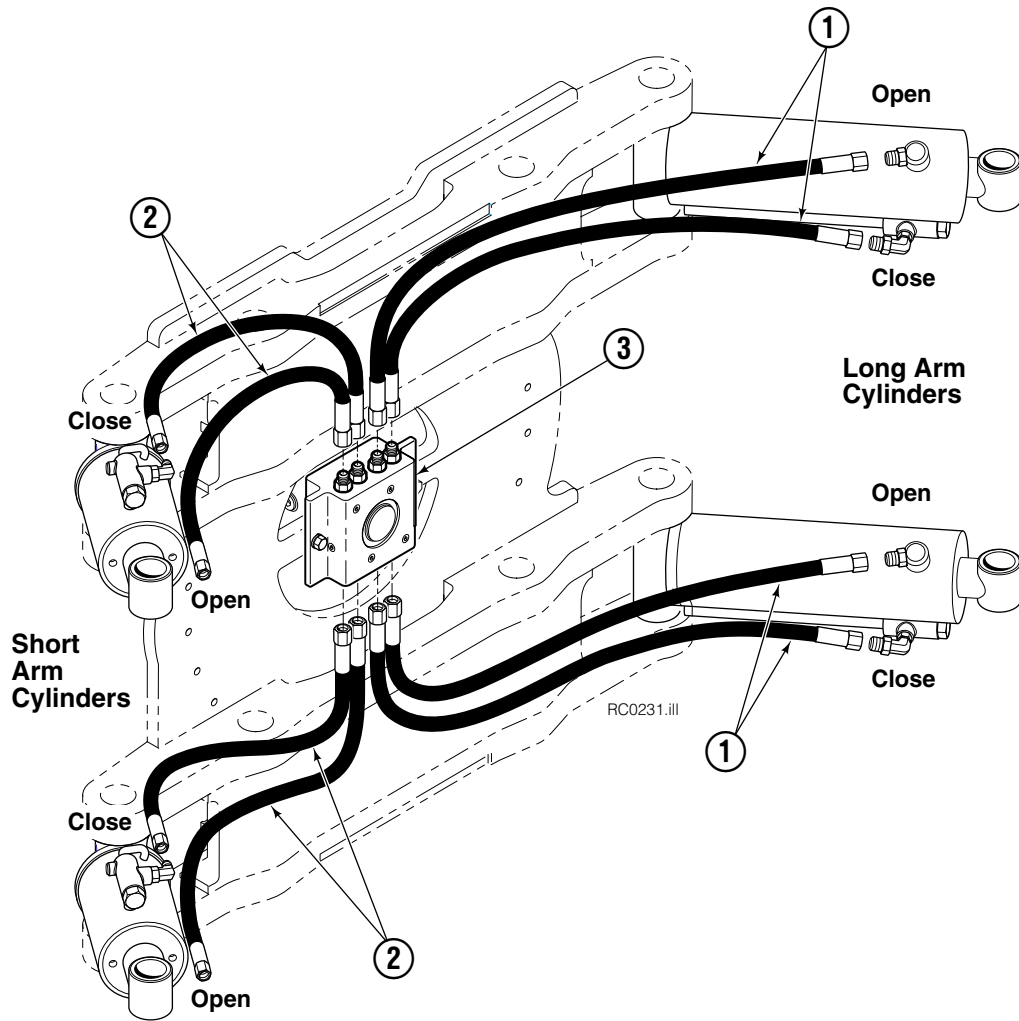
Cascade provides service replacement parts for the listed parts only. Due to cost, if others parts need replacement, the complete Drive Motor should be replaced.

Check Valve



60G			
REF	QTY	PART NO.	DESCRIPTION
		670549	Check Valve Assembly
1	2	609453	Fitting, 10
2	2	670552	Spring
3	2	670551	Guide
4	2	7020	Ball
5	2	602580	Fitting, 8
6	2	673989	Spring
7	1	670550	Body
8	1	670553	Spool

Hosing Group Positioned Short Arm



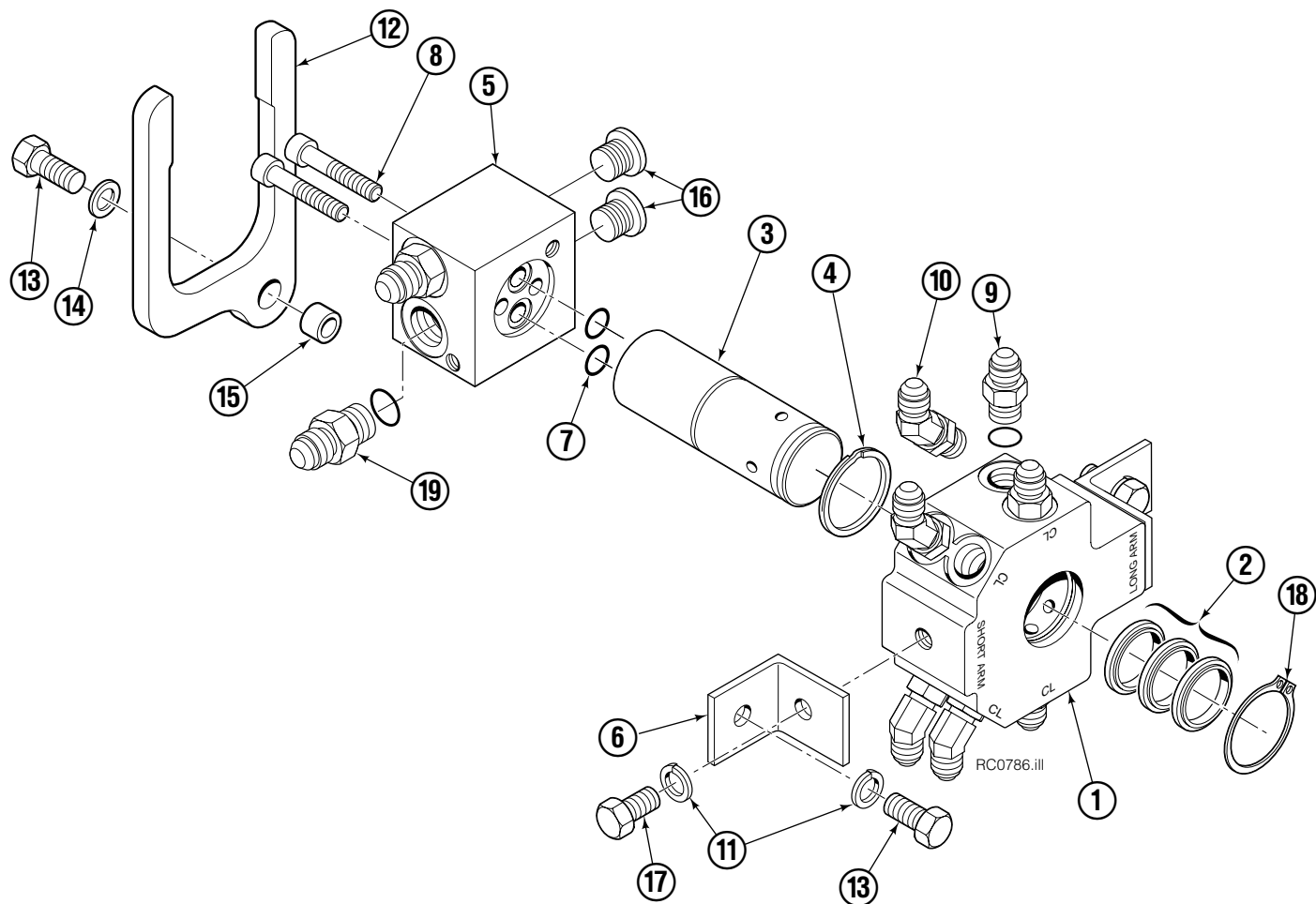
60G			
REF	QTY	51 in. ■ PART NO.	DESCRIPTION
		210010	Hose Group
1	4	210018	Hose
2	4	210019	Hose
3	1	▲	Revolving Connection

■ Maximum roll handling capacity.

▲ See Revolving Connection page for part number.

Reference: S-4192, S-4193.

Revolving Connection

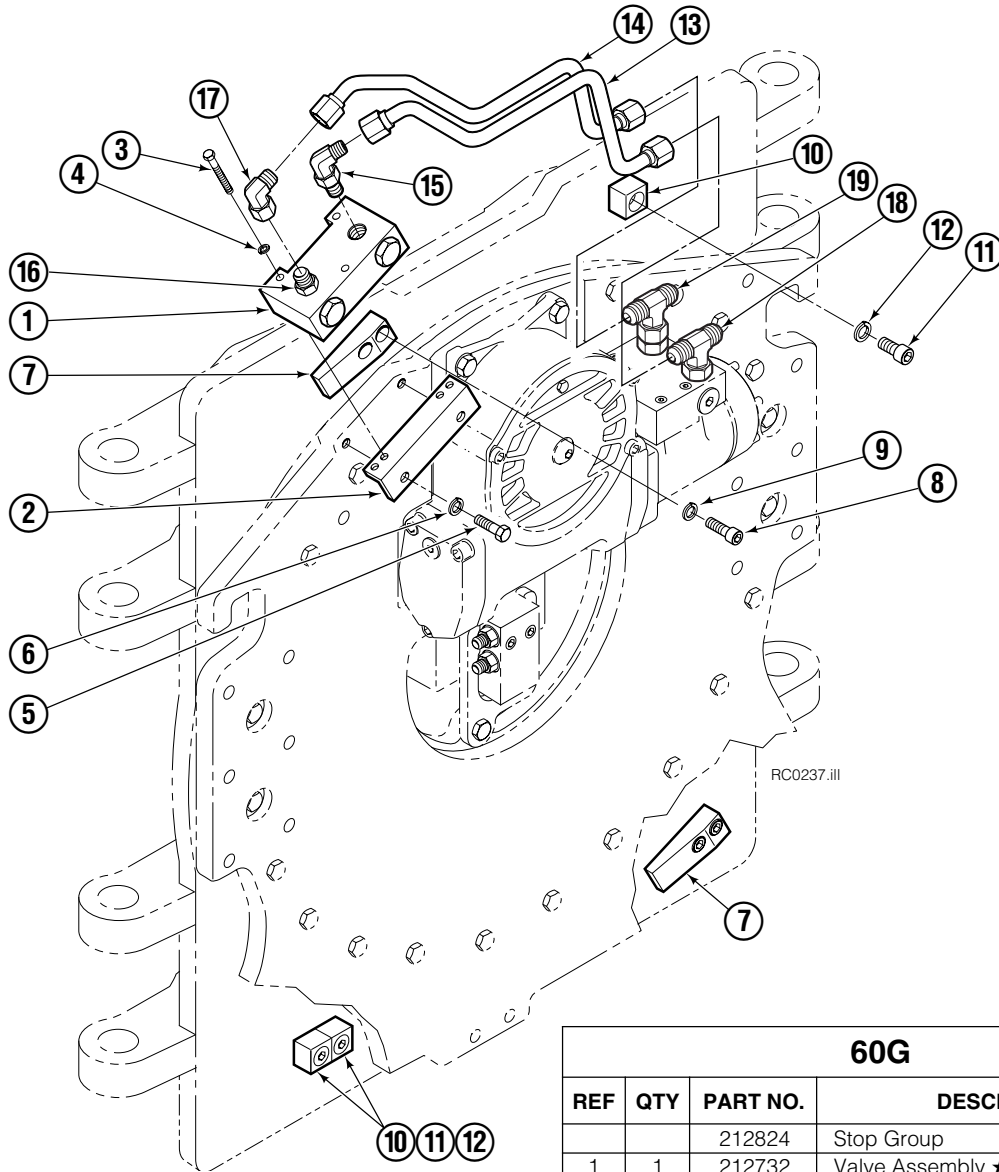


60G			
REF	QTY	PART NO.	DESCRIPTION
		222188	Revolving Connection
1	1	222192	Valve Body
2	3	214649	◆ Seal
3	1	222191	Shaft
4	1	7341	◆ Retaining Ring
5	1	222190	End Block
6	2	222189	Bracket
7	2	564448	◆ O-Ring
8	2	766123	Capscrew, M8 x 50
9	4	604511	Fitting, 6-6
10	4	611302	Fitting, 6-6
11	4	681238	Lockwasher, M10
12	1	211909	End Block Retainer
13	3	215480	Capscrew, M10 x 25
14	1	209021	Washer, M10
15	1	212725	Spacer
16	2	602580	Fitting, 8
17	2	212632	Capscrew, M10 x 20
18	1	3138	◆ Retaining Ring

◆ Included in Service Kit 222223.

Reference: SK-6113.

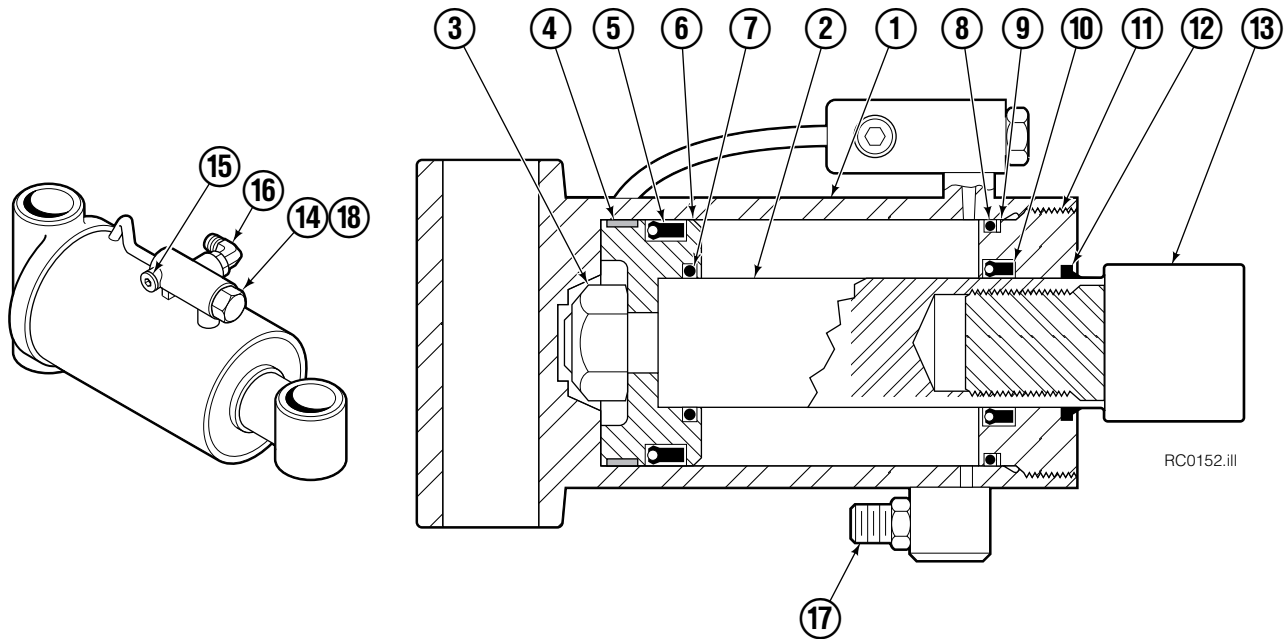
180° Stop Group



60G			
REF	QTY	PART NO.	DESCRIPTION
		212824	Stop Group
1	1	212732	Valve Assembly ★
2	1	212307	Bracket
3	4	768526	Capscrew, M8x1,25x45-8.8
4	4	686119	Lockwasher, M8
5	2	212305	Capscrew, M12x1,75x35-10.9
6	2	681473	Lockwasher, M12
7	2	211972	Cam
8	4	769570	Capscrew, M12x1,75x25-12.9
9	4	678991	Lockwasher, M12
10	3	212931	Stop Block
11	3	775559	Capscrew, M20x2,5x30-12.9
12	3	681467	Lockwasher, M20
13	1	212188	Tube
14	1	212189	Tube
15	1	601250	Fitting, 8-8
16	1	601377	Fitting, 8-8
17	1	605761	Fitting, 8-8
18	1	601249	Fitting, 8-8
19	1	611334	Fitting, 8-8

★ See Stop Valve page for parts breakdown.
Reference: SK-6117.

Cylinders



60G				
REF	QTY	Short Arm	Long Arm	DESCRIPTION
		51 in. ■	51 in. ■	
		PART NO.	PART NO.	
		210125	210129	Cylinder Assembly
1	1	4195-175	4195-350	Shell
2	1	4130-159	4130-340	Rod

■ Maximum roll handling capacity.

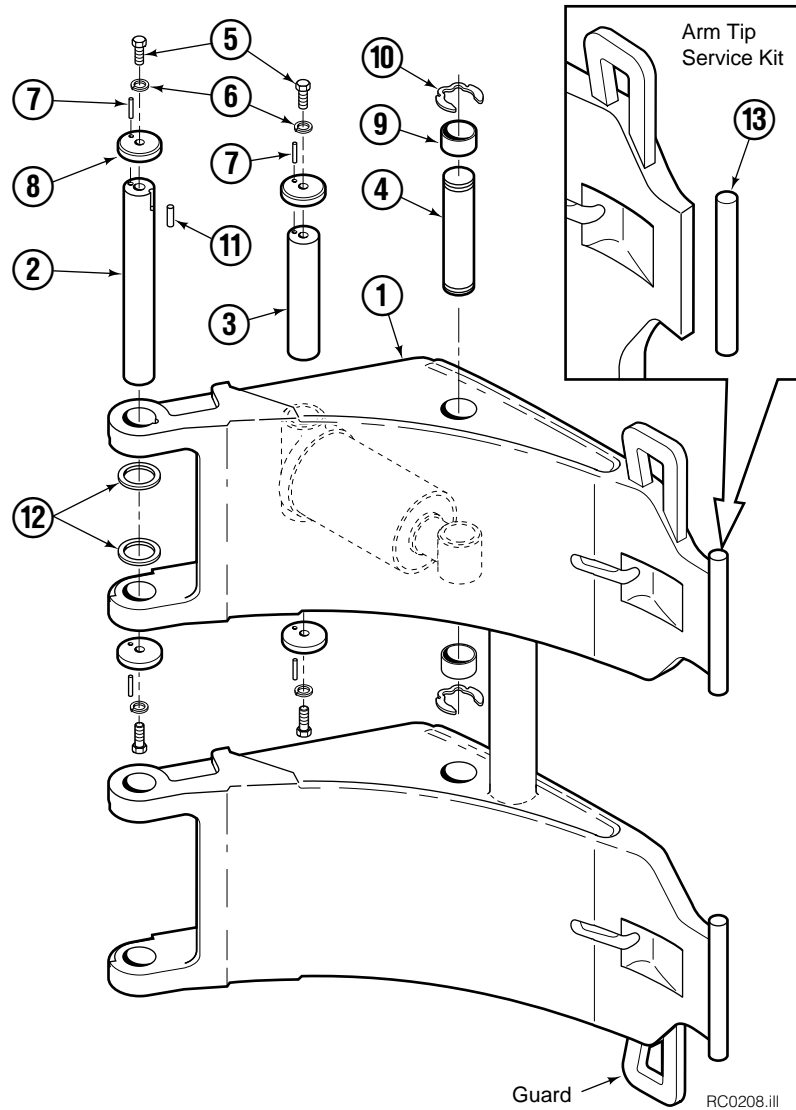
Common Parts

REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
3	1	560997	Nut	12	1	564443	Wiper ▲
4	1	211295	Wear Ring ▲	13	1	209764	Rod Eye
5	1	564902	Seal ▲	14	1	659058	Check Valve
6	1	211292	Piston	15	1	609234	Fitting, 4
7	1	210087	O-Ring ▲	16	1	601676	Fitting, 6-6
8	1	564445	O-Ring ▲	17	1	604511	Fitting, 6-6
9	1	564446	Back-Up Ring ▲	18	1	667516	Check Valve Service Kit
10	1	564442	Seal ▲			210133	Cylinder Service Kit
11	1	209763	Retainer				

▲ Included In Service Kit 210133.

Reference: S-4454, S-4460.

Short Arm



60G			
REF	QTY	51 in. ■	DESCRIPTION
		PART NO.	
		212034	Arm Group w/o Guard
1	1	213316	Arm w/o Guard

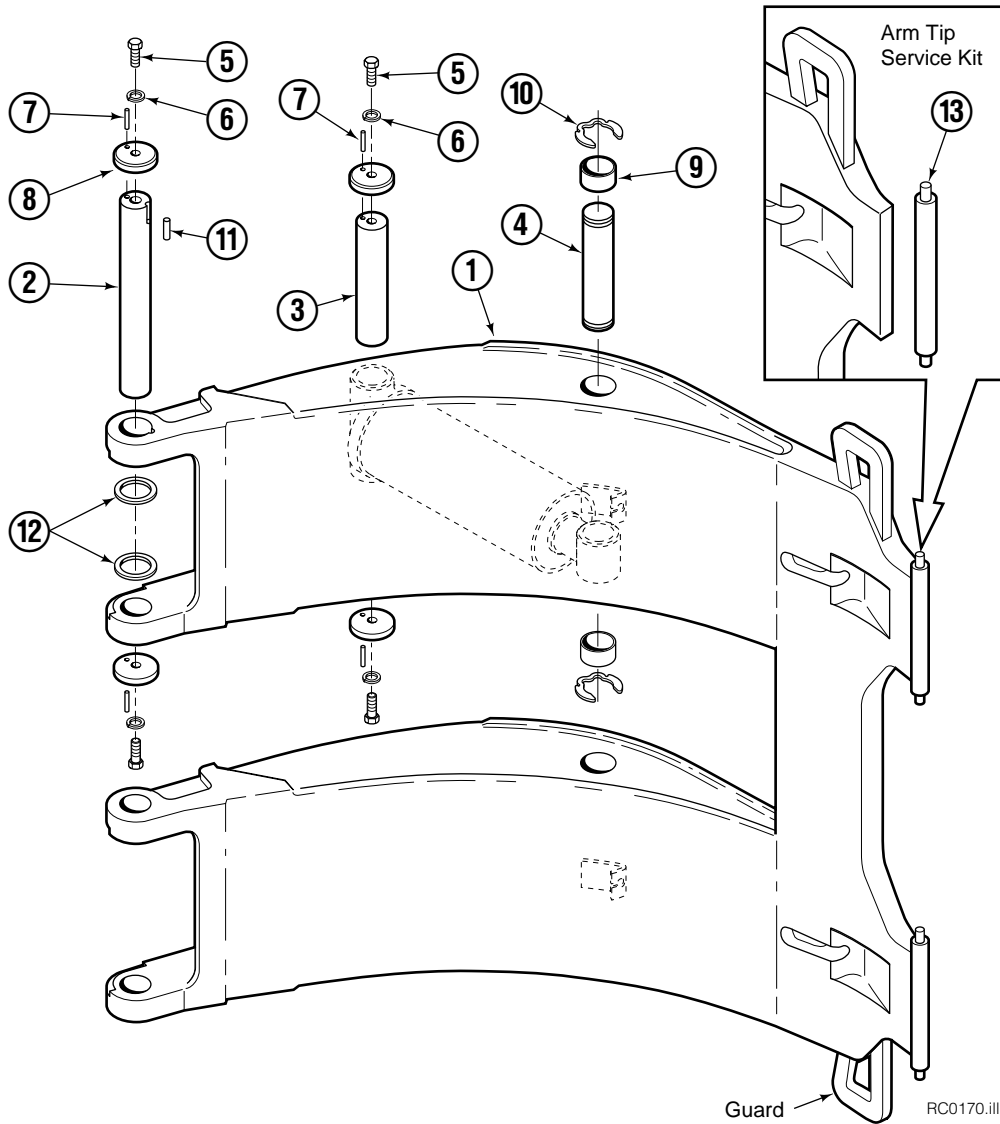
■ Maximum roll handling capacity.

Common Parts

REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		212933	Common Parts Group	8	8	209985	Cap
2	2	209982	Arm Pivot Pin	9	4	210080	Bearing
3	2	209983	Cylinder Pivot Pin	10	4	209986	Retaining Ring
4	2	4175-150	Cylinder Rod Pivot Pin	11	2	212382	Dowel Pin, 8x16 mm
5	8	212632	Capscrew, M10x1.5x20	12	16	209941	Shim - .062 in.
6	8	209021	Washer, M10	13	1	212902	Arm Tip Service Kit
7	8	769009	Roll Pin				

Reference: S-4173.

Long Arm



60G			
REF	QTY	51 in. ■	DESCRIPTION
		PART NO.	
		212409	Arm Group w/o Guard
1	1	213340	Arm w/o Guard

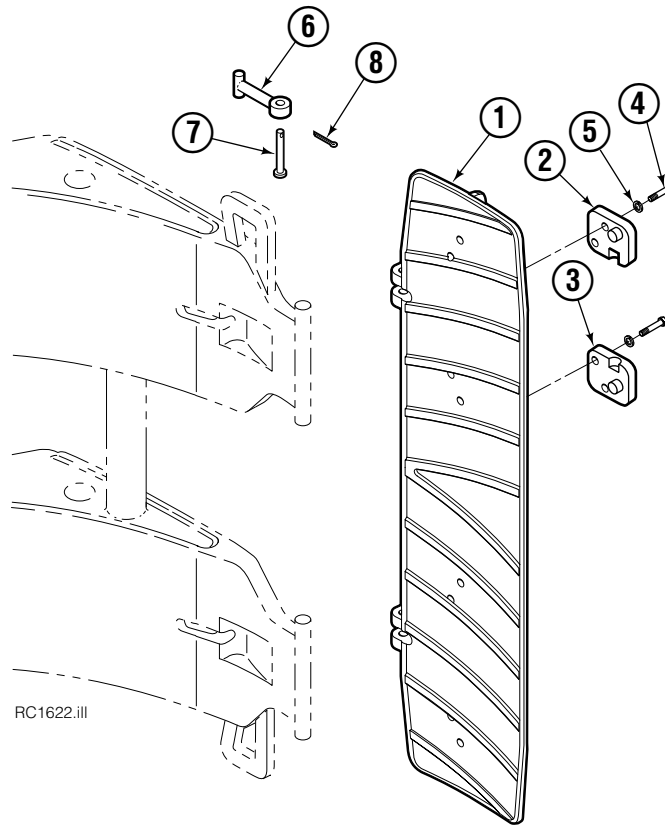
■ Maximum roll handling capacity.

Common Parts

REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		212933	Common Parts Group	8	8	209985	Cap
2	2	209982	Arm Pivot Pin	9	4	210080	Bearing
3	2	209983	Cylinder Pivot Pin	10	4	209986	Retaining Ring
4	2	4175-150	Cylinder Rod Pivot Pin	11	2	212382	Dowel Pin, 8x16 mm
5	8	212632	Capscrew, M10x1.5x20	12	16	209941	Shim - .062 in.
6	8	209021	Washer, M10	13	1	212903	Arm Tip Service Kit
7	8	769009	Roll Pin				

Reference: S-4171.

Pad Group - Short Arm



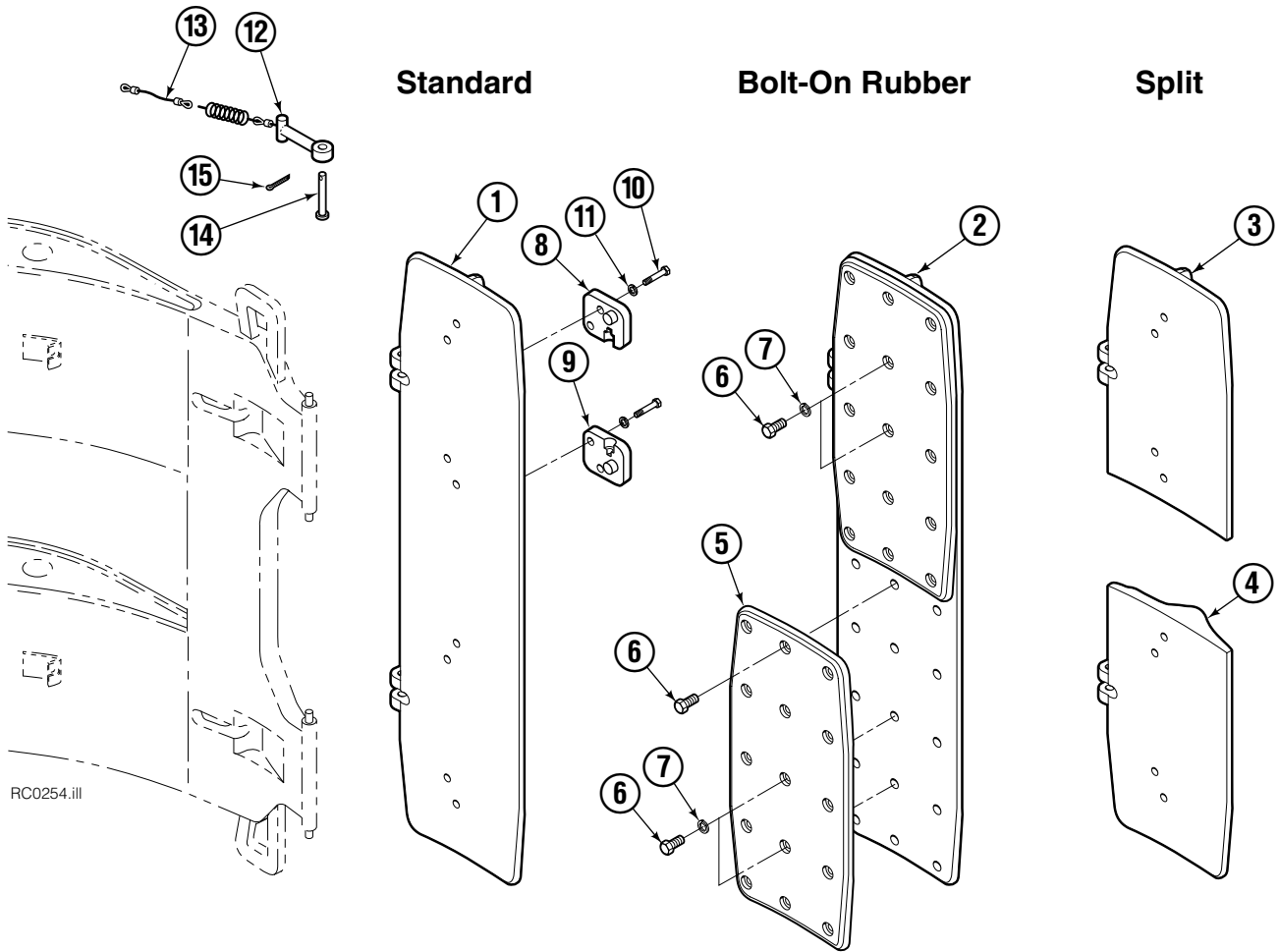
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60G			
REF	QTY	PART NO.	DESCRIPTION
		209877	Standard Pad Group ▲
1	1	209893	Pad, Standard
2	2	209904	Retainer, R.H. ▲
3	2	209905	Retainer, L.H. ▲
4	8	767810	Capscrew, M12
5	8	681473	Lockwasher, M12
6	2	209909	Link
7	2	674265	Clevis Pin
8	2	6525	Cotter Pin

▲ Driver's view, clamp in horizontal position, Short Arm up.

Reference: Common Parts 212935 items 2 - 8. S-4176, S-4177.

Pad Groups – Long Arm



60G			
REF	QTY	51 in. ■	DESCRIPTION
		PART NO.	
		209876	Standard Pad Group
1	1	209893	Pad, Standard

▲ Driver's view, clamp in horizontal position, Long Arm up.

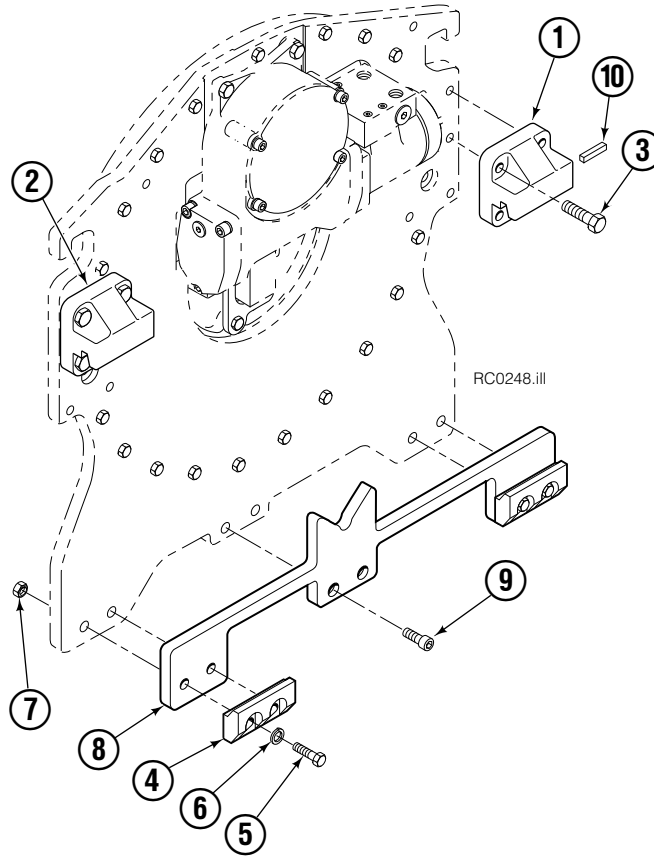
Common Parts

REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		212934	Common Parts Group – Long Arm		2	4182-40	Cable – 51 in. ■
8	2	211997	Retainer, R.H. ▲	13	2	4182-110	Cable – 60 in. ■
9	2	211998	Retainer, L.H. ▲		2	4182-245	Cable – 72 in. ■
10	8	763021	Capscrew, M12	14	2	674265	Clevis Pin
11	8	681473	Lockwasher, M12	15	2	6525	Cotter Pin
12	2	209916	Link Assembly				

▲ Driver's view, clamp in horizontal position, Long Arm up.

Reference: S-4176, S-4177.

Mounting Groups – 2°



60G Bolt-On Mounting			
REF	QTY	ITA III PART NO.	DESCRIPTION
		209926	Mounting Group
1	1	209932	Upper Hook - R.H.
2	1	209933	Upper Hook - L.H.
3	4	779010	Capscrew, M16x2x35-8.8
4	2	675969	Lower Hook
5	4	678997	Capscrew, M16x2x70-8.8
6	4	667225	Washer, .625 in. I.D.
7	4	781534	Nut, M16x2
8	1	209936	Spacer
9	2	212146	Capscrew, M12x1,75x25-8.8
10	1	669344	Stop Kit

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