



Parts Manual

66F Paper Roll Clamps

Serial Numbers 206729 through 206760

Manual Number 207474 R-0

cascade®

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How To Use This Manual

Introduction

This manual illustrates service replacement parts for standard production Cascade 66F Paper Roll Clamps.

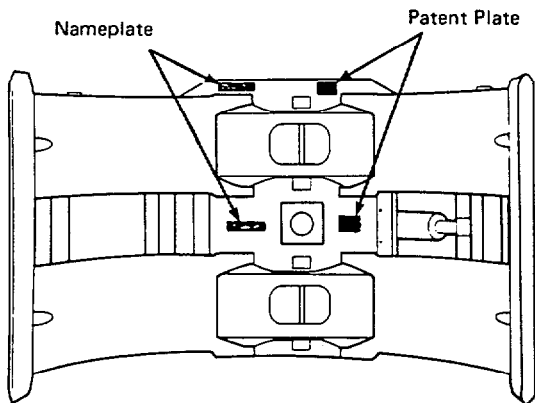
The parts manuals for attachments designed by the Application Engineering Department have an A.E.D. designation on the cover of the manual.

This standard attachment manual is not interchangeable with an A.E.D. manual since it does not reflect the special engineering of an A.E.D. attachment.

To locate a service replacement part for a standard attachment, follow these steps.

1. Locate the Nameplate

The nameplate is attached to the left side of the faceplate, top or center. If the nameplate is missing, all necessary information is stamped into the faceplate at the same location.



2. Note the Serial Number

Record the six-digit Serial Number. See the example.

3. Refer to Serial Number Index

Locate your Serial Number in the Serial Number Index on the following page.

IMPORTANT: DO NOT USE THIS MANUAL TO ORDER PARTS FOR AN A.E.D. ATTACHMENT. Contact Cascade Corporation to obtain the correct parts manual. You must supply the serial number and all additional equipment numbers to order the correct manual.

4. Ordering

Retail Customers - Cascade Service Replacement Parts and Service Literature are sold through authorized lift truck dealers. To order, contact the lift truck dealer of your choice.

Lift Truck Dealers - To order Service Replacement Parts or Service Literature, contact:

Cascade Parts Depot
2501 Sheridan Avenue
Springfield, Ohio 45505
Telephone: 513-322-1199
Telex: 279563
FAX: 513-325-9270

5. Parts Log

We have supplied a parts ordering log located on the last page. Use this log as a permanent record of parts ordered from this manual.



WARNING: For the safety of yourself and others, DO NOT install any parts, unless you have thoroughly reviewed the appropriate installation and service manuals. For additional information, call 1-800-CAS-CADE (227-2233)

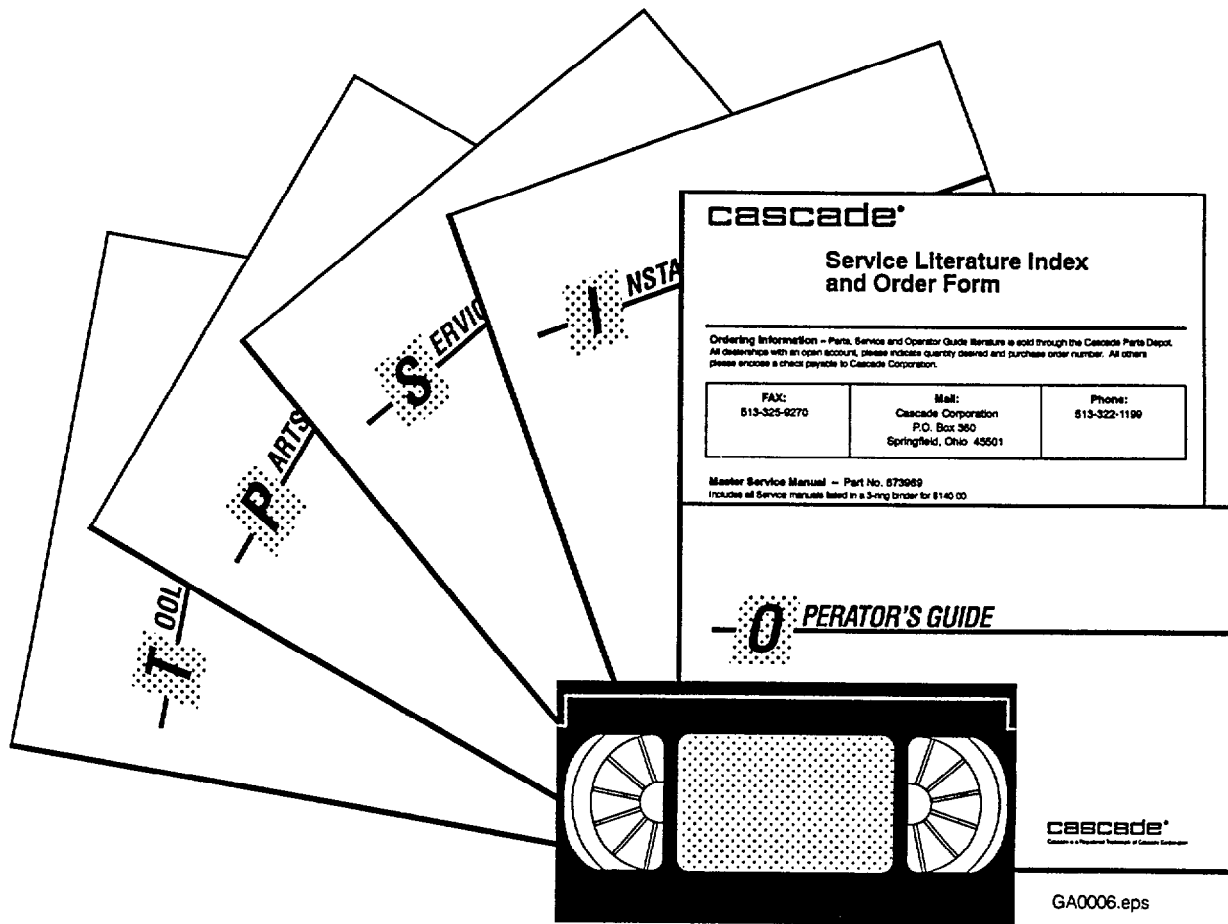
		cascade®	
LIFT TRUCK ATTACHMENT			
SERIAL NUMBER	206729	WEIGHT	LBS
CATALOG NUMBER	66F-RC-02B		
ADDITIONAL EQUIPMENT			
ADDITIONAL EQUIPMENT			
ADDITIONAL EQUIPMENT			
		ATTACHMENT CAPACITY	
		POUNDS AT	INCH LOAD CENTER
CAPACITY OF TRUCK AND ATTACHMENT COMBINATION MAY BE LESS THAN ATTACHMENT CAPACITY SHOWN ABOVE. CONSULT TRUCK NAMEPLATE.			
RECOMMENDED SYSTEM PRESSURE - 2000 PSI			
MAXIMUM SYSTEM PRESSURE - 2300 PSI			
cascade corporation			
FOR TECHNICAL ASSISTANCE, CONTACT		FOR PARTS AND SERVICE MANUALS CONTACT	
503 / 666 - 1511		513 / 322 - 1199	
PORTLAND, OREGON USA		SPRINGFIELD, OHIO USA	

S/N 206729

Serial Number Index

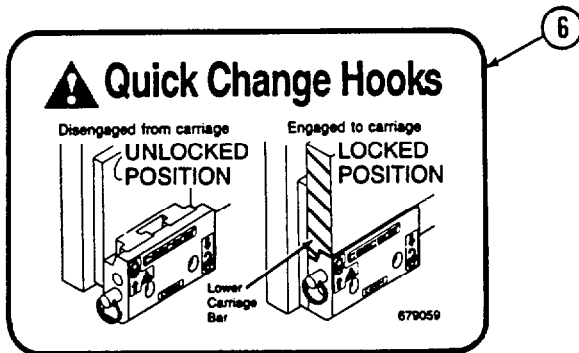
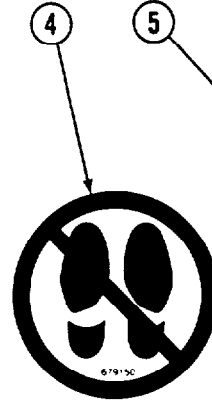
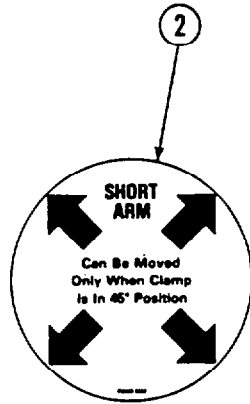
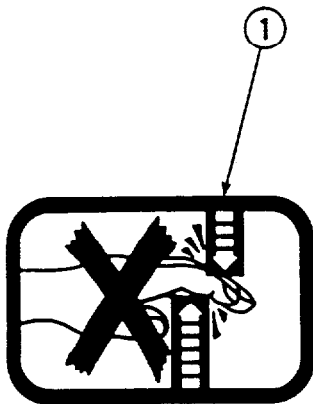
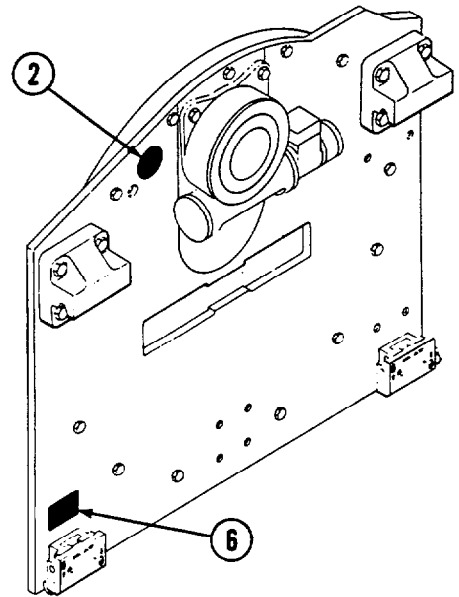
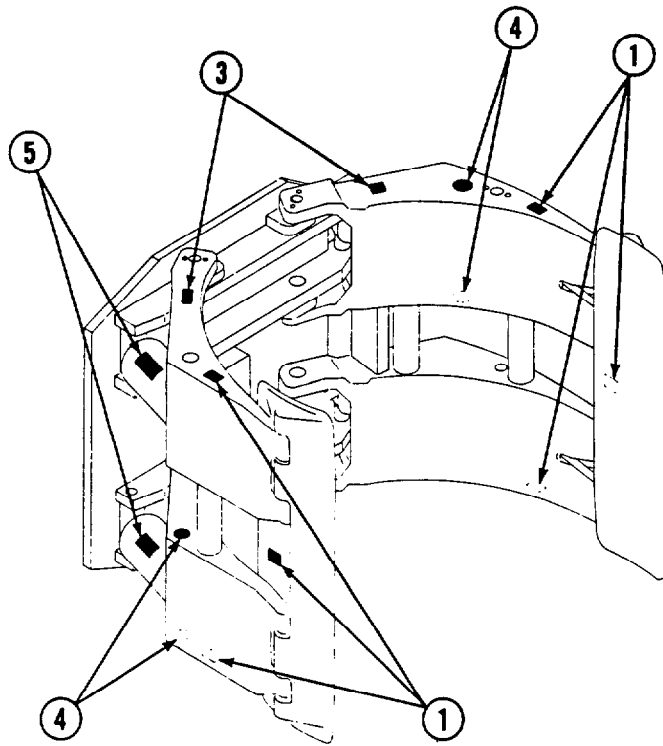
Serial Number	Frame Group Page	Common Components Page	Drive Group Page	Hosing Group Page	Cylinder Page	Arm Group Page	Bumper Group Page	Mounting Group Page
206729	1	2	4	6	11,12	13,15	-	17
206730	1	2	4	6	11,12	13,15	-	18
206731	1	2	4	6	11,12	13,15	-	17
206732	1	2	4	6	11,12	13,15	-	18
206733	1	2	4	7	10,11	13,15	-	17
206734	1	2	4	7	10,11	13,15	-	18
206735	1	2	4	7	10,11	13,15	-	17
206736	1	2	4	7	10,11	13,15	-	18
206753	1	2	4	6	11,12	13,14	16	17
206754	1	2	4	6	11,12	13,14	16	18
206755	1	2	4	6	11,12	13,14	16	17
206756	1	2	4	6	11,12	13,14	16	18
206757	1	2	4	7	10,11	13,14	16	17
206758	1	2	4	7	10,11	13,14	16	18
206759	1	2	4	7	10,11	13,14	16	17
206760	1	2	4	7	10,11	13,14	16	18

Publications



66F	
PART NO.	DESCRIPTION
207474	Parts Manual
674512	Service Manual
674509	Operators Guide
674510	Installation Instructions
677555	Driver Training Video-VHS
678363	Troubleshooting Video-VHS
680664	Servicing Cascade Cylinders-VHS
679929	Tool Catalog
673964	Literature Index Order Form

Safety Decals



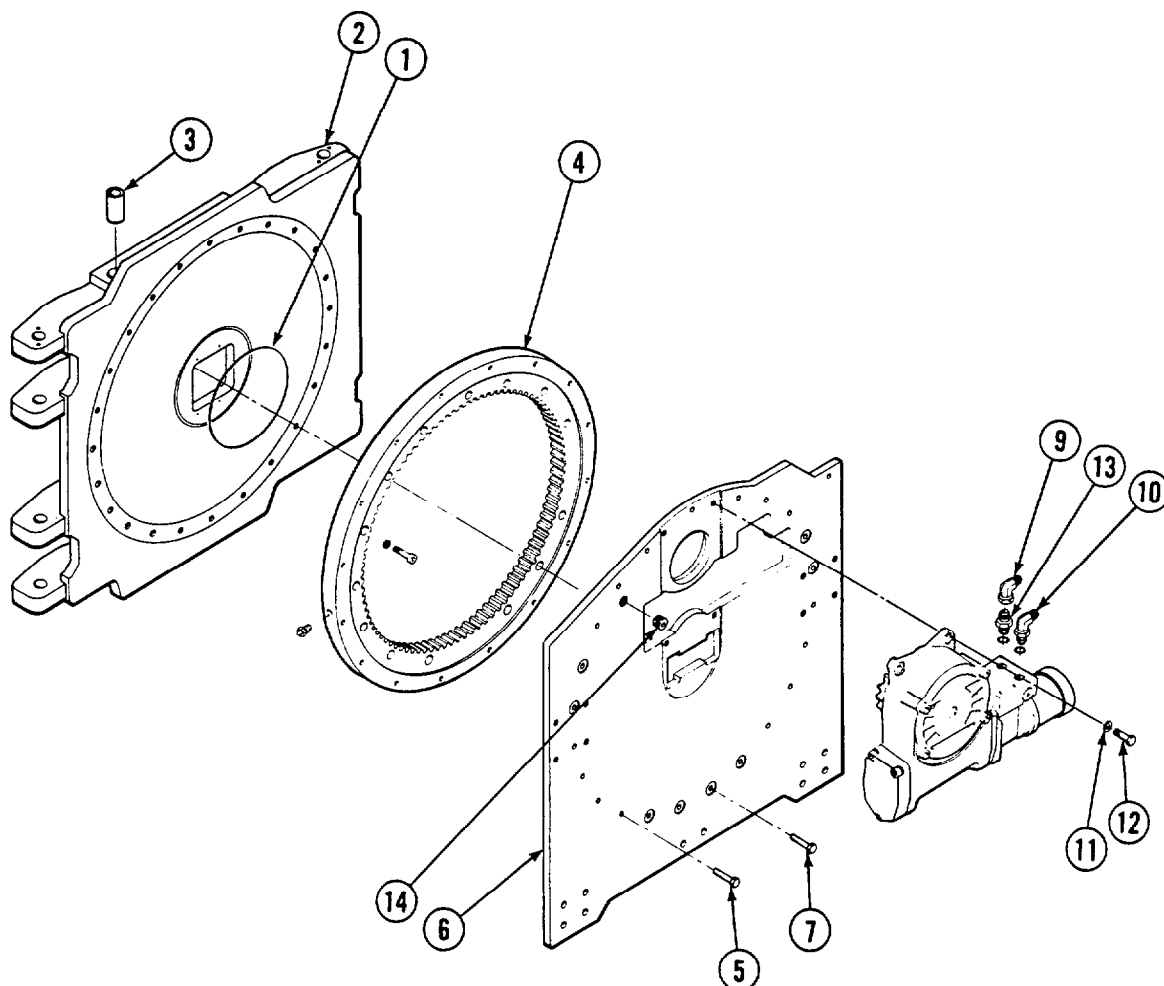
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REF	QTY	PART NO.	DESCRIPTION
1	6	665595	No Hand Hold Decal
2	1	660269	Short Arm Rotation Position Decal
3	4	656038	Caution Decal
4	4	679150	No Step Decal
5	4	665677	Trapped Pressure Decal
6	1	679059	Quick Change Hook Decal

Recommended Spare Parts List

66F Paper Roll Clamps				
PART NUMBER	DESCRIPTION	ATTACHMENTS SERVICED		
		1-5	6-19	20-50
206764	FRAME GROUP Bushing	8	16	16
660200 680651 676088 673385 676091 680640 676089 674257 674256	COMMON COMPONENTS Shim Pin Pin Adjustable Bumper Drive Pin Pin Pin Pin Adjustable Bumper Shim Drive Pin	8 1 1 4 1 1 1 16 2	16 2 2 8 2 2 2 32 4	16 2 2 8 2 2 2 32 4
675608 670506 670581 7214 643423 206392 206405 668184 675638 675637 656300	DRIVE GROUP Worm Pinion Bearing Snap Ring O-Ring Drive Motor Drive Motor Service Kit Sealant Bearing Service kit Bearing Service kit Gear Lube (48oz.)	0 0 0 2 1 0 1 1 1 1 1 1	1 1 1 4 2 1 2 2 2 2 2 2	2 2 2 4 2 1 2 2 2 2 2 2
681585	REVOLVING CONNECTION Shaft Service Kit	1	2	2
555725 557212	SHORT AND LONG ARM CYLINDER Cylinder Service Kit Check Valve	2 2	4 4	4 4
674701 ●	SHORT AND LONG ARM Pin Contact Pad	2 0	4 1	4 2
669344	MOUNTING GROUP Stop Kit	1	2	2
685660	PAINT 12 oz. Aerosol Can Heritage White	1	2	2
207474 674512 674510 674509 679929 673964	PUBLICATIONS Parts Manual Service Manual Installation Instruction Operator's Guide Tool Catalog Literature Index Order Form	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1
678363 680664 677555	VIDEOS Paper Roll Clamp Troubleshooting Servicing Cascade Cylinders Driver Training	1 1 1	1 1 1	1 1 1

● See specific parts page for part number.

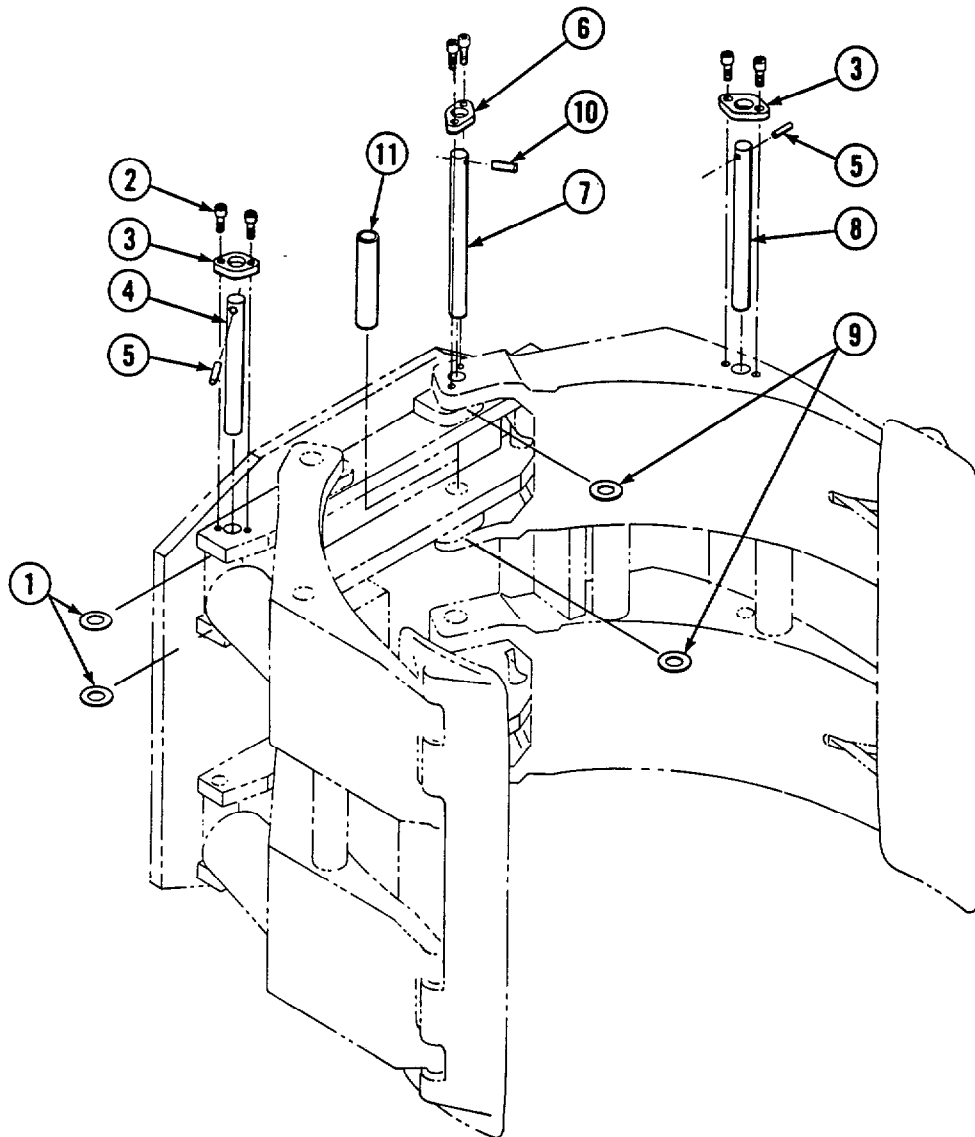
Frame Group



66F							
REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		206745	Frame Group – 51° Roll ♦	●8	1	675638	Drive Group
		206721	Frame Group – 60° Roll ♦	9	1	605761	Fitting, 8-8
1	1	670931	Seal	10	1	601250	Fitting, 8-8
2	1	206744	Faceplate – 51° Roll ♦	▼11	4	6290	Lockwasher
2	1	206723	Faceplate – 60° Roll ♦	▼12	4	763021	Capscrew
3	8	206764	Bushing	13	1	601377	Fitting, 8-8
4	1	204157	Bearing Assembly	▼14	1	6605	Plug
▼5	15	788377	Capscrew	▼15	24	682918	Capscrew
6	1	206724	Baseplate	16	1	7401	Grease Fitting
▼7	9	689976	Capscrew				

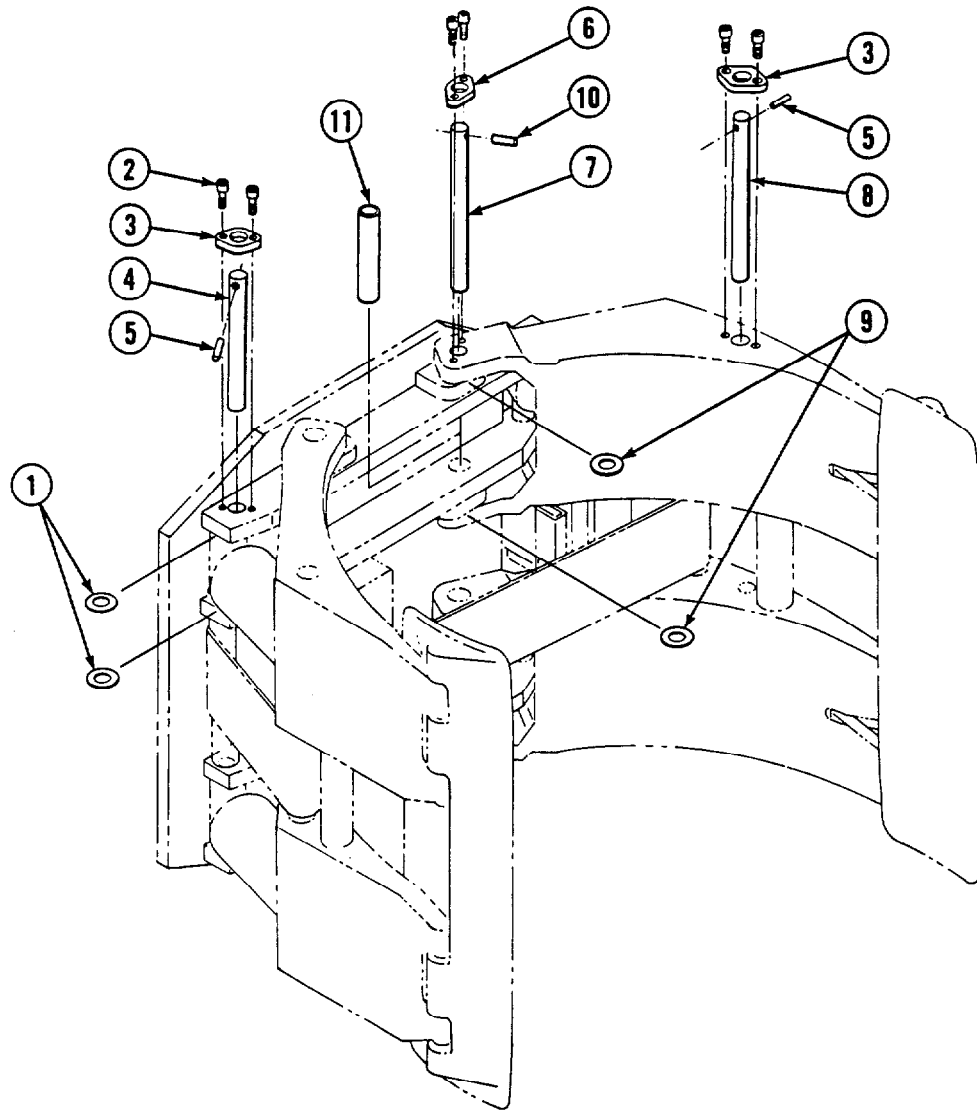
- ♦ Maximum clamp handling capacity.
- ▼ Included in fastener group 206752.
- See page 4 for replacement parts breakdown.

Common Components Group



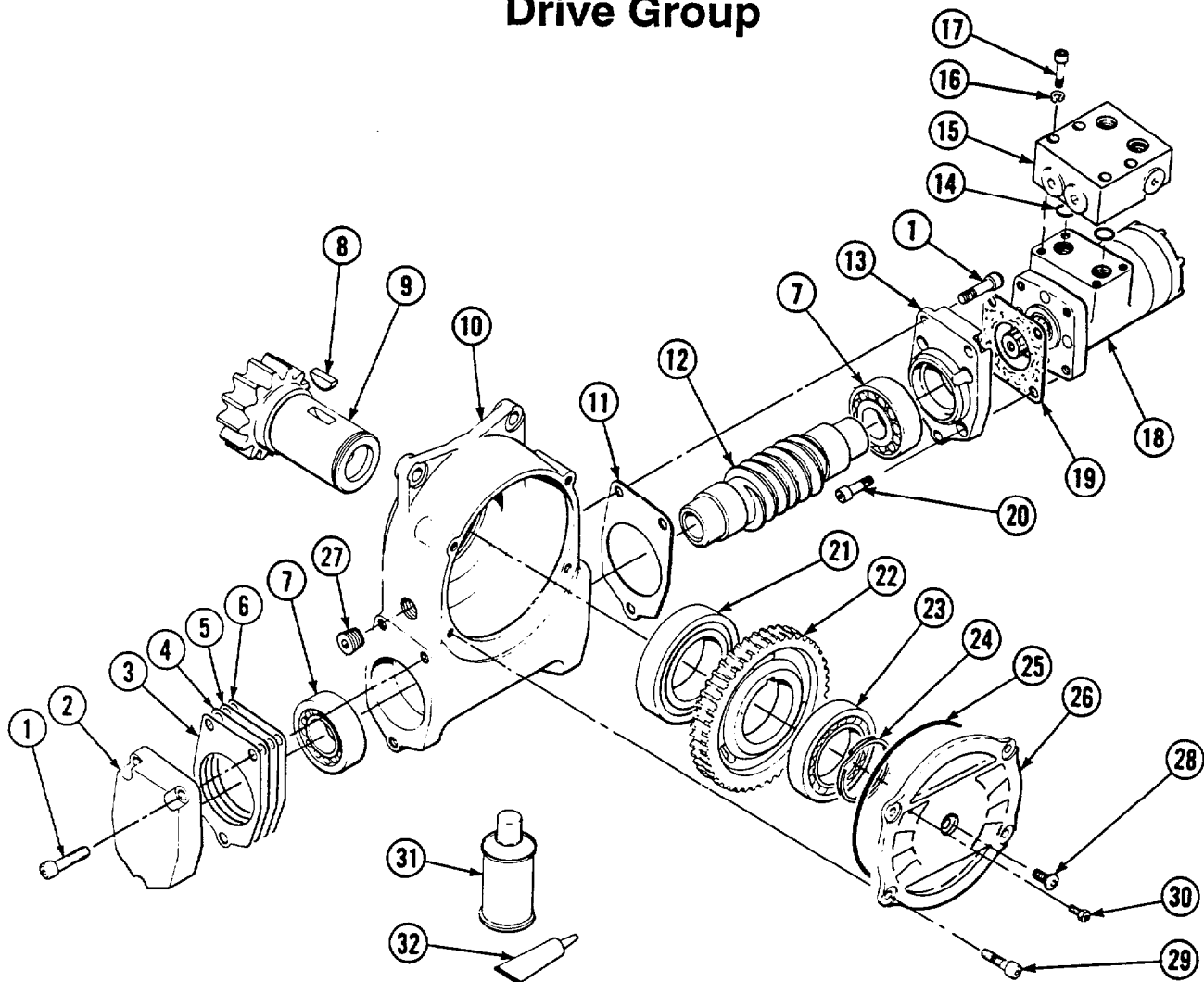
66F			
REF	QTY	PART NO.	DESCRIPTION
		206763	Components Group
1	8	660200	Shim
2	24	4466	Capscrew
3	8	674828	Retainer
4	4	680651	Pin
5	8	673385	Drive Pin
6	4	674829	Retainer
7	4	676091	Pin
8	4	680640	Pin
9	16	674257	Shim
10	4	674256	Drive Pin
11	4	681671	Spacer

Common Components Group Adjustable Bumper



66F			
REF	QTY	PART NO.	DESCRIPTION
		206762	Components Group
1	8	660200	Shim
2	24	4466	Capscrew
3	8	674828	Retainer
4	4	676088	Pin
5	8	673385	Drive Pin
6	4	674829	Retainer
7	4	676091	Pin
8	4	676089	Pin
9	16	674257	Shim
10	4	674256	Drive Pin
11	4	681671	Spacer

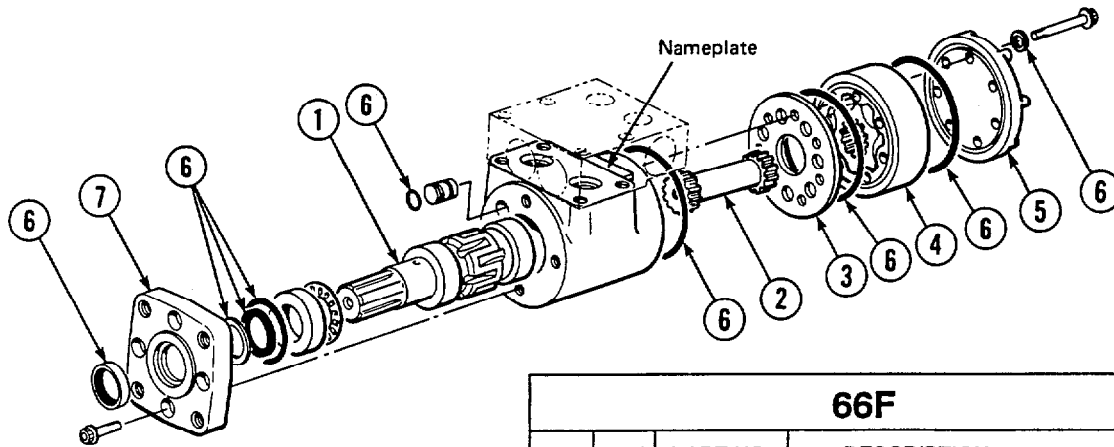
Drive Group



66F							
REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		675628	Drive Group with Motor	◆18	1	206392	Drive Motor
■		675631	Drive Group without Motor	19	1	670575	Gasket
1	6	607071	Capscrew, 7/16 NC x 1.0 GR8	20	4	4468	Capscrew, 3/8 NC x .75 GR8
2	1	676855	Cover	21	1	670580	Bearing
3	●	674513	Shim - .005" (blue)	22	1	675609	Worm Gear
4	●	670574	Shim - .010" (brown)	23	1	670581	Bearing
5	●	671757	Shim - .015" (pink)	24	1	7214	Snap Ring
6	●	671758	Shim - .020" (yellow)	25	1	643423	O-Ring
7	2	670579	Bearing	26	1	670567	Cover
8	1	670582	Key	27	1	6609	Plug
9	1	670506	Pinion	28	1	4874	Capscrew, 3/8 NC x .50 GR8
10	1	670565	Housing	29	4	671535	Capscrew, 5/16 NC x .75
11	1	686465	Fiber Gasket	30	1	644010	Relief Fitting
12	1	675608	Worm	31	1	656300	Gear Box Lube - 48 oz.
13	1	670570	Adapter	32	1	668184	Sealant
14	2	2705	Seal			670578	Shim Service Kit (items 3-6, 11, 25 & 32)
15	1	670549	Check Valve			675637	Bearing Service Kit (items 21 & 32)
16	4	6444	Lockwasher			675638	Bearing Service Kit (items 3-7, 11 & 25)
17	4	670059	Capscrew, 5/16 NC x 1.75 GR8			206394	Drive Motor Kit (items 11, 14, 18, 19 & 32)

- Includes all items except 15, 17 and 18.
- Quantity as required.
- ◆ See page 5 for replacement parts breakdown.

Drive Motor

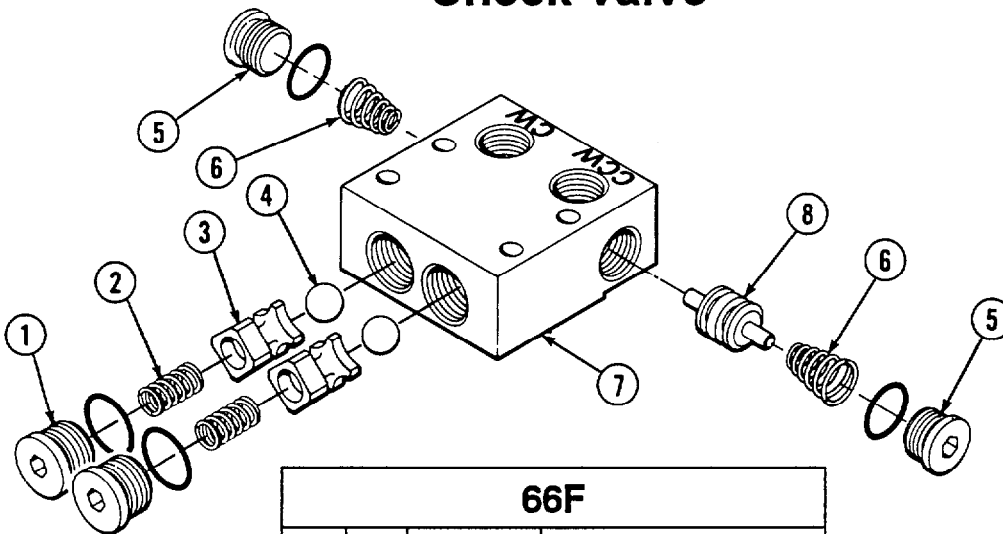


66F			
REF	QTY	PART NO.	DESCRIPTION
		206392	Drive Motor
1	1	675478	Shaft
2	1	675477	Drive
3	1	675479	Spacer Plate
■ 4	1	675480	Gerotor Set (101-1768-007)
■ 4	1	685075	Gerotor Set (101-1768-009)
5	1	675482	End Cap
● 6	1	206405	Service Kit
■ 7	1	685089	Flange (101-1768-007)
■ 7	1	685090	Flange (101-1768-009)

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.

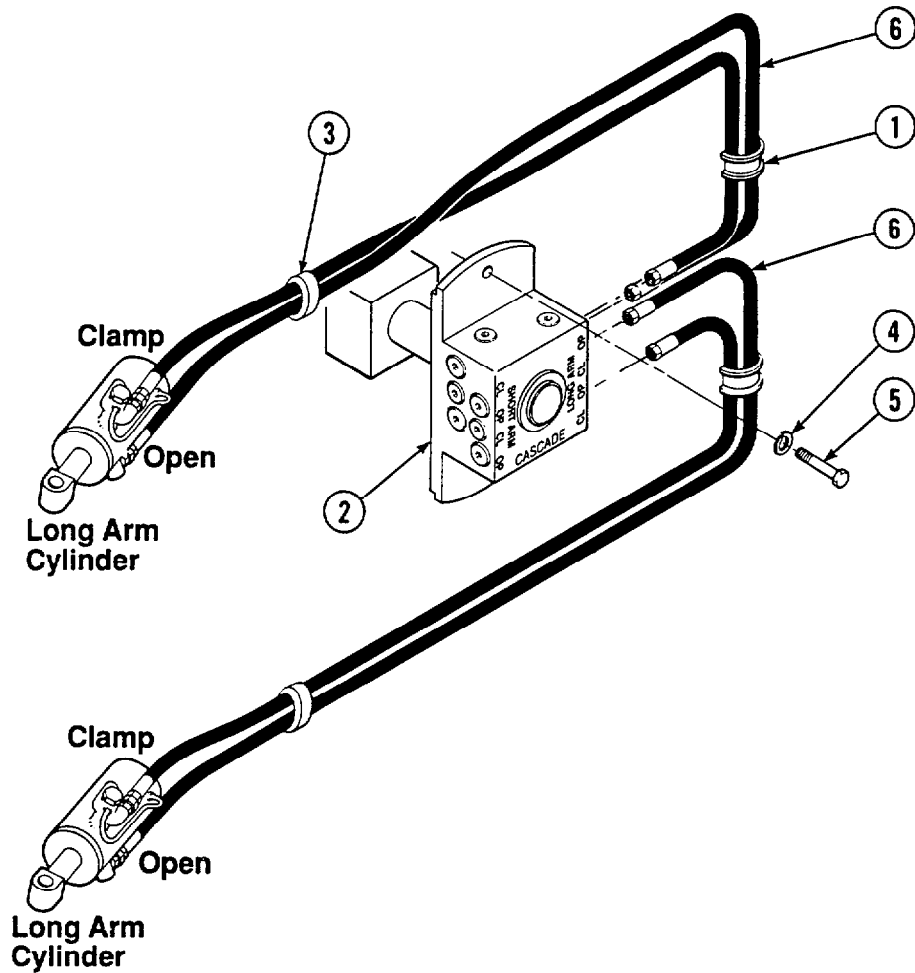
- See Nameplate under valve for correct part number of Gerotor Set and Flange.
- Compatible with water glycol based hydraulic fluids.

Check Valve



66F			
REF	QTY	PART NO.	DESCRIPTION
		670549	Check Valve Assembly
1	1	609543	Plug
2	1	670552	Spring
3	1	670551	Guide
4	1	7020	Ball
5	1	602580	Plug
6	1	673989	Spring
7	1	670550	Body
8	1	670553	Spool

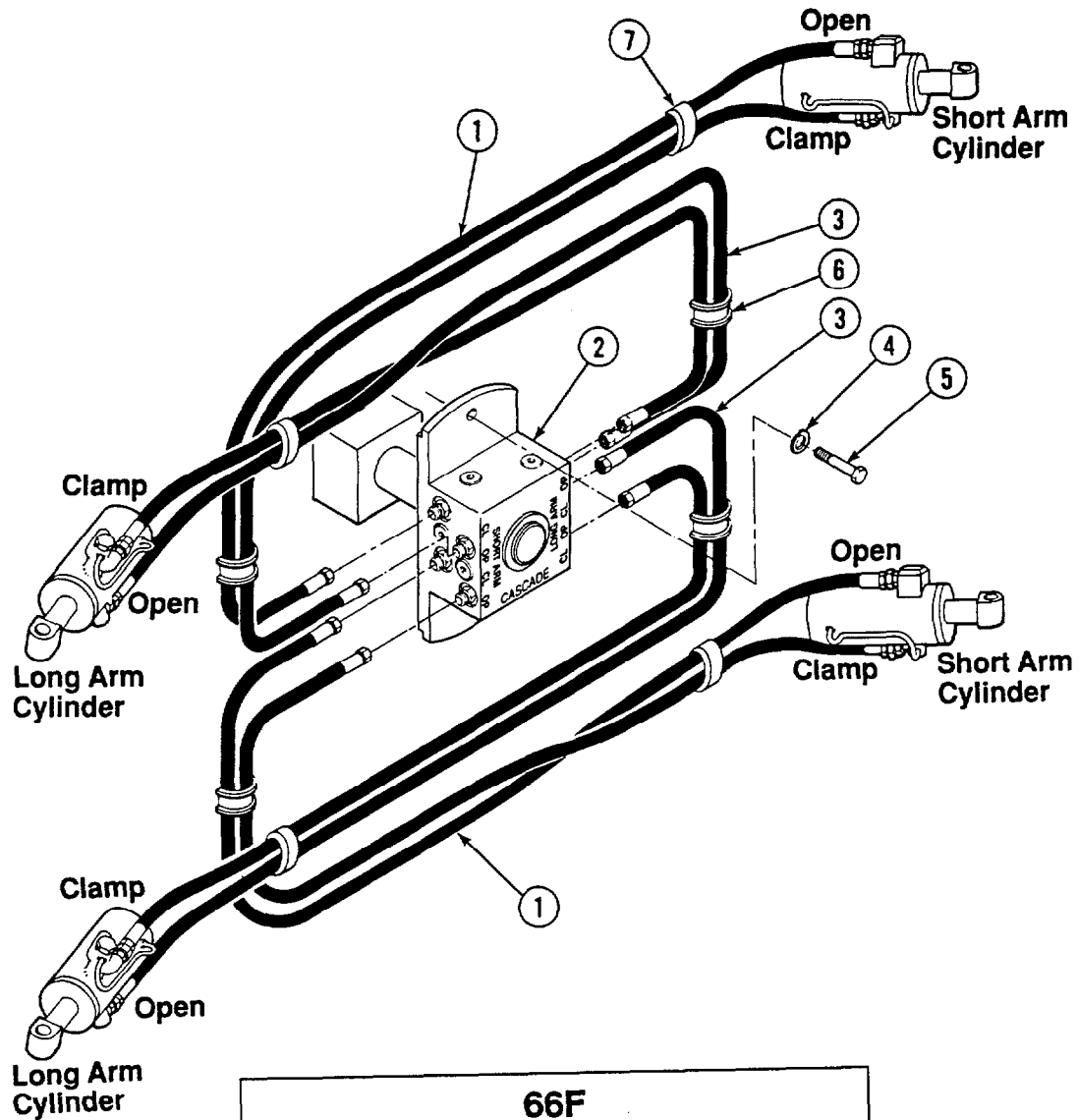
Hosing Groups Fixed Short Arm



66F			
REF	QTY	PART NO.	DESCRIPTION
		206750	Hosing Group – 51' Roll ■
		206751	Hosing Group – 60' Roll ■
1	2	680114	Insert
●2	1	687292	Revolving Connection
3	2	673417	Segment
4	2	6288	Lockwasher, 3/8 ID
5	2	3603	Capscrew, 3/8 NC x 1.00
6	4	206742	Hose – 51' Roll ■
6	4	680221	Hose – 60' Roll ■

- Maximum clamp handling capacity.
- See page 8 for replacement parts breakdown.

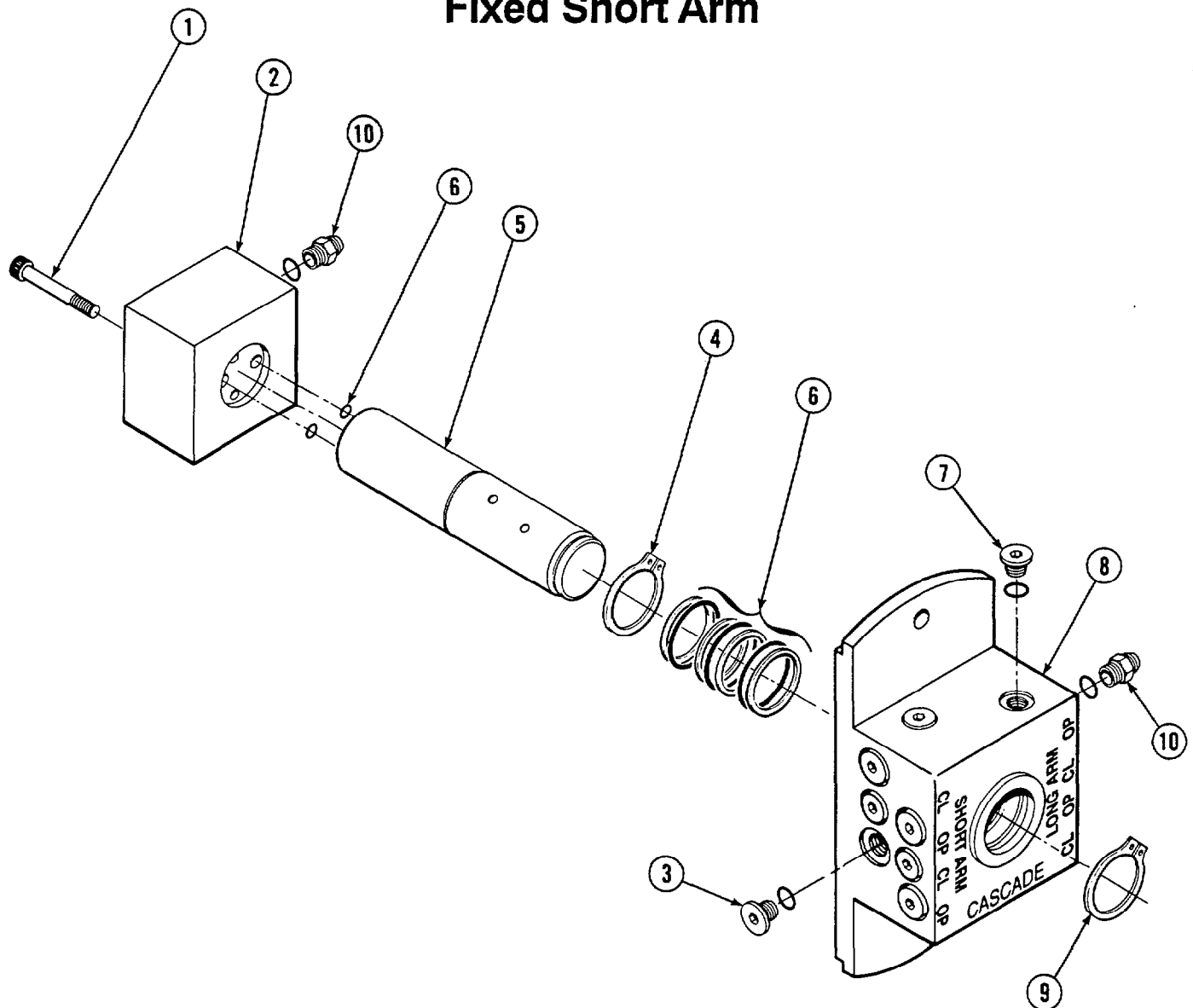
Hosing Groups Positioned Short Arm



66F			
REF	QTY	PART NO.	DESCRIPTION
		206748	Hosing Group - 51' Roll ■
		206743	Hosing Group - 60' Roll ■
1	2	680220	Hose
●2	1	687291	Revolving Connection
3	4	206742	Hose - 51' Roll ■
3	4	680221	Hose - 60' Roll ■
4	2	6288	Lockwasher, 3/8 ID
5	2	3603	Capscrew, 3/8 NC x 1.00
6	4	680114	Insert
7	2	673417	Segment

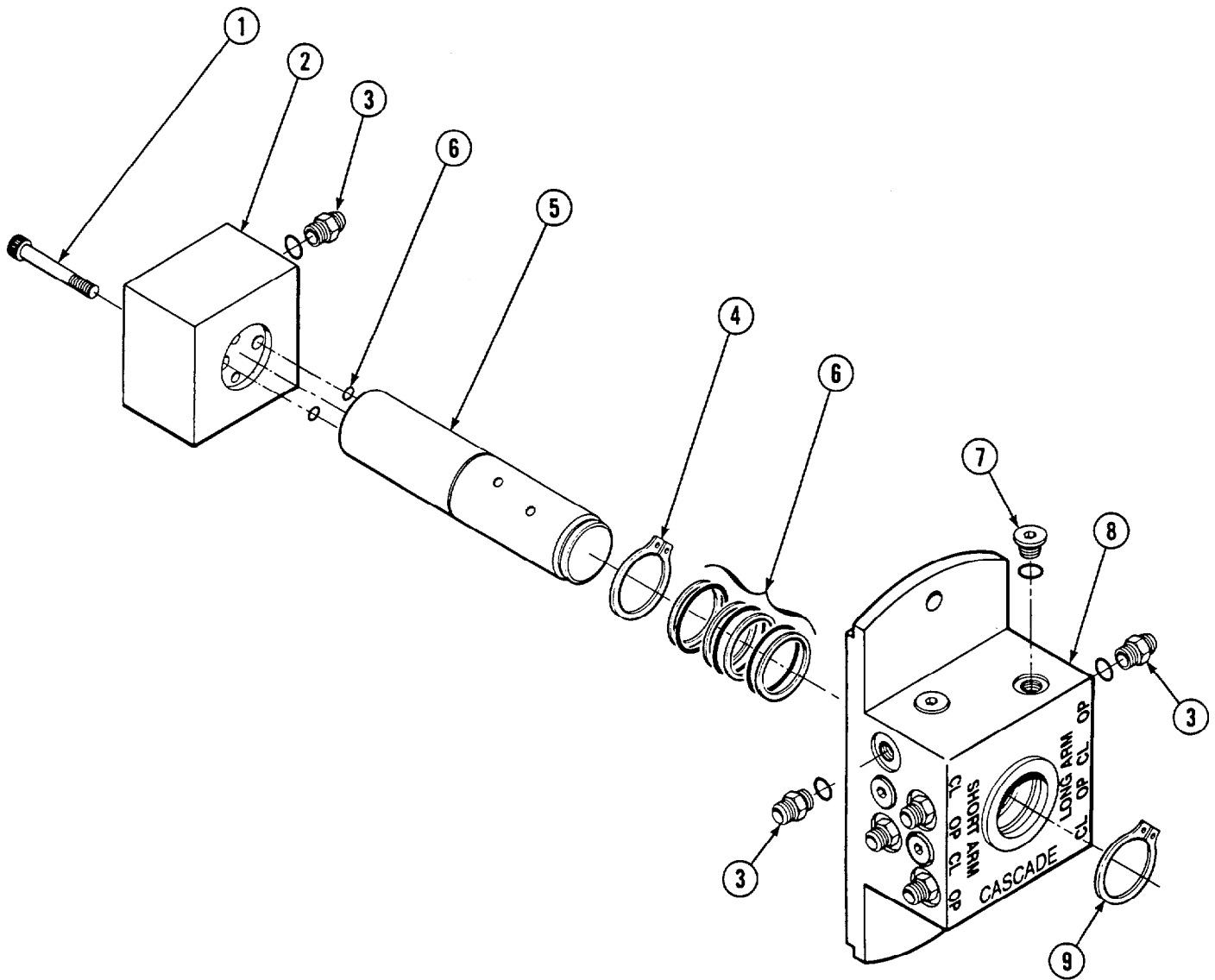
- Maximum clamp handling capacity.
- See page 9 for replacement parts breakdown.

Revolving Connection Fixed Short Arm



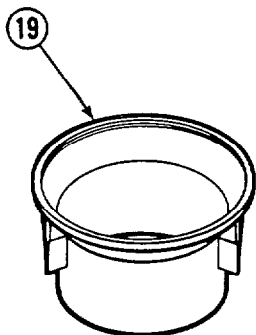
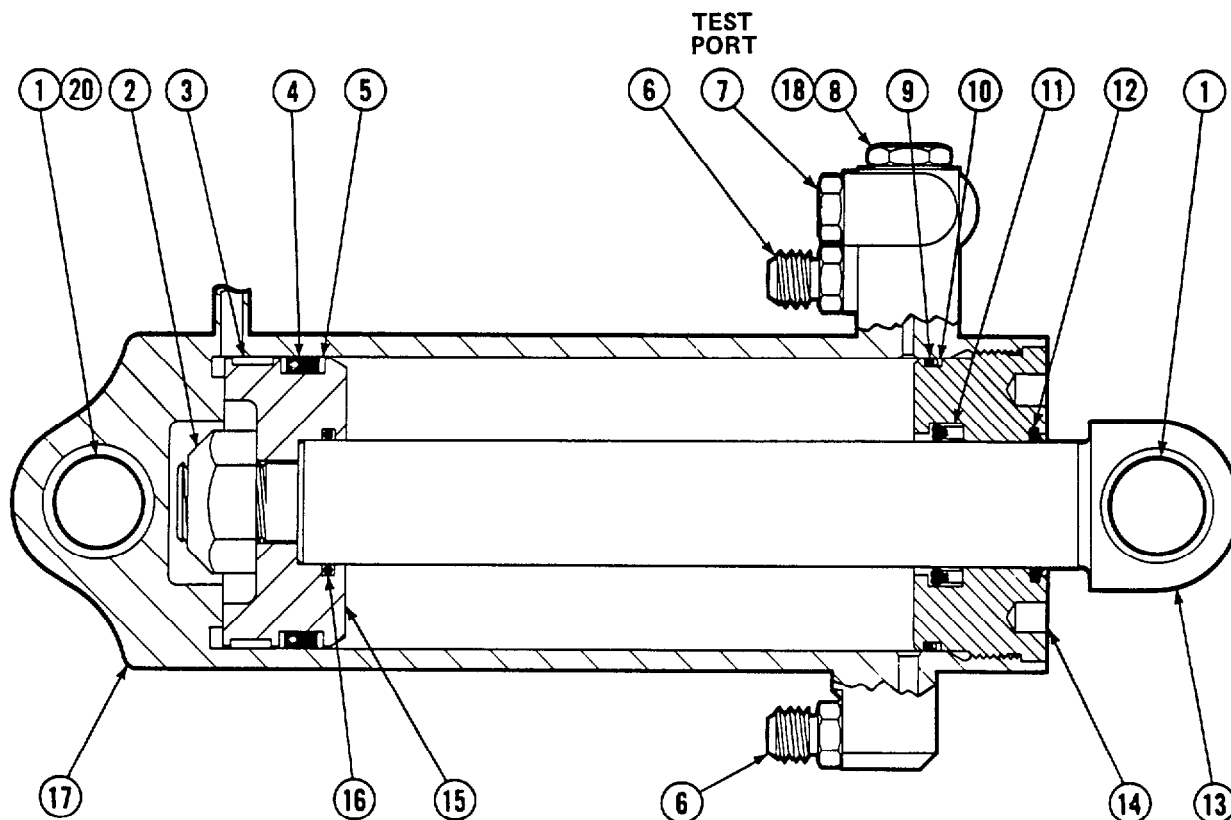
66F			
REF	QTY	PART NO.	DESCRIPTION
		687292	Revolving Connection
1	2	768796	Capscrew, M8 x 35-8.8
2	1	687301	End Block
3	4	604510	Plug, 6
4	1	7341	Snap Ring
5	1	687288	Shaft
6	1	681585	Service Kit
7	6	663694	Plug, 3
8	1	205031	Body
9	1	3138	Snap Ring
10	6	604511	Fitting, 6

Revolving Connection Positioned Short Arm



66F			
REF	QTY	PART NO.	DESCRIPTION
		687291	Revolving Connection
1	2	768796	Capscrew, M8 x 35-8.8
2	1	687301	End Block
3	10	604511	Plug, 6
4	1	7341	Snap Ring
5	1	687288	Shaft
6	1	681585	Service Kit
7	6	663694	Plug, 3
8	1	205031	Body
9	1	3138	Snap Ring

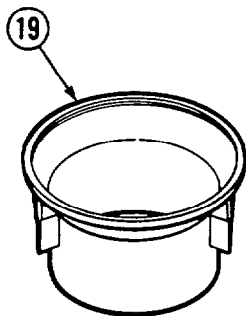
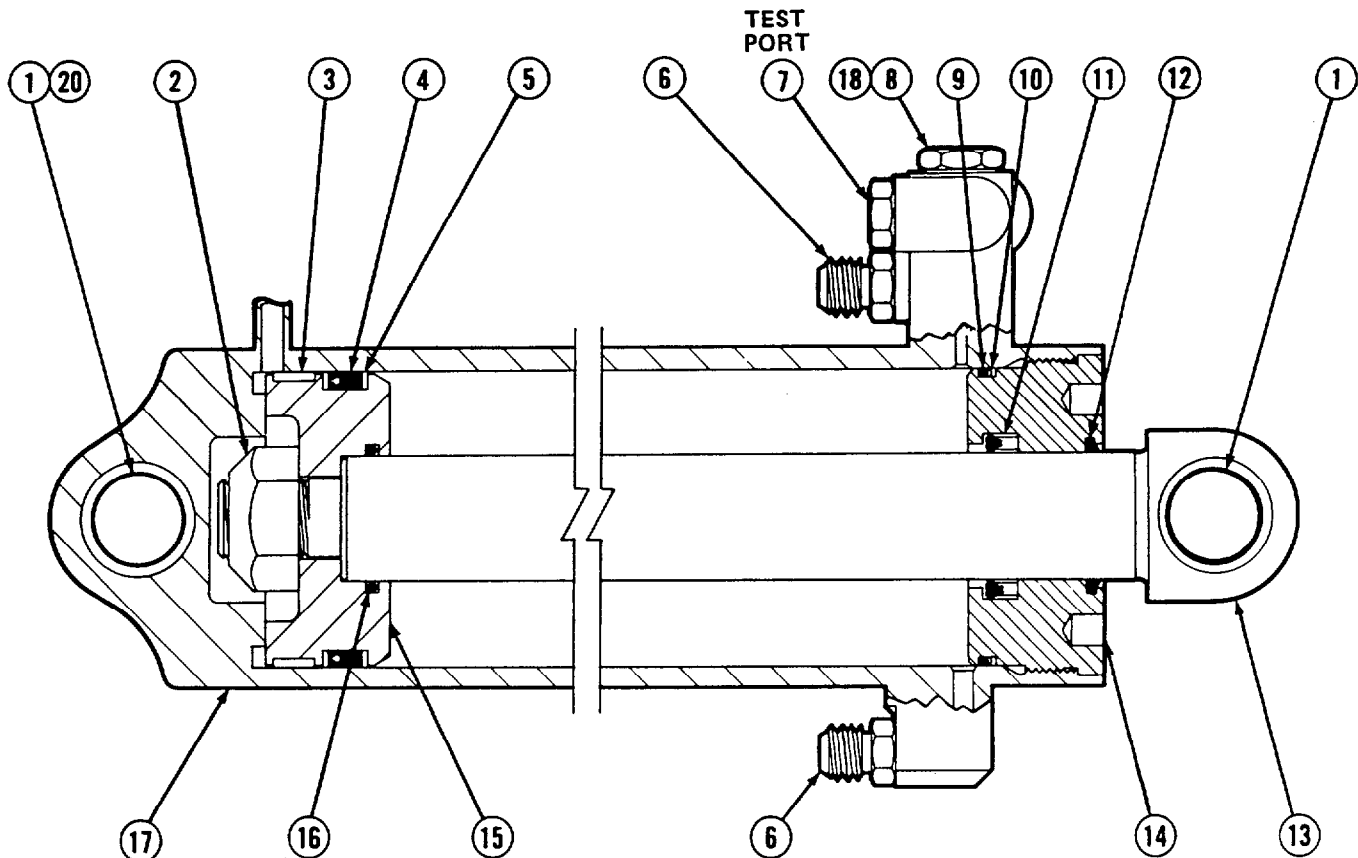
Short Arm Cylinder



66F				
REF	QTY	51" Roll ■ PART NO.	60" Roll ■ PART NO.	DESCRIPTION
		557365	557362	Cylinder Assembly
1	3	674843	674843	Bearing
2	1	560997	560997	Nut
● 3	1	660769	660769	Bearing
● 4	1	662462	662462	Seal
● 5	2	638295	638295	Back-up Ring
6	2	604511	604511	Fitting, 6-6
7	1	556852	556852	Fitting, 6
8	1	557212	557212	Check Valve
● 9	1	2801	2801	O-Ring
● 10	1	562731	562731	Back-up Ring
● 11	1	554598	554598	Seal
● 12	1	628047	628047	Wiper
13	1	557395	555391	Rod
14	1	555724	555724	Retainer
15	1	557389	557389	Piston
● 16	1	2722	2722	O-Ring
17	1	556712	555741	Shell
18	1	667516	667516	Check Valve Service Kit
● 19	1	669243	669243	Seal Loader
20	1	558835	558835	Spacer
	1	555725	555725	Cylinder Service Kit

- Maximum clamp handling capacity.
- Included in Service Kit 555725.

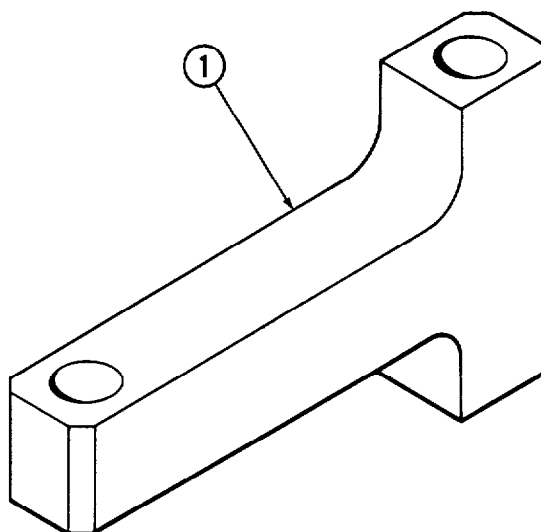
Long Arm Cylinder



66F				
REF	QTY	51" Roll ■ PART NO.	60" Roll ■ PART NO.	DESCRIPTION
		683939	557384	Cylinder Assembly
1	3	674843	674843	Bearing
2	1	560997	560997	Nut
● 3	1	660769	660769	Bearing
● 4	1	662462	662462	Seal
● 5	2	638295	638295	Back-up Ring
6	2	604511	604511	Fitting, 6-6
7	1	556852	556852	Fitting, 6
8	1	557212	557212	Check Valve
● 9	1	2801	2801	O-Ring
● 10	1	562731	562731	Back-up Ring
● 11	1	554598	554598	Seal
● 12	1	628047	628047	Wiper
13	1	557401	555390	Rod
14	1	555724	555724	Retainer
15	1	557389	557389	Piston
● 16	1	2722	2722	O-Ring
17	1	564122	556597	Shell
18	1	667516	667516	Check Valve Service Kit
● 19	1	669243	669243	Seal Loader
20	1	558835	558835	Spacer
	1	555725	555725	Cylinder Service Kit

■ Maximum clamp handling capacity.
● Included in Service Kit 555725.

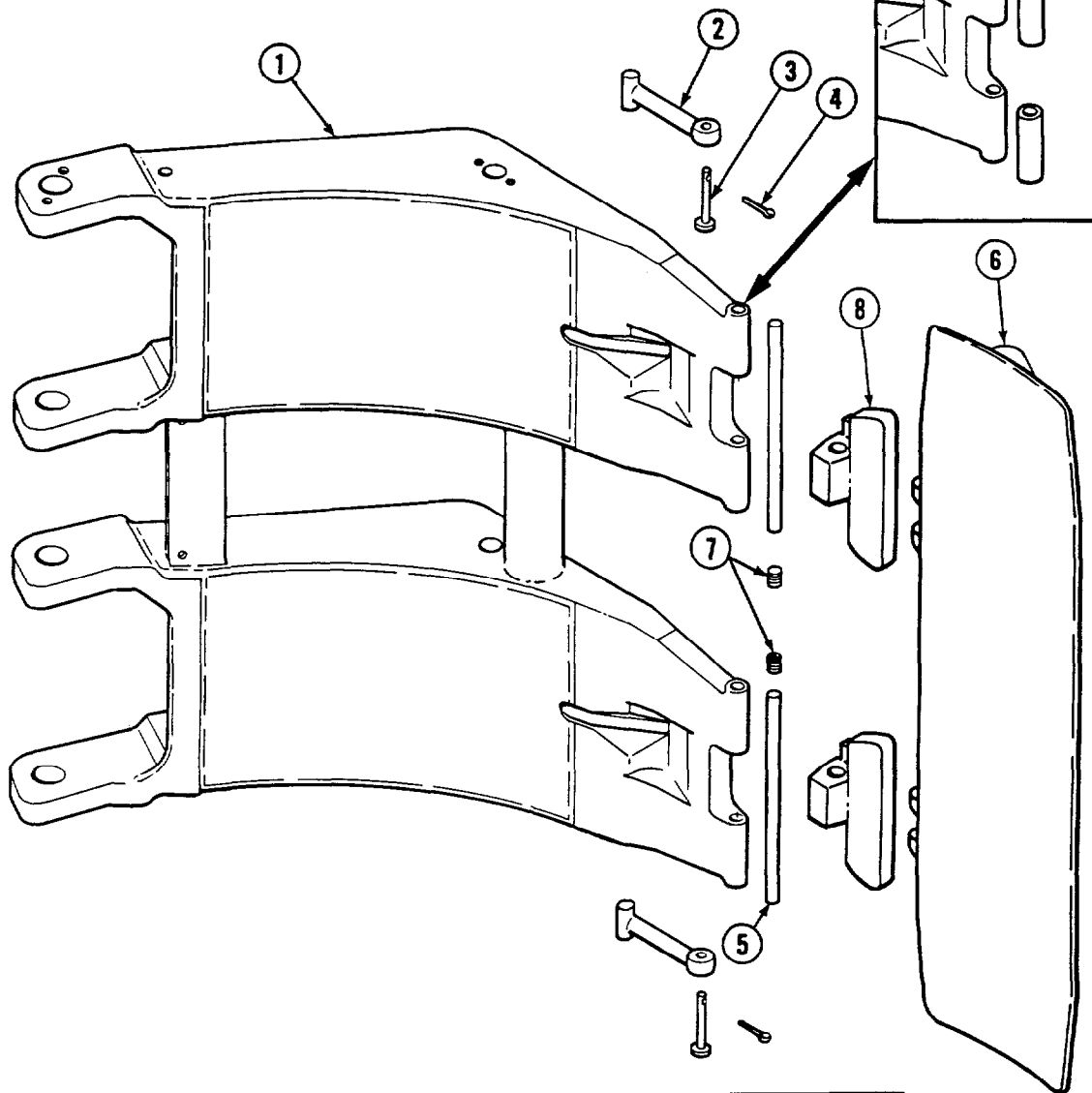
Short Arm Link



66F			
REF	QTY	PART NO.	DESCRIPTION
1	2	675959	Link – 51° Roll ■
1	2	675960	Link – 60° Roll ■

■ Maximum clamp handling capacity.

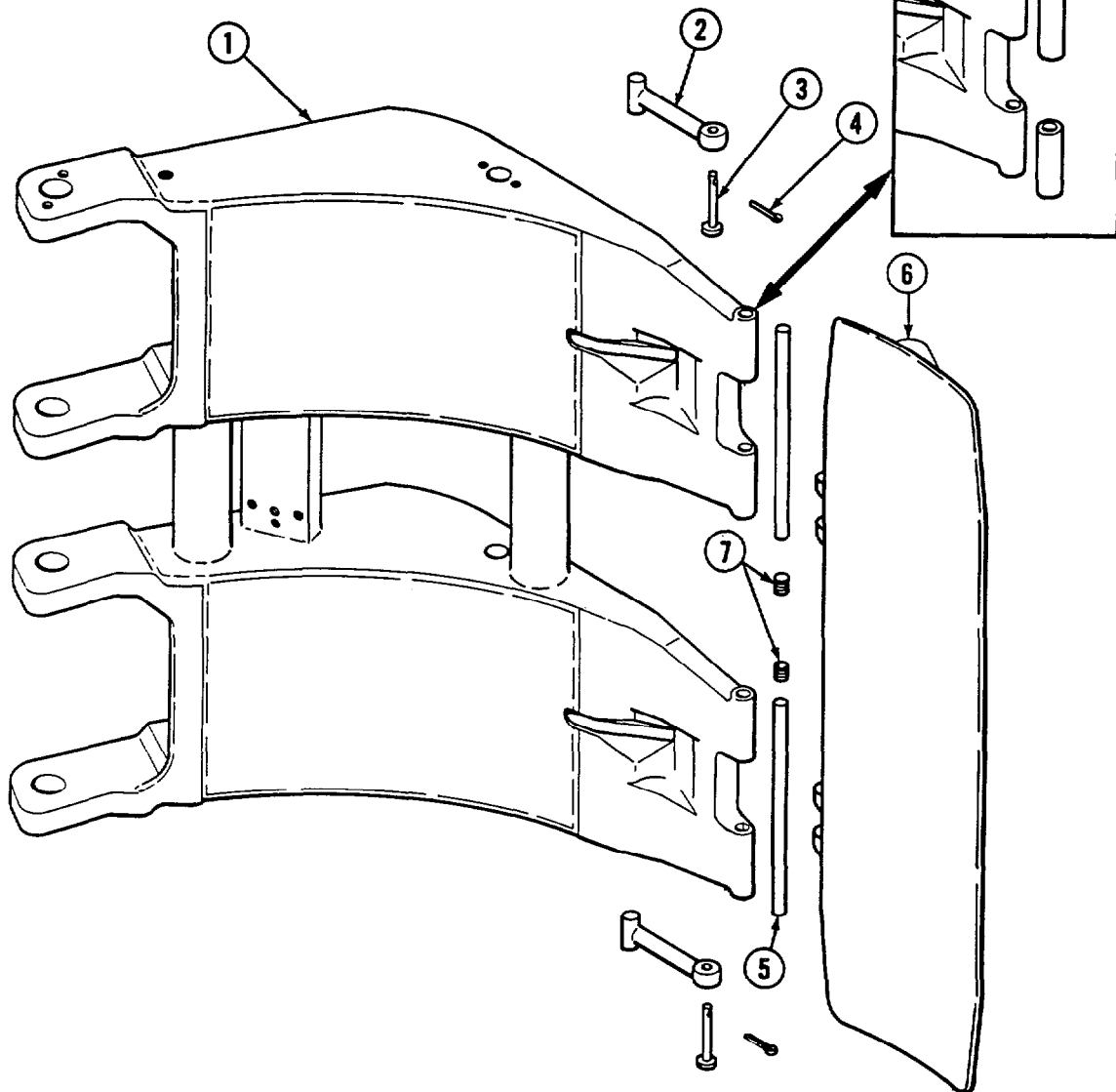
Short Arm Adjustable and Non Adjustable Bumper



66F				
REF	QTY	51" Roll ■ PART NO.	60" Roll ■ PART NO.	DESCRIPTION
		675918	675921	Arm Assembly
1	1	675974	675977	Arm
2	2	674700	674700	Link
3	2	674265	674265	Clevis Pn
4	2	6525	6525	Cotter Pin
5	2	674701	674701	Pin
6	1	206622	206622	Contact Pad
7	2	674510	674510	Plug
8	2	206623	206623	Wear Pad
9	1	674928	674928	Arm Tip Repair Kit

■ Maximum clamp handling capacity.

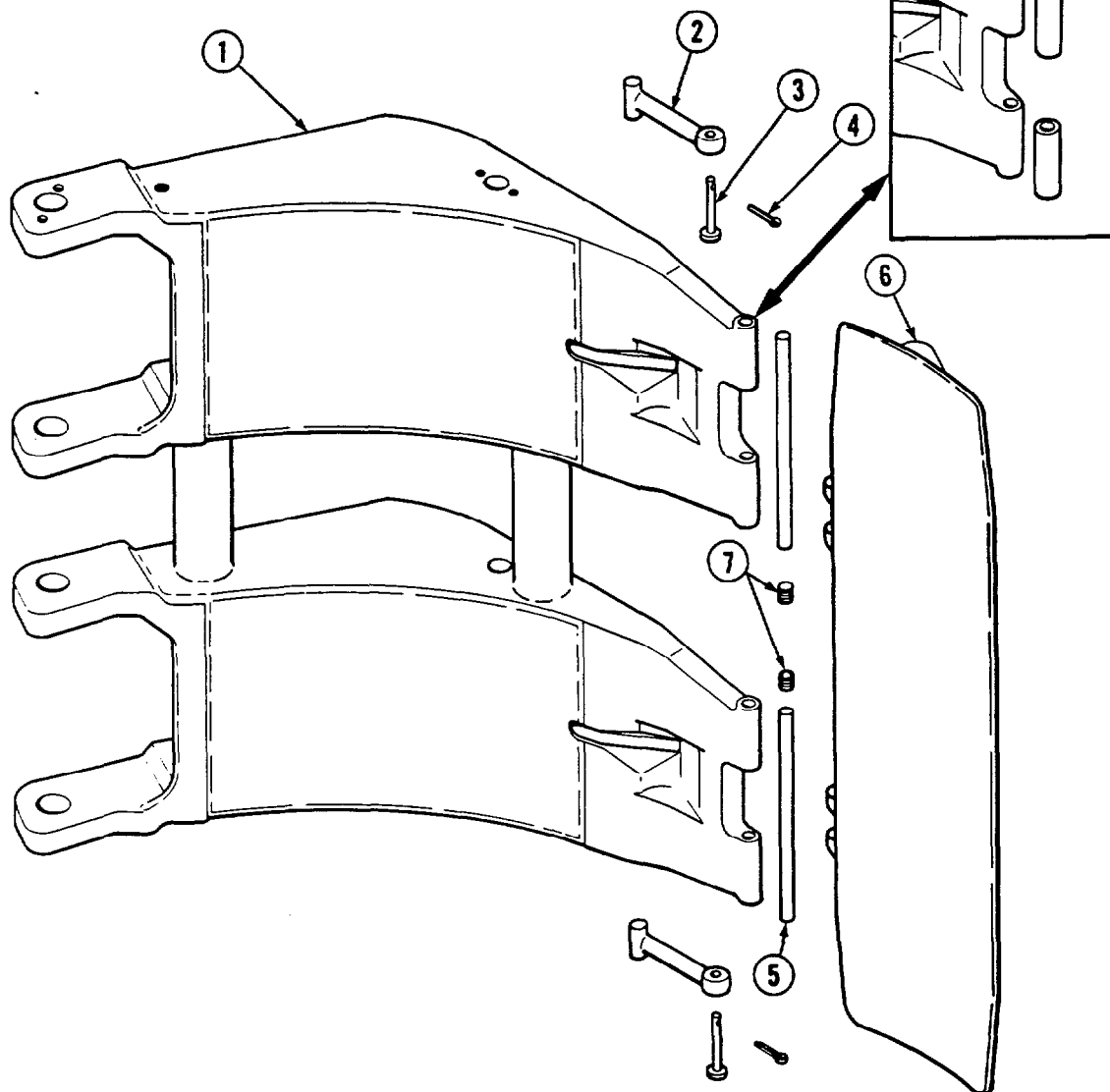
Long Arm Adjustable Bumper



66F				
REF	QTY	51" Roll ■ PART NO.	60" Roll ■ PART NO.	DESCRIPTION
		675919	675922	Arm Assembly
1	1	675975	675978	Arm
2	2	674700	674700	Link
3	2	674265	674265	Clevis Pn
4	2	6525	6525	Cotter Pin
5	2	674701	674701	Pin
6	1	675992	675992	Contact Pad
7	2	674510	674510	Plug
8	1	674928	674928	Arm Tip Repair Kit

■ Maximum clamp handling capacity.

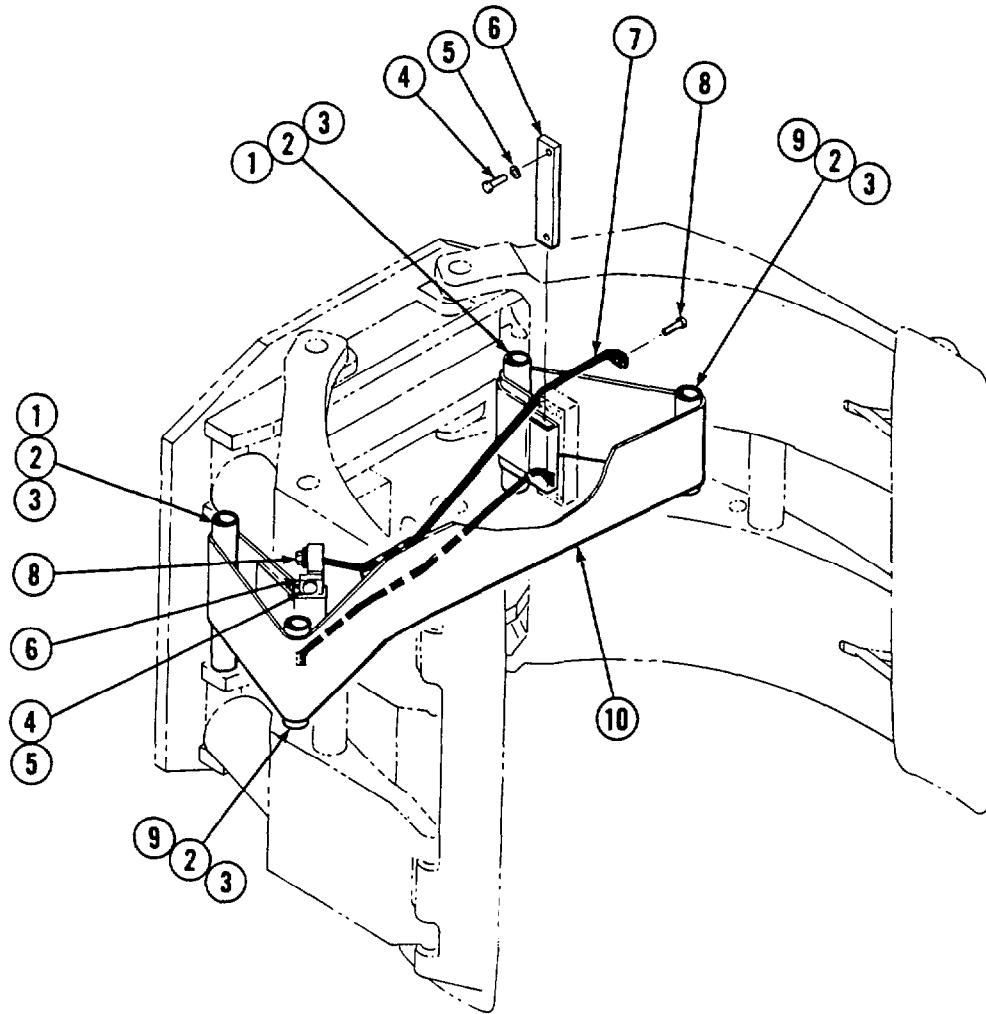
Long Arm Non Adjustable Bumper



66F				
REF	QTY	51" Roll ■ PART NO.	60" Roll ■ PART NO.	DESCRIPTION
		680462	680464	Arm Assembly
1	1	680466	680470	Arm
2	2	674700	674700	Link
3	2	674265	674265	Clevis Pn
4	2	6525	6525	Cotter Pin
5	2	674701	674701	Pin
6	1	675992	675992	Contact Pad
7	2	674510	674510	Plug
8	1	674928	674928	Arm Tip Repair Kit

■ Maximum clamp handling capacity.

Adjustable Bumper Groups

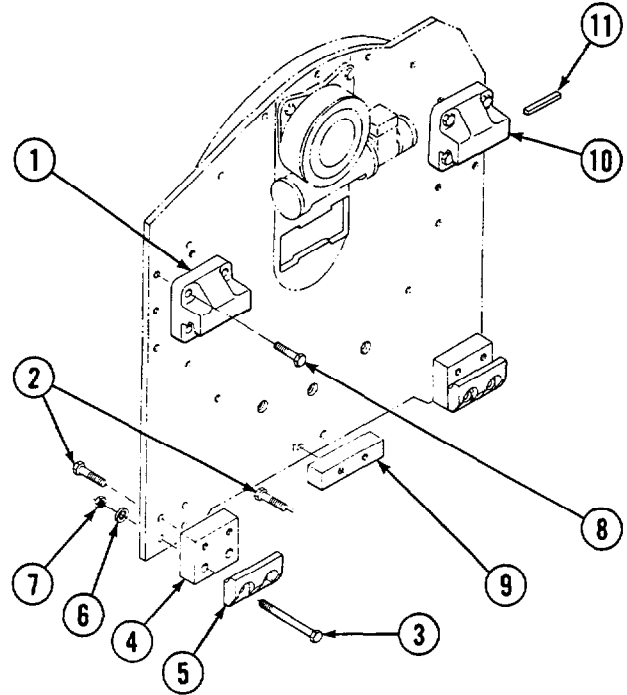


66F			
REF	QTY	PART NO.	DESCRIPTION
		675944	Bumper Group – 51° Roll ■
		675945	Bumper Group – 60° Roll ■
1	2	676040	Roller
2	8	674843	Bearing
3	12	660200	Shim
4	4	3655	Capscrew, 1/2 NC x 1.5
5	4	6455	Lockwasher, 1/2 ID
6	2	674850	Bar
7	2	676418	Tie Down
8	4	669351	Capscrew
9	2	676042	Roller
10	1	676062	Belt – 51° Roll ■
10	1	676063	Belt – 60° Roll ■

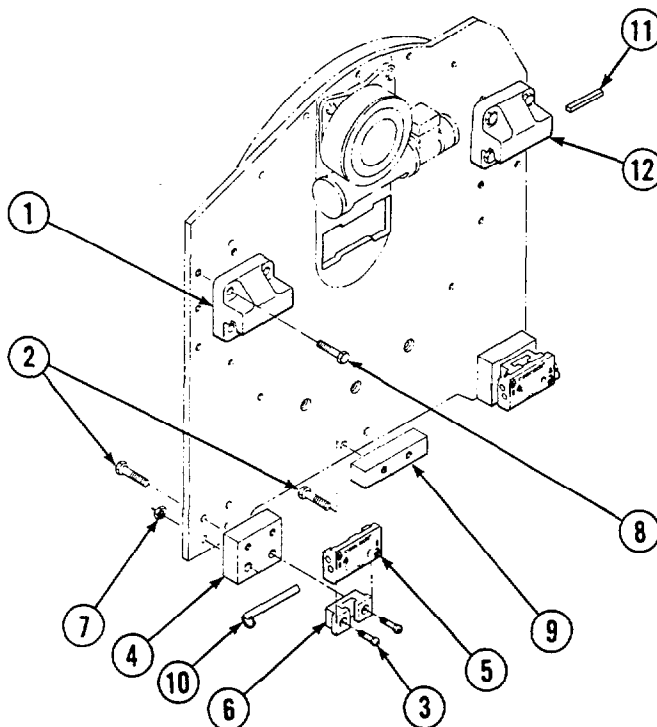
■ Maximum clamp handling capacity.

Bolt-On Mounting Group

66F Class III, 0°			
REF	QTY	PART NO.	DESCRIPTION
		206722	Mounting Group
1	1	674024	Upper Hook – L. H.
2	6	766154	Capscrew
3	4	768570	Capscrew
4	2	206747	Spacer
5	2	675969	Lower Hook
6	4	667225	Washer
7	4	781534	Nut
8	8	779010	Capscrew
9	1	206746	Center Spacer
10	1	674025	Upper Hook – R. H.
11	1	669344	Stop Kit



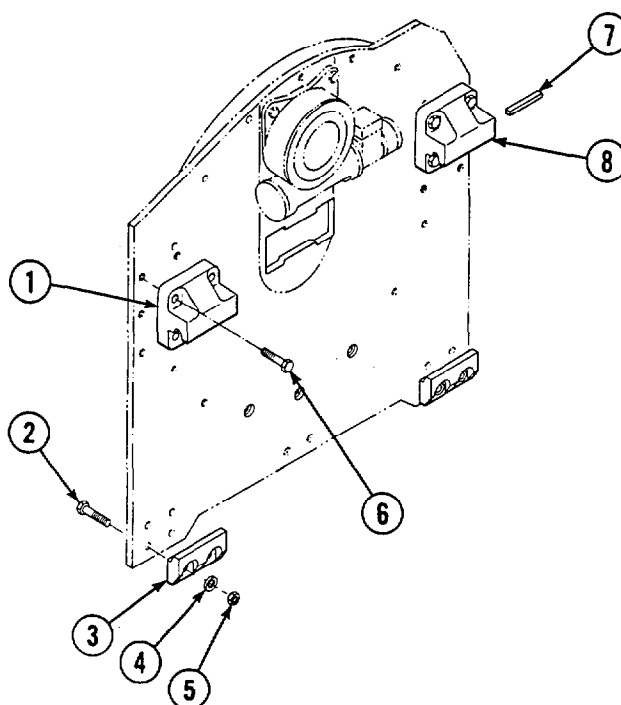
Quick Change Mounting Group



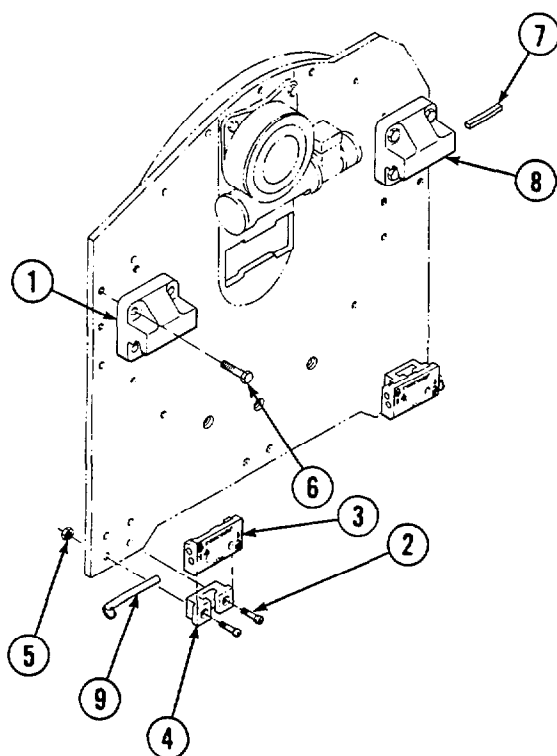
66F Class III, 0°			
REF	QTY	PART NO.	DESCRIPTION
		206741	Mounting Group
1	1	674024	Upper Hook – L. H.
2	6	766154	Capscrew
3	4	201572	Capscrew
4	2	206747	Spacer
5	2	675957	Hook
6	2	675958	Guide
7	4	781534	Nut
8	8	779010	Capscrew
9	1	206746	Center Spacer
10	2	678832	Pin
11	1	669344	Stop Kit
12	1	674025	Upper Hook – R. H.

Bolt-On Mounting Group

66F Class III, 4°			
REF	QTY	PART NO.	DESCRIPTION
		206737	Mounting Group
1	1	674024	Upper Hook – L. H.
2	4	675515	Capscrew
3	2	675969	Lower Hook
4	4	667225	Washer
5	4	781534	Nut
6	8	779010	Capscrew
7	1	669344	Stop Kit
8	1	674025	Upper Hook – R. H.



Quick Change Mounting Group



66F Class III, 4°			
REF	QTY	PART NO.	DESCRIPTION
		206740	Mounting Group
1	1	674024	Upper Hook – L. H.
2	4	769577	Capscrew
3	2	675957	Hook
4	2	675958	Guide
5	4	781534	Nut
6	8	779010	Capscrew
7	1	669344	Stop Kit
8	1	674025	Upper Hook – R. H.
9	2	678832	Pin

[illegible]

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