



Parts Manual

40D

Turnafork™ Clamps

Serial Numbers 681598 through 681610

Manual Number 682606

cascade®

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How To Use This Manual

Introduction

This manual illustrates service replacement parts for 40D Turnafork.

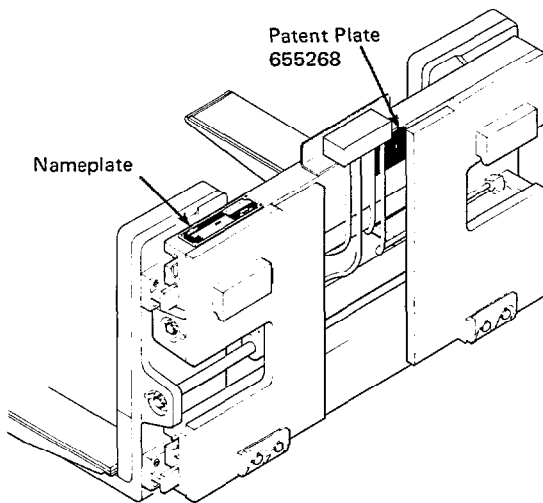
The parts manuals for attachments designed by the Application Engineering Department have an A.E.D. designation on the cover of the manual.

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 the steps below.

1. Locate the Nameplate

The nameplate is attached to the top left of the arm frame. If the nameplate is missing, all necessary information is stamped into the frame 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

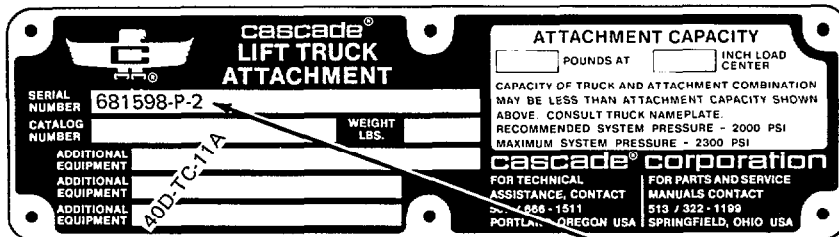
Retail Customers – Cascade Service Replacement Parts and Service Literature are sold through authorized lift truck dealers. To order, contact the lift truck dealer of your choice.

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

Cascade Parts Depot
2501 Sheridan Avenue
P.O. Box 360
Springfield, Ohio 45505
(513) 322-1199
Telex: 279563
FAX: 1-513-325-9270

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.



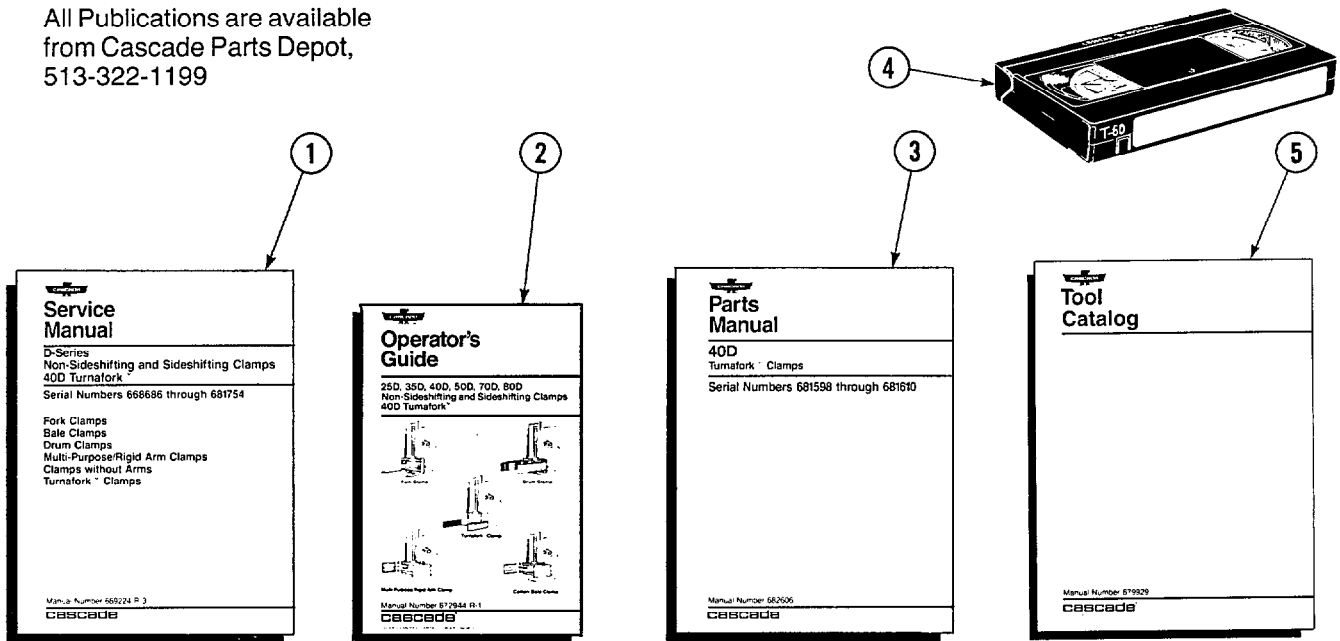
Serial Number Index

Serial Number	Model	Base Unit Group Page	Cylinder Page	Valve Group Page	Solenoid Adaption Page	Restrictor Cartridge Page	Contact Pad Group Page	Arm Group Page	Mounting Group Page	Backrest Group Page
681598	40D	1	2	3	4/5	7	7	8	9	10
681599	40D	1	2	3	4/5	7	7	8	9	10
681600	40D	1	2	3	4/5	7	7	8	9	10
681601	40D	1	2	3	4/5	7	7	8	9	10
681602	40D	1	2	3	4/5	7	7	8	9	10
681603	40D	1	2	3	4/5	7	7	8	9	10
681604	40D	1	2	3	4/5	7	—	8	9	10
681605	40D	1	2	3	4/5	7	7	8	9	10
681606	40D	1	2	3	4/5	7	7	8	9	10
681607	40D	1	2	3	4/5	7	7	8	9	10
681608	40D	1	2	3	4/5	7	7	8	9	10
681609	40D	1	2	3	4/5	7	7	8	9	10
681610	40D	1	2	3	4/5	7	7	8	9	10

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Publications

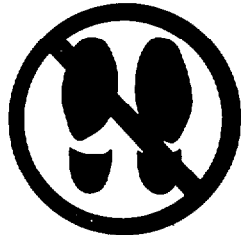
All Publications are available from Cascade Parts Depot, 513-322-1199



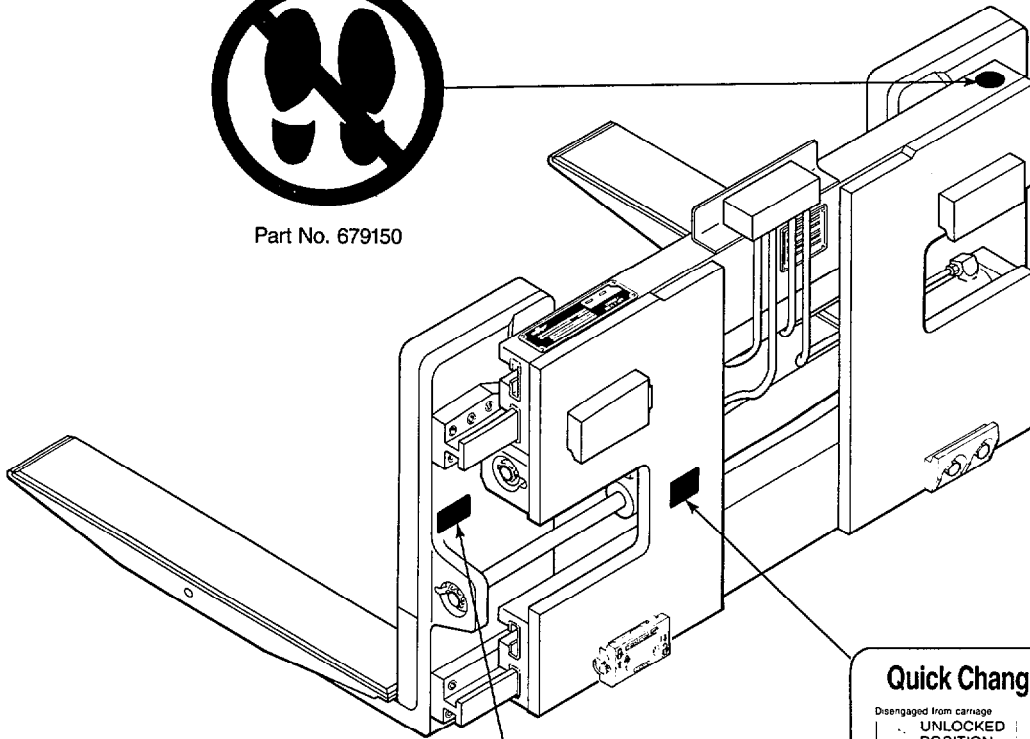
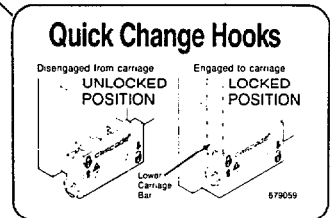
40D					
REF	PART NO.	DESCRIPTION	REF	PART NO.	DESCRIPTION
1	669224	Service Manual	4	680664	Servicing Cascade Cyl. VHS
2	672944	Operator's Guide		680665	Servicing Cascade Cyl. BETA
3	682606	Parts Manual		680666	Servicing Cascade Cyl. 3/4"
			5	679929	Tool Catalog

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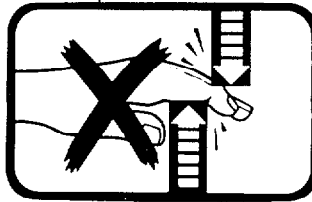
Safety Decals



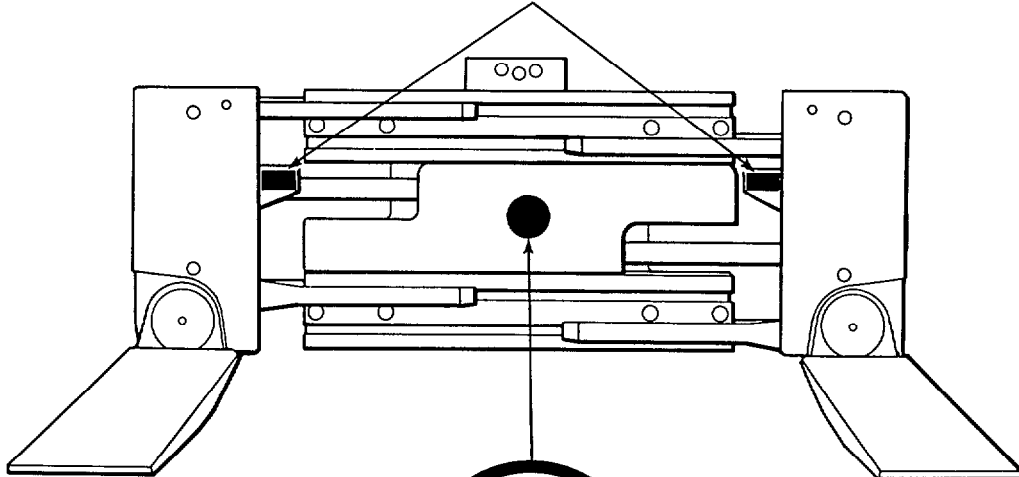
Part No. 679150



Part No. 679059

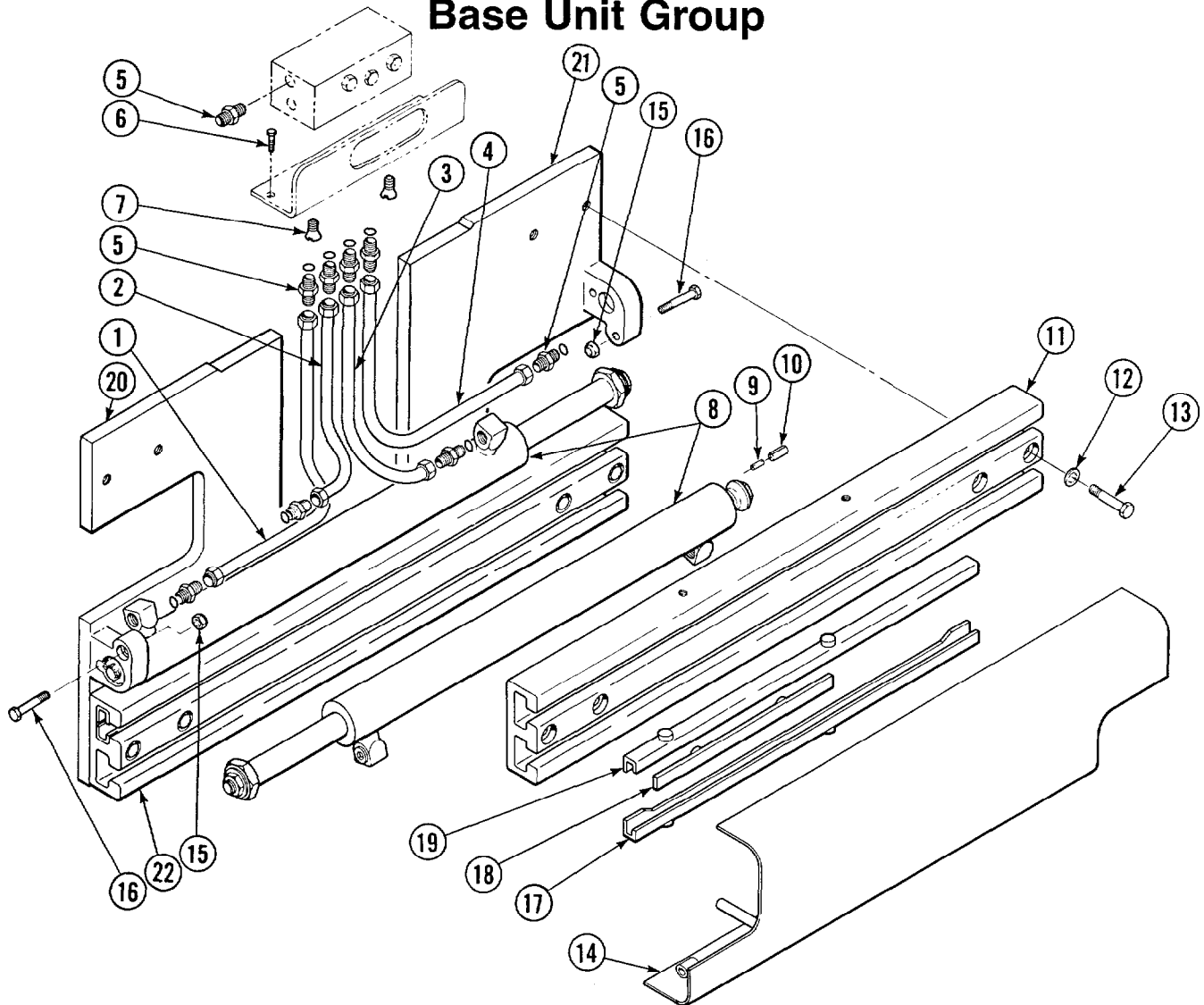


Part No. 665595
(4 Places)



Part No. 672046

Base Unit Group



40D

REF	QTY	PART NO.	DESCRIPTION
		681596	Base Unit Group – ITA II
		681597	Base Unit Group – ITA III
1	1	667680	Tube
2	1	667713	Tube
3	1	667712	Tube
4	1	667677	Tube
5	9	601377	Fitting, 8-8
6	3	669954	Capscrew, 3/8 UNC x .62
7	2	4749	Capscrew, 3/8 UNC x .62
8	2	555435	Cylinder
9	2	7882	Roll Pin – Inner
10	2	7961	Roll Pin – Outer
11	1	667659	Frame – Upper
12	8	667225	Washer
13	8	667644	Capscrew, 5/8 UNC x 3.25 GR5
14	1	678679	Bumper
15	2	665707	Nut
16	2	3660	Capscrew, 1/2 UNC x 2.75
17	4	667661	Bearing
18	4	667663	Bearing
19	4	667662	Bearing
20	1	680226	Mounting Plate – R.H. ITA II
	1	680628	Mounting Plate – R.H. ITA III
21	1	680225	Mounting Plate – L.H. ITA II
	1	680627	Mounting Plate – L.H. ITA III
22	1	674167	Frame – Lower

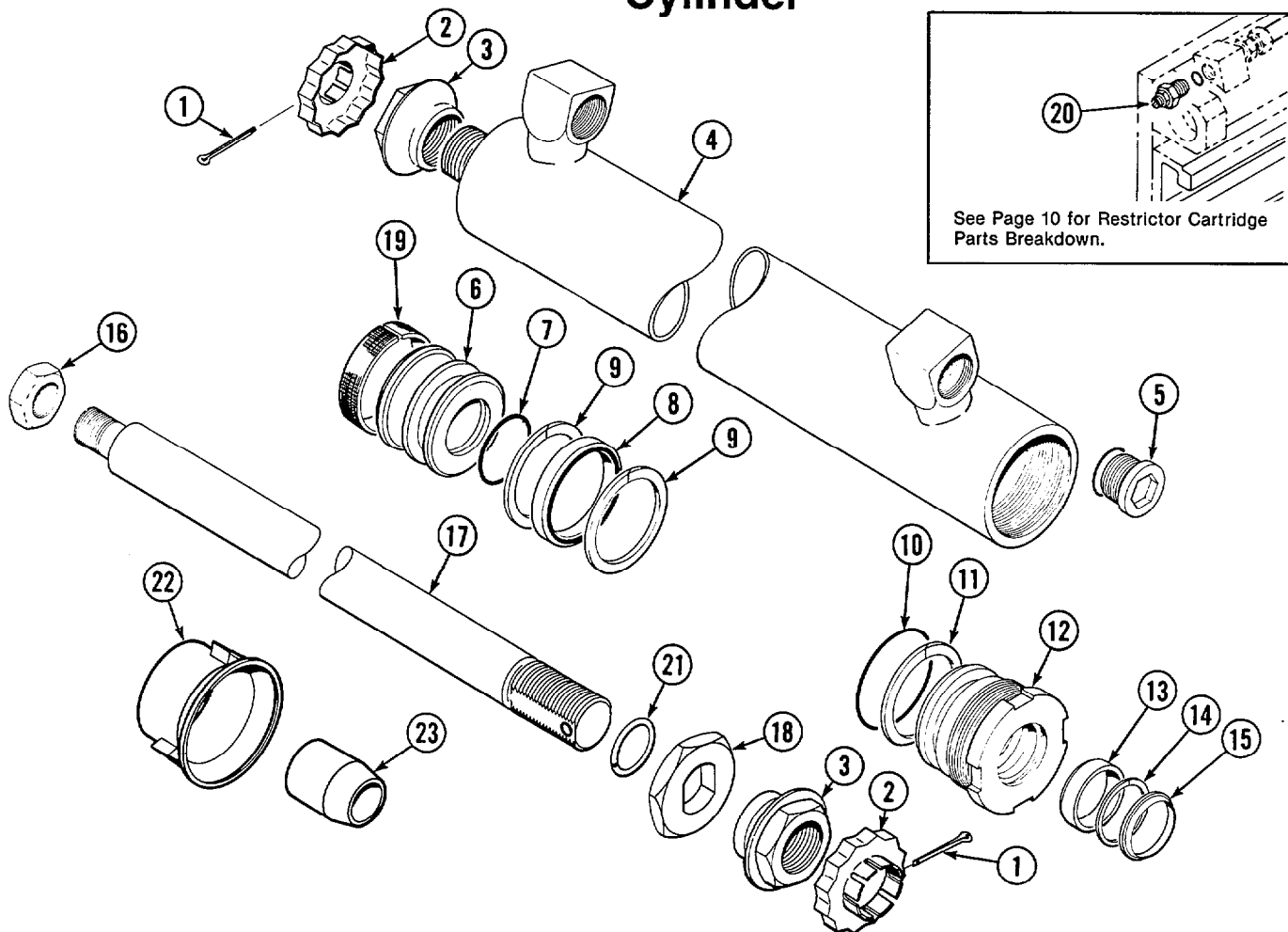
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682606

Cylinder

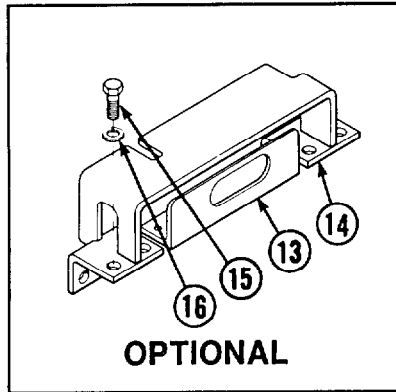
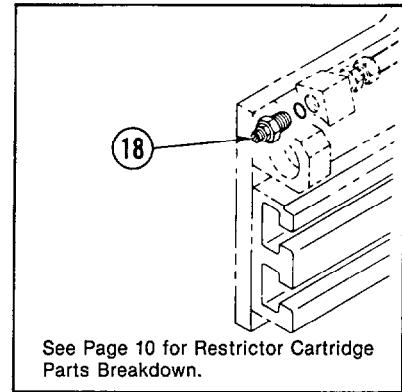
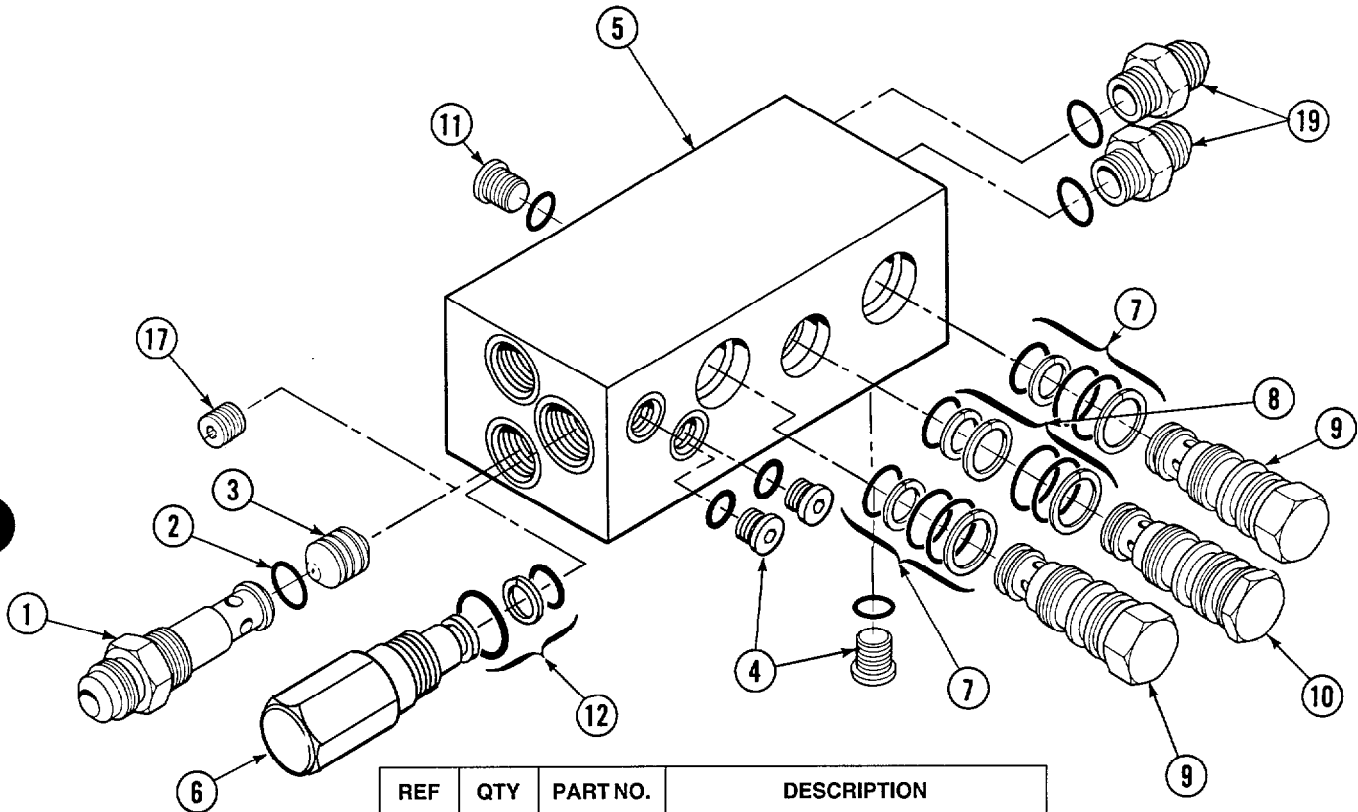


40D			
REF	QTY	PART NO.	DESCRIPTION
		555435	Cylinder Assembly
■ 1	2	6511	Cotter Pin
■ 2	2	667667	Retainer
■ 3	2	667668	Nut
4	1	555436	Shell
5	1	602580	Plug
6	1	670891	Piston
● 7	1	2716	O-Ring
● 8	1	662454	Seal
● 9	2	638249	Nylon Ring
● 10	1	2787	O-Ring
● 11	1	615130	Back-Up Ring
12	1	667917	Retainer
● 13	1	662448	Seal
● 14	1	638243	Nylon Ring
● 15	1	636853	Wiper
16	1	667623	Nut
17	1	555437	Rod
18	1	555439	Washer
● 19	1	660761	Bearing
◆ 20	2	667609	Restrictor Cartridge
21	1	555440	Retaining Ring
● 22	1	671048	Seal Loader
● 23	1	671051	Seal Loader
		667995	Service Kit
		668925	Nut Service Kit

- Included in Service Kit
- Included in Nut Service Kit
- ◆ Not included in Cylinder Assembly

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Valve Group Sideshift



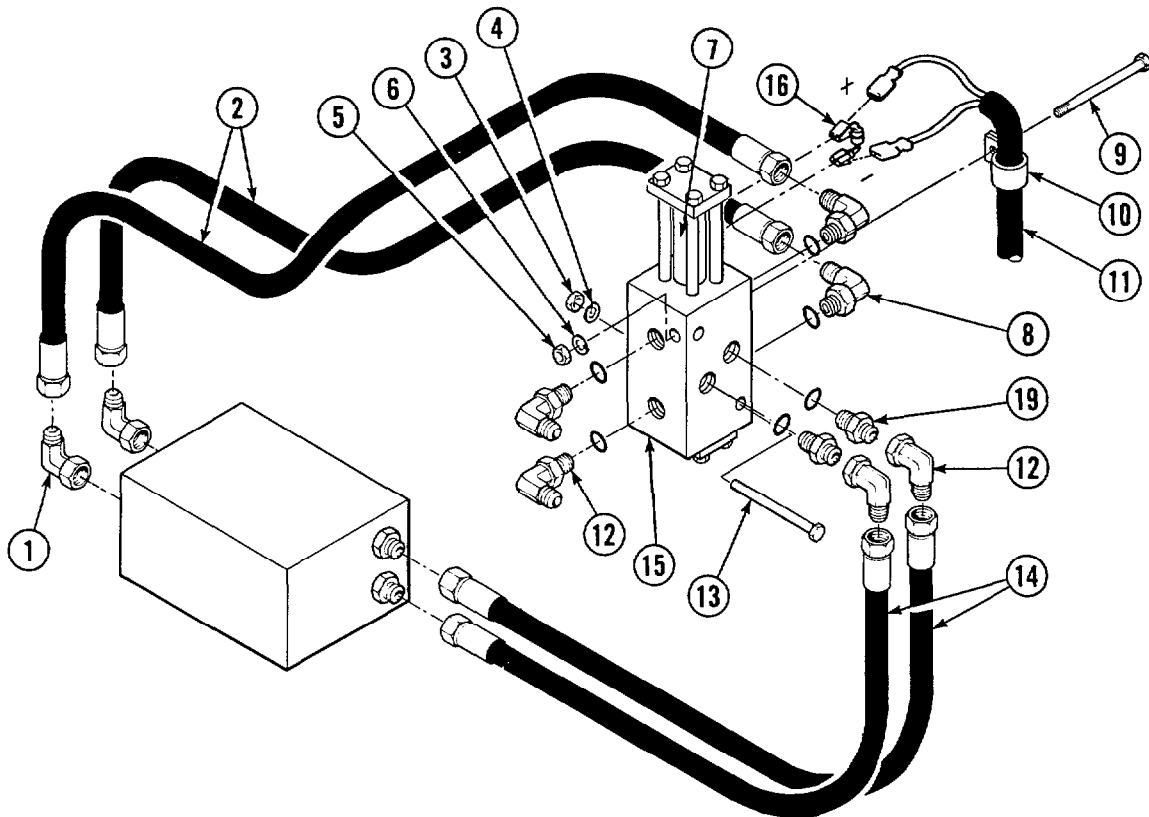
REF	QTY	PART NO.	DESCRIPTION
		676428	Valve Group – Sideshift
■		667475	Check Valve – Sideshift
1	1	667470	Special Fitting
● 2	1	2841	O-Ring
3	1	667471	Spool
4	3	609455	Plug
5	1	667476	Valve Body
6	1	667078	Relief Valve – 2000 PSI
● 7	2	667516	Service Kit
● 8	1	661347	Service Kit
9	2	659058	Check Valve – PO
10	1	678270	Check Valve – VPO
11	1	604510	Plug
12	1	667510	Seal Kit
13	1	669999	Bracket
14	1	670000	Guard – 40D
15	4	670004	Capscrew, 1/2 NC x 1.25
16	4	6232	Washer
◆ 17	1	676343	Regeneration Plug
18	2	667609	Restrictor Cartridge
19	2	604511	Fitting, 6-6

- Included in Service Kit 668868.
- Contains items 1 through 12 only.
- ◆ For eliminating regeneration circuit only.

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Solenoid Adaption Group

Clamps with Backrest



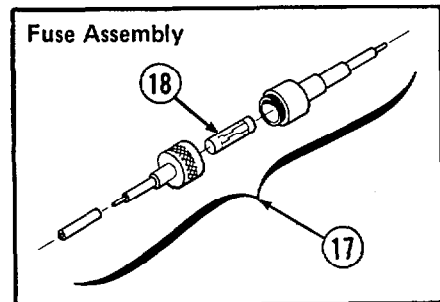
REF	QTY	PART NO.	DESCRIPTION
		671475	Solenoid Adaption Group
1	2	2680	Fitting, 6-6
2	2	2114	Hose
3	2	5900	Nut, 1/4 NC
4	2	6257	Lockwasher
5	1	●	Nut, 5/16 NC
6	1	●	Lockwasher
7	1	★	Coil
8	2	601676	Fitting, 6-6
9	1	●	Capscrew, 5/16 NC x 3.0
10	1	●	Clamp
11	1	●	Pigtail
12	2	605761	Fitting, 8-8
13	2	3565	Capscrew, 1/4 NC x 3.50
14	2	2204	Hose
■15	1	★	Solenoid Valve
16	1	669432	Diode
17	1	677573	Fuse Assembly
18	1	677490	Fuse, 7.5 amp
19	2	662187	Fitting, 8-6

● Customer supplied.

■ Includes item 7.

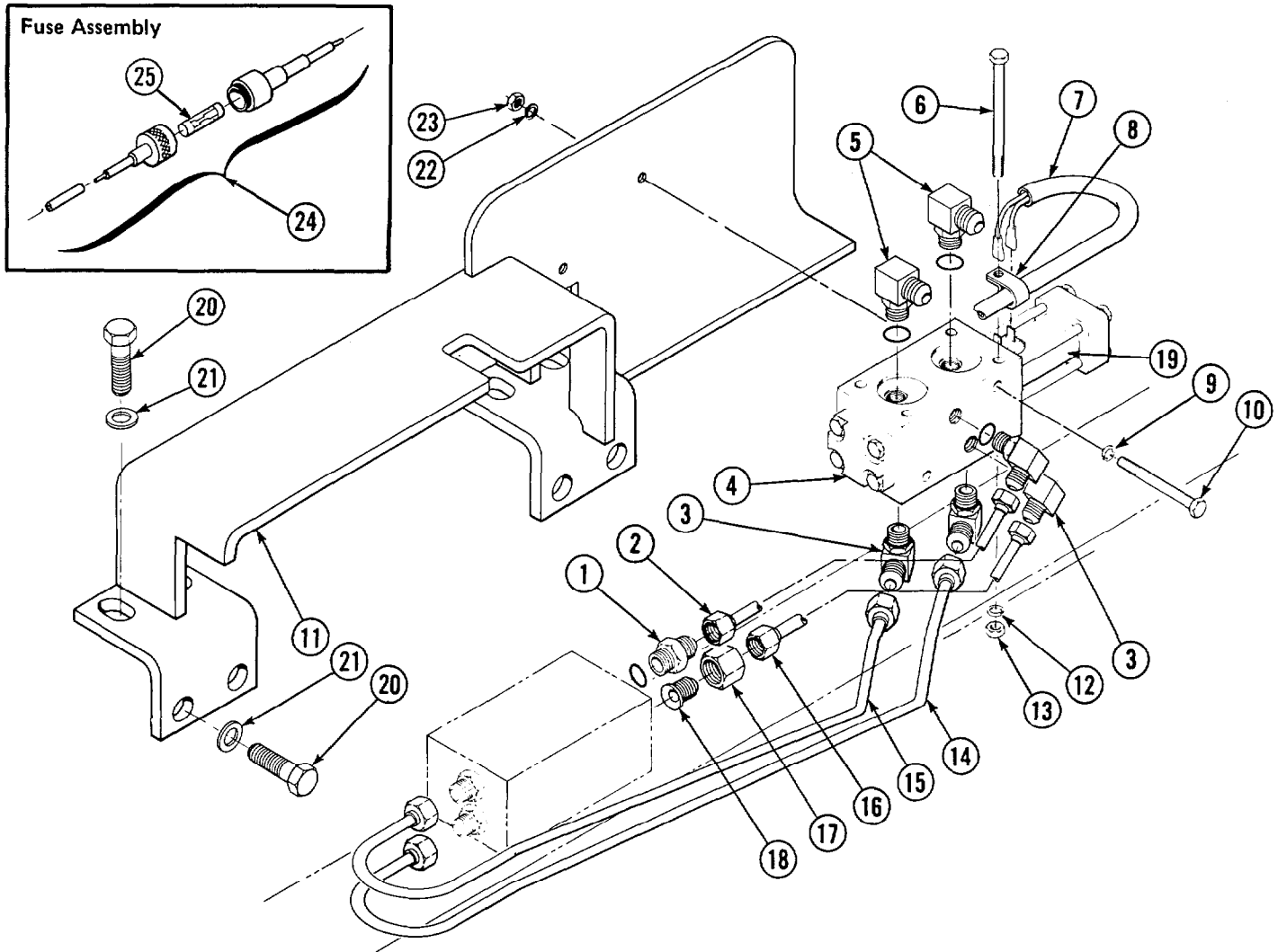
★ See page 6 for parts breakdown.

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Solenoid Adaption Group

Clamps without Backrest

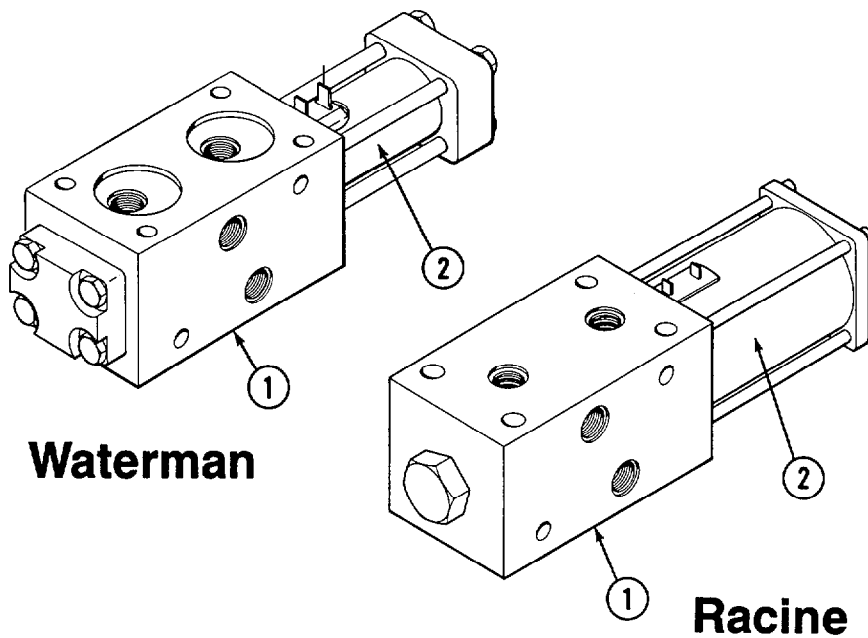


REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		669816	Solenoid Adaption	13	1	•	Nut, 5/16 NC
1	1	611288	Fitting, 6-8	14	1	671255	Tube
2	1	671252	Tube	15	1	671254	Tube
3	1	601676	Fitting, 6-6	16	1	671253	Tube
4	1	★	Solenoid Valve	17	1	2618	Nut
5	2	651303	Fitting, 8-8	18	1	2671	Fitting, 8-6
6	1	•	Capscrew, 5/16 NC x 3.0	19	1	★	Coil
7	1	•	Pigtail	20	4	670004	Capscrew
8	1	•	Clamp	21	4	6232	Washer
9	2	6257	Lockwasher	22	2	6201	Washer
10	2	3563	Capscrew, 1/4 NC x 3.0	23	2	5900	Nut, 1/4 NC
11	1	672603	Bracket	24	1	677573	Fuse Assembly (7.5 Amp)
12	1	•	Lockwasher	25	1	677490	Fuse, 7.5 Amp

- Customer supplied.
- Includes item 19.
- ★ See page 6 for parts breakdown.

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Solenoid Valves

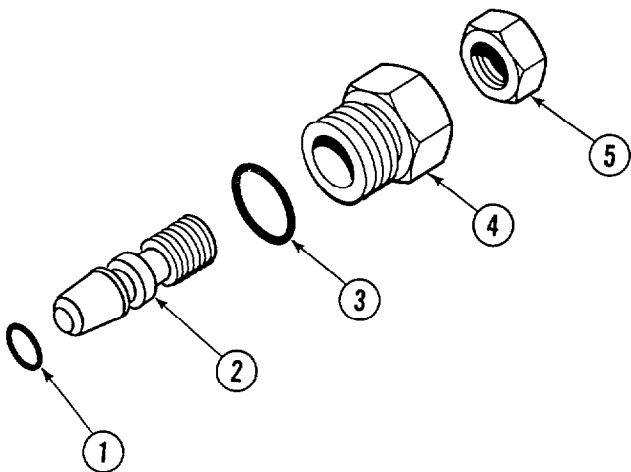


NOTE: Racine and Waterman Solenoid Valve assemblies are interchangeable as a unit. Coils must match valve.

REF	QTY	Waterman PART NO.	Racine PART NO.	DESCRIPTION
1	1	614089	614089	Solenoid Valve – 12V
	1	614091	614091	Solenoid Valve – 24V
	1	614092	614092	Solenoid Valve – 36V
	1	614093	614093	Solenoid Valve – 48V
	1	614094	—	Solenoid Valve – 72V
2	1	611458	665044	Coil – 12V
	1	611460	665045	Coil – 24V
	1	611461	665046	Coil – 36V
	1	614097	665047	Coil – 48V
	1	614098	—	Coil – 72V

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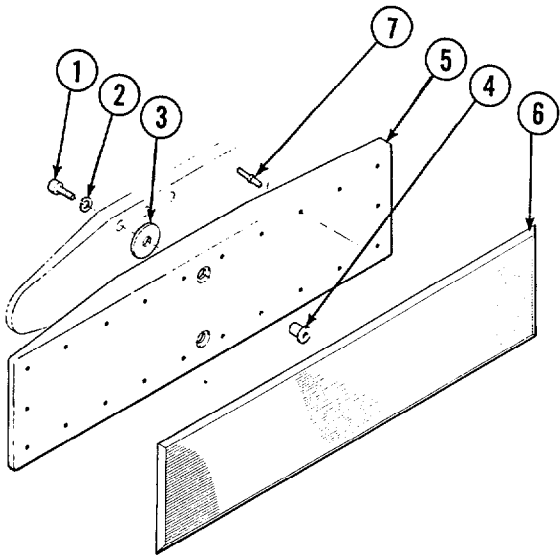
Restrictor Cartridge



40D			
REF	QTY	PART NO.	DESCRIPTION
	1	667609	Restrictor Cartridge
1	1	2701	O-Ring
2	1	667611	Plunger
3	1	2841	O-Ring
4	1	667610	Plug-Special
5	1	5716	Jam Nut

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Contact Pad Group

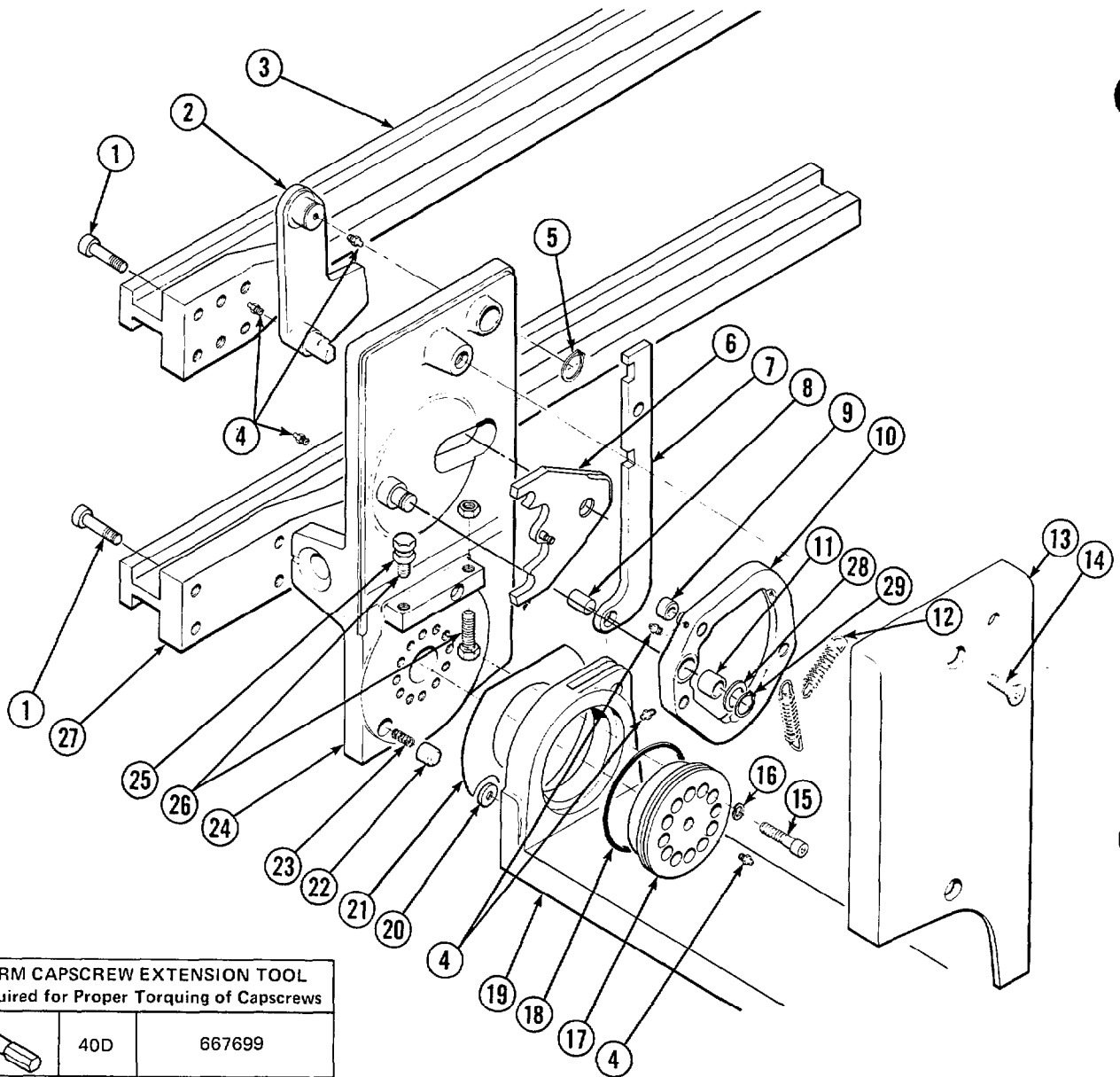


40D					
REF	QTY	10" x 36" PART NO.	10" x 42" PART NO.	10" x 48" PART NO.	DESCRIPTION
		669701	669705	669709	Contact Pad Group
1	4	4305	4305	4305	Capscrew 1/2 NF x 1.25
2	4	6374	6374	6374	Lockwasher
3	4	15797	15797	15797	Pad
4	4	15809	15809	15809	Pin
5	1	669702	669706	669710	Contact Plate - R.H.
	1	669703	669707	669711	Contact Plate - L.H.
6	2	669704	669708	669712	Contact Pad
7	28	667843	—	—	• Rivet
	36	—	667843	—	• Rivet
	44	—	—	667843	• Rivet

• Steel self-plugging rivets with steel mandrels, 3/16 dia. x 3/8-1/2 grip.

2650g-134/8

Arm Group



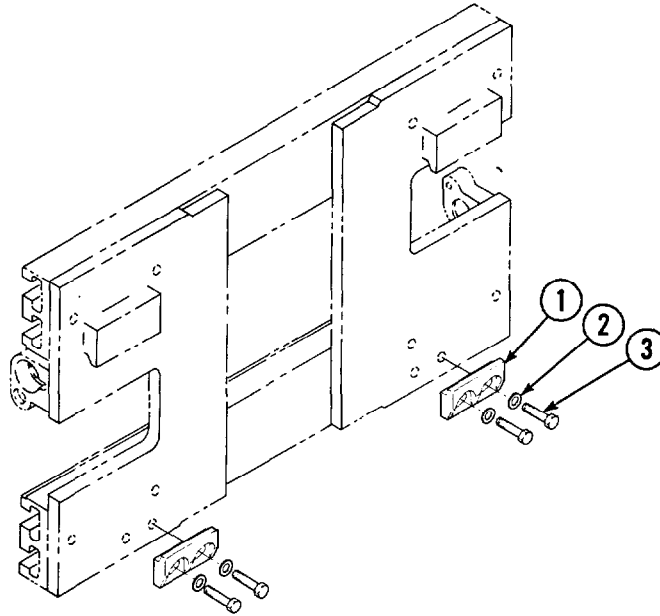
ARM CAPSCREW EXTENSION TOOL Required for Proper Torquing of Capscrews		
	40D	667699

40D							
REF	QTY	PART NO.	DESCRIPTION	REF	QTY	PART NO.	DESCRIPTION
		672033	Arm Group – R.H.●	14	2	4780	Capscrew, 5/8 UNC x 1.25 GR8
		672032	Arm Group – L.H.●	15	12	4309	Capscrew, 1/2 UNF x 2.25
1	10	607105	Capscrew, 3/4 UNC x 2.00 GR8	16	12	6374	Lockwasher
2	1	672041	Actuator – R.H.●	17	1	669205	Bearing
	1	672040	Actuator – L.H.●	18	1	2815	O-Ring
3	1	669197	Arm Bar – Upper	19	1	622674	Arm – R.H.●
4	6	7401	Grease Fitting		1	622675	Arm – L.H.●
5	1	7192	Snap Ring	20	1	621248	Bushing
6	1	600305	Selector	21	1	602025	Wear Plate
7	1	600315	Crank	22	1	600318	Detent Pin
8	1	600316	Pin	23	1	600319	Detent Spring
9	2	600313	Bushing	24	1	672037	Arm Carrier – R.H.●
10	1	672043	Bell Crank Assembly		1	672034	Arm Carrier – L.H.●
11	1	600312	Bushing	25	2	5721	Nut
12	2	672047	Spring	26	2	3385	Capscrew, 3/4 UNF x 1.75
13	1	672051	Cover – R.H.●	27	1	669200	Arm Bar – Lower
	1	672050	Cover – L.H.●	28	1	672045	Washer
				29	1	3128	Snap Ring

● As viewed from the drivers seat.

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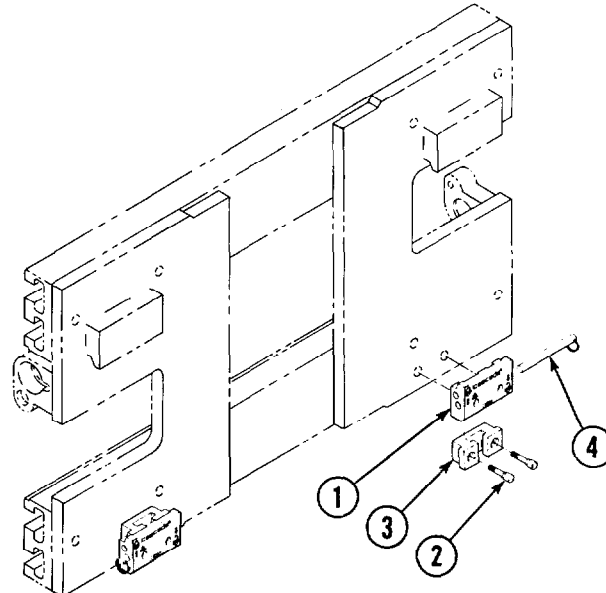
Bolt-on Mounting Group



REF	QTY	ITA II PART NO.	ITA III PART NO.	DESCRIPTION
		678934	678935	Lower Hook Group
1	1	675968	675969	Hook
2	4	667225	667225	Washer
3	4	667369	667369	Capscrew

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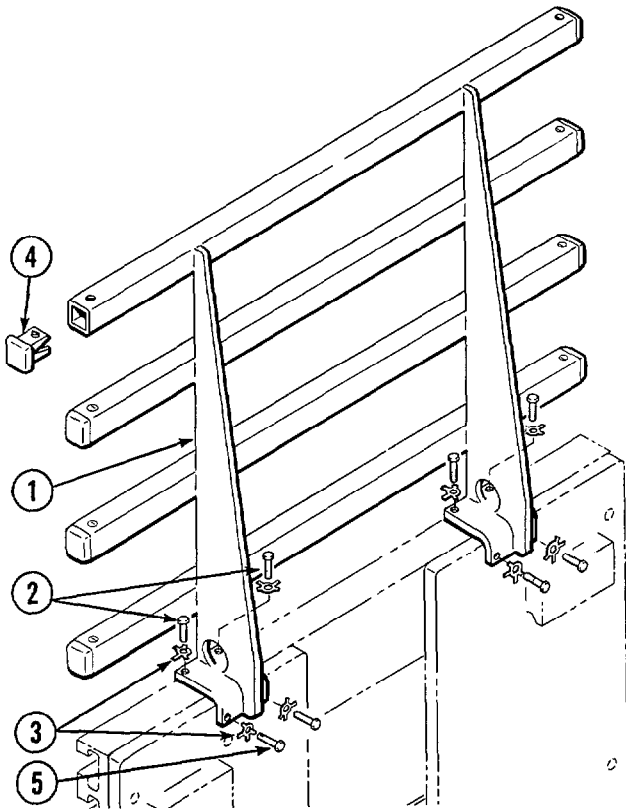
Quick Change Mounting Group



REF	QTY	ITA II PART NO.	ITA III PART NO.	DESCRIPTION
		678833	678834	Lower Hook Group
1	1	675514	675957	Hook
2	2	678942	678943	Capscrew
3	4	675515	675958	Guide
4	2	678832	678832	Pin

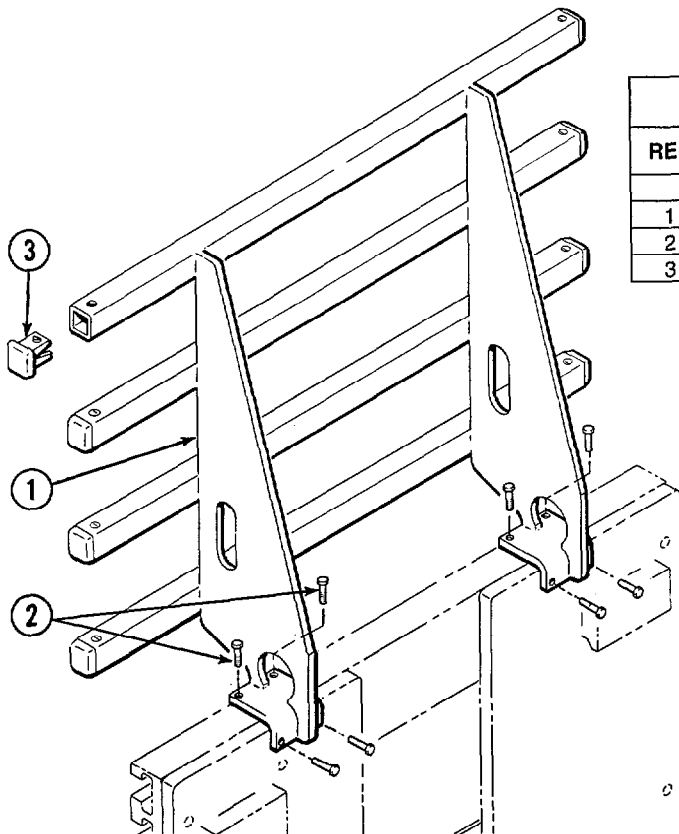
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Backrest Groups



40D			
REF	QTY	PART NO.	DESCRIPTION
		669767	Backrest Group
1	1	670027	Backrest
2	4	661742	Capscrew, 1/2 NC x 1.25
3	8	674364	Lock Tab
4	8	674356	Tube End
5	4	601854	Capscrew

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40D			
REF	QTY	PART NO.	DESCRIPTION
		672532	Backrest Group
1	1	672533	Backrest
2	8	670004	Capscrew, 1/2 NC x 1.25
3	8	674356	Tube End

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Recommended Spare Parts List

40D Turnafork				
PART NO.	DESCRIPTION	ATTACHMENTS SERVICED		
		1-5	6-19	20-50
	BASIC UNIT			
667677	Tube	0	1	2
667712	Tube	0	1	2
667713	Tube	0	1	2
667680	Tube	0	1	2
667659	Frame - Upper	0	1	2
674167	Frame - Lower	0	1	2
678679	Bumper	0	0	1
667661	Bearing, Heavy Duty - Black	4	8	12
667663	Bearing - Black	4	8	12
667662	Bearing, Heavy Duty - Black	4	8	12
599489	Graphite Lube - 16 oz. Aerosol Can	2	4	6
	CYLINDER			
555435	Cylinder Assembly	0	0	1
555436	Shell	0	1	1
670891	Piston	0	0	2
667917	Retainer	0	0	2
555437	Rod	0	1	2
668925	Nut Kit	0	2	4
667995	Service Kit	2	4	8
	CHECK VALVE			
667475	Check Valve - Sideshift	0	0	1
667516	Service Kit - PO	2	4	6
661347	Service Kit - VPO	1	2	4
659058	Check Valve - PO	1	1	2
678270	Check Valve - VPO	1	1	2
668868	Service Kit - Sideshift	1	2	3
	MOUNTING - Bolt-on			
667369	Capscrew	0	4	8
675968	Hook - ITA II	0	4	8
675969	Hook - ITA III	0	4	8
	MOUNTING - Quick Change			
678942	Capscrew - ITA II	4	8	12
678943	Capscrew - ITA III	4	8	12
675514	Hook - ITA II	2	4	6
675957	Hook - ITA III	2	4	6
675515	Guide - ITA II	2	4	6
675958	Guide - ITA III	2	4	6
678832	Pin	2	4	8
	ARMS			
607105	Capscrews	24	24	24
	TOOL			
667699	Arm Capscrew Extension	1	2	2
	PAINT, CASCADE YELLOW			
668209	12 oz. Aerosol Can	1	1	1
	PUBLICATIONS			
682606	Parts Manual	1	1	1
669224	Service Manual	1	1	1
672944	Operators Guide	1	1	1
679929	Tool Catalog	1	1	1
	Servicing Cascade Cylinder Video			
680664	VHS			
680665	BETA	1	1	1
680666	3/4			

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Do you have questions you need answered right now? Call your nearest Cascade Parts Department.

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