

Parts Manual

35E/45E QFM™ Push/Pull and Load Push

Manual Number 688058 R-1

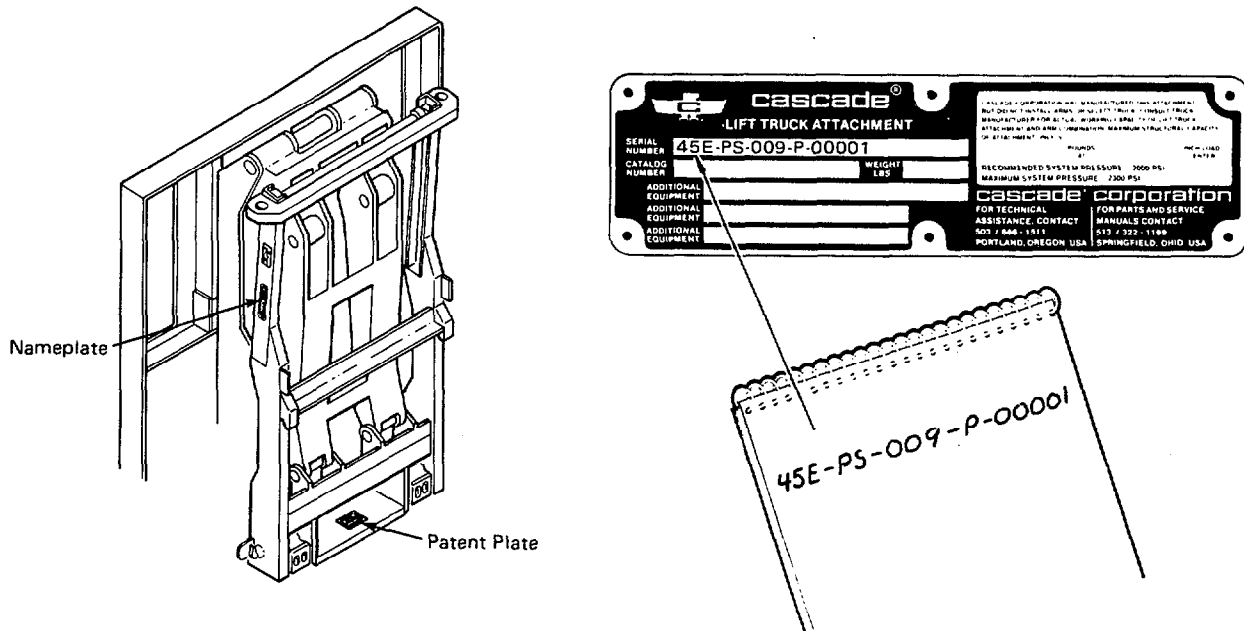
cascade

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About This Manual

Introduction

This manual shows the parts breakdown for specific 35E/45E QFM™ Push/Pull and Load Push serial numbers. To find the correct pages for your attachment, locate the nameplate on the upper left hand side of the frame. If the nameplate is missing all necessary information is stamped into the frame at the same location. Locate your serial number on the following pages. To the right of the serial number you will find the page numbers that apply to your unit.



Ordering Parts

Customers - Cascade parts, service literature and videos are available through authorized lift truck dealers. To order, contact the lift truck dealer of your choice.

Lift Truck Dealers - To order parts, service literature or videos contact:

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

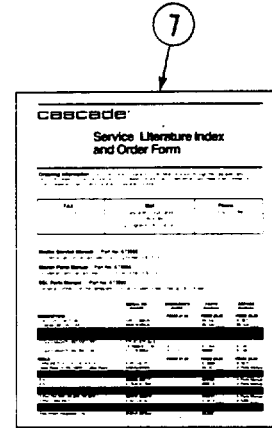
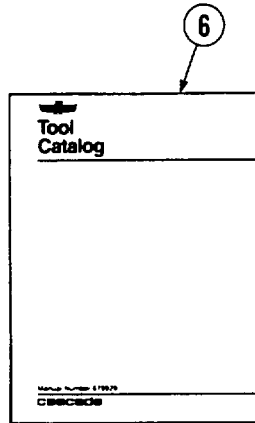
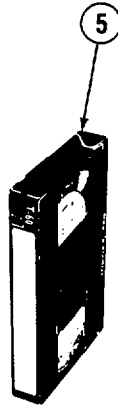
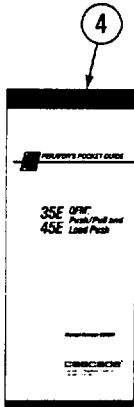
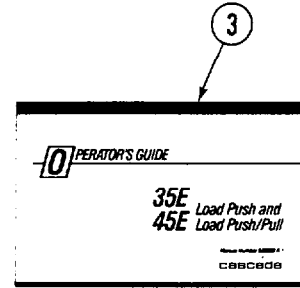
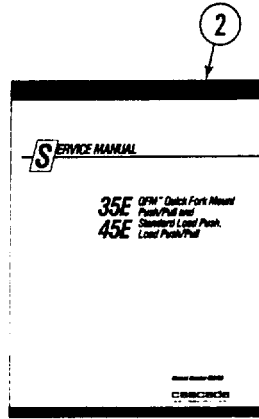
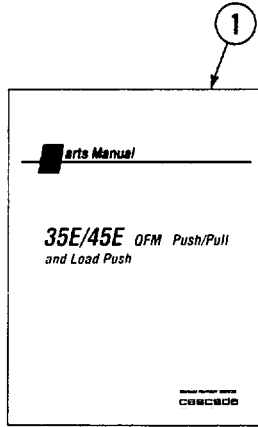
Serial Number Index

Serial Number	Platen Group Page	Frame Group Page	Mechanism Group Page	Cylinder Group Page	Hydraulic Group Page	Faceplate Group Page	Faceplate Extension Page	Hydraulic Stop Page
35E-QB-001	1	2	6	7	13	20	-	-
35E-QB-002	1	2	6	7	13	20	-	-
35E-QB-003	-	2	6	7	13	20	-	-
35E-QB-004	1	2	6	7	13	20	-	-
35E-QB-005	1	2	6	7	13	20	-	25
35E-QB-007	1	2	6	7	13	20	24	-
35E-QB-008	-	3	6	7	13	20	-	-
35E-QB-010	1	2	6	7	13	20	-	25
35E-QB-013	1	2	6	7	13	20	24	-
35E-QB-016	1	2	6	7	15	21	-	-
35E-QB-017	1	4	6	7	15	21	-	-
35E-QB-018	1	2	6	7	15	21	-	-
35E-QB-019	1	2	6	7	15	21	-	-
35E-QB-024	-	3	6	7	15	21	-	-
35E-QB-025	1	2	6	7	15	21	-	-
35E-QB-034	1	2	6	7	15	21	24	25
35E-QB-036	1	2	6	7	15	21	-	25
35E-QB-038	1	2	6	9	15	21	-	-
35E-QB-039	1	2	6	9	15	21	-	-
35E-QB-040	1	2	6	9	15	21	-	-
35E-QB-043	1	2	6	9	15	21	-	25
35E-QB-045	1	2	6	9	15	21	24	-
35E-QB-050	1	2	6	11	15	21	-	-
35E-QB-051	1	2	6	11	15	21	-	-
35E-QB-052	1	2	6	11	15	21	-	-
35E-QB-054	-	3	6	9	15	21	-	-
35E-QB-055	-	2	6	9	15	21	-	-
35E-QB-063	1	2	6	11	15	21	-	25
35E-QB-069	1	2	6	11	15	21	-	-
35E-QB-070	1	2	6	11	15	21	-	-
35E-QB-072	1	2	6	12	15	21	-	-
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35E-QB-076	1	2	6	11	15	21	-	-
35E-QB-078	1	2	6	12	15	21	-	-
35E-QB-083	1	2	6	11	15	21	24	25
35E-QB-087	-	3	6	11	15	21	-	-
35E-YB-001	1	2	6	7	15	22	-	-
35E-YB-002	-	2	6	7	15	22	-	-
35E-YB-004	1	2	6	7	14	22	-	-
35E-YB-005	1	2	6	7	14	22	-	-
35E-YB-006	1	2	6	7	14	22	-	-
35E-YB-007	1	2	6	7	14	22	-	-
35E-YB-008	-	3	6	7	14	22	-	-
35E-YB-009	1	2	6	7	17	22	-	-
35E-YB-010	-	3	6	7	17	22	-	-
35E-YB-011	1	2	6	7	17	22	-	-
35E-YB-014	1	3	6	9	17	22	-	-
35E-YB-016	1	2	6	9	17	22	-	-
35E-YB-017	1	2	6	9	17	22	-	-
35E-YB-018	-	2	6	9	17	22	-	-
35E-YB-020	1	2	6	11	17	22	-	-
35E-YB-021	1	2	6	11	17	22	-	-
35E-YB-022	-	3	6	11	17	22	-	-
45E-QB-001	1	2	6	8	13	20	-	-
45E-QB-002	1	2	6	8	13	20	-	-
45E-QB-003	-	2	6	8	13	20	-	-
45E-QB-004	1	2	6	8	13	20	-	-
45E-QB-005	1	4	6	8	16	20	-	-
45E-QB-006	1	2	6	8	15	21	-	-

Serial Number Index

Serial Number	Platen Group Page	Frame Group Page	Mechanism Group Page	Cylinder Group Page	Hydraulic Group Page	Faceplate Group Page	Faceplate Extension Page	Hydraulic Stop Page
45E-QB-007	1	2	6	8	15	21	-	-
45E-QB-008	1	2	6	8	15	21	-	-
45E-QB-009	1	4	6	8	15	21	-	-
45E-QB-010	1	2	6	8	15	21	24	-
45E-QB-011	1	2	6	8	15	21	24	-
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45E-QB-013	1	2	6	8	15	21	-	25
45E-QB-014	1	4	6	8	15	21	-	-
45E-QB-015	-	5	6	8	15	21	-	-
45E-QB-016	1	2	6	10	15	21	-	-
45E-QB-017	1	2	6	10	15	21	-	-
45E-QB-018	1	2	6	10	15	21	-	-
45E-QB-021	1	2	6	8	15	21	-	-
45E-QB-022	1	2	6	8	15	21	-	-
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45E-QB-024	1	4	6	10	15	21	-	-
45E-QB-025	-	3	6	10	15	21	-	-
45E-QB-026	1	2	6	12	15	21	-	-
45E-QB-027	1	2	6	12	15	21	-	-
45E-QB-028	1	2	6	12	15	21	-	-
45E-QB-029	1	2	6	10	15	21	-	-
45E-QB-030	1	2	6	10	15	21	-	-
45E-QB-031	1	4	6	12	15	21	-	-
45E-QB-032	1	4	6	12	15	21	-	-
45E-QB-034	-	5	6	12	15	21	-	-
45E-YB-001	-	5	6	8	14	22	-	-
45E-YB-002	-	3	6	8	14	22	-	-
45E-YB-003	1	4	6	8	14	22	-	-
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45E-YB-014	1	2	6	10	17	22	-	-
45E-YB-015	-	3	6	10	17	22	-	-
45E-YB-016	1	4	6	10	17	22	-	-
45E-YB-017	1	2	6	12	17	22	-	-
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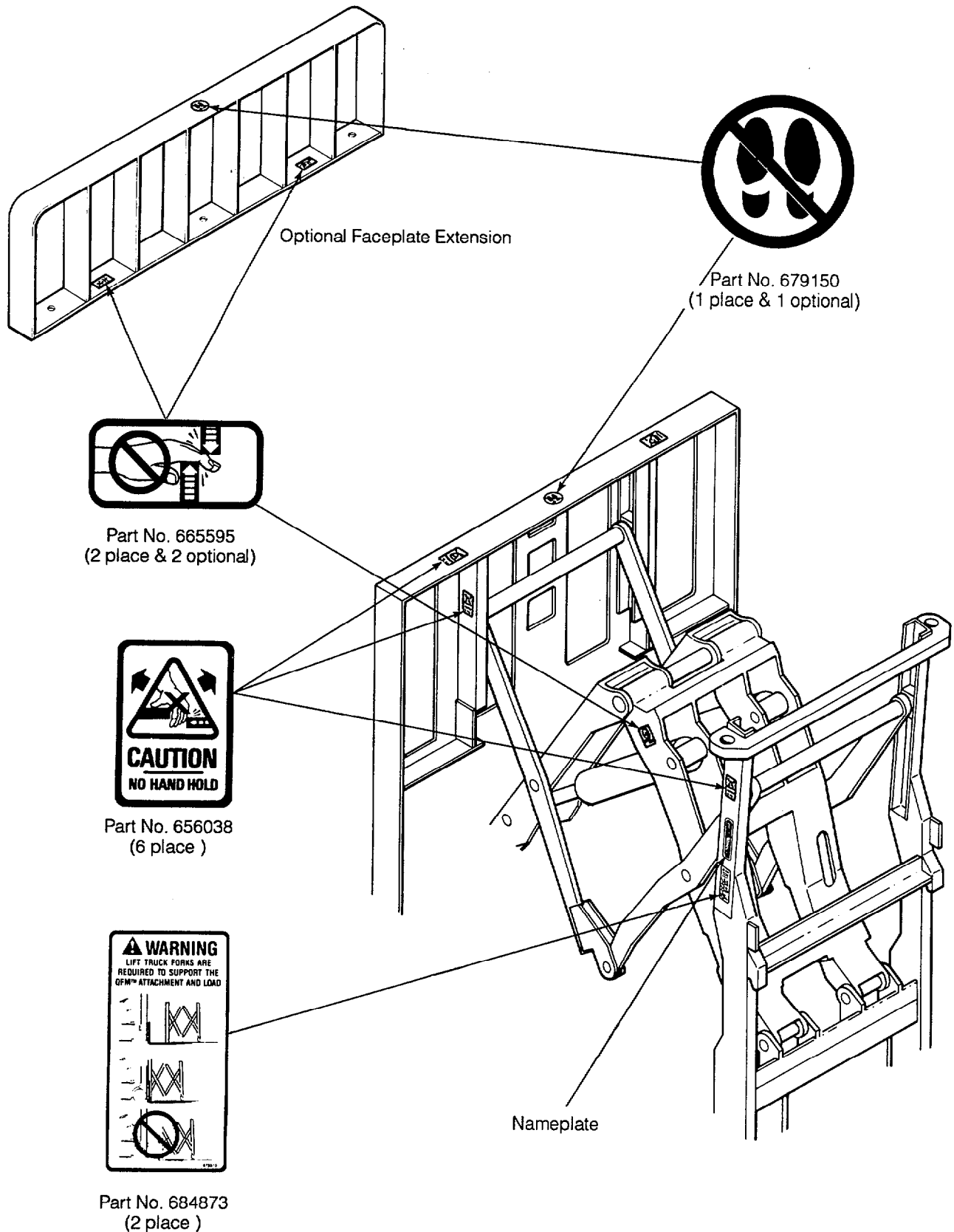
Publications



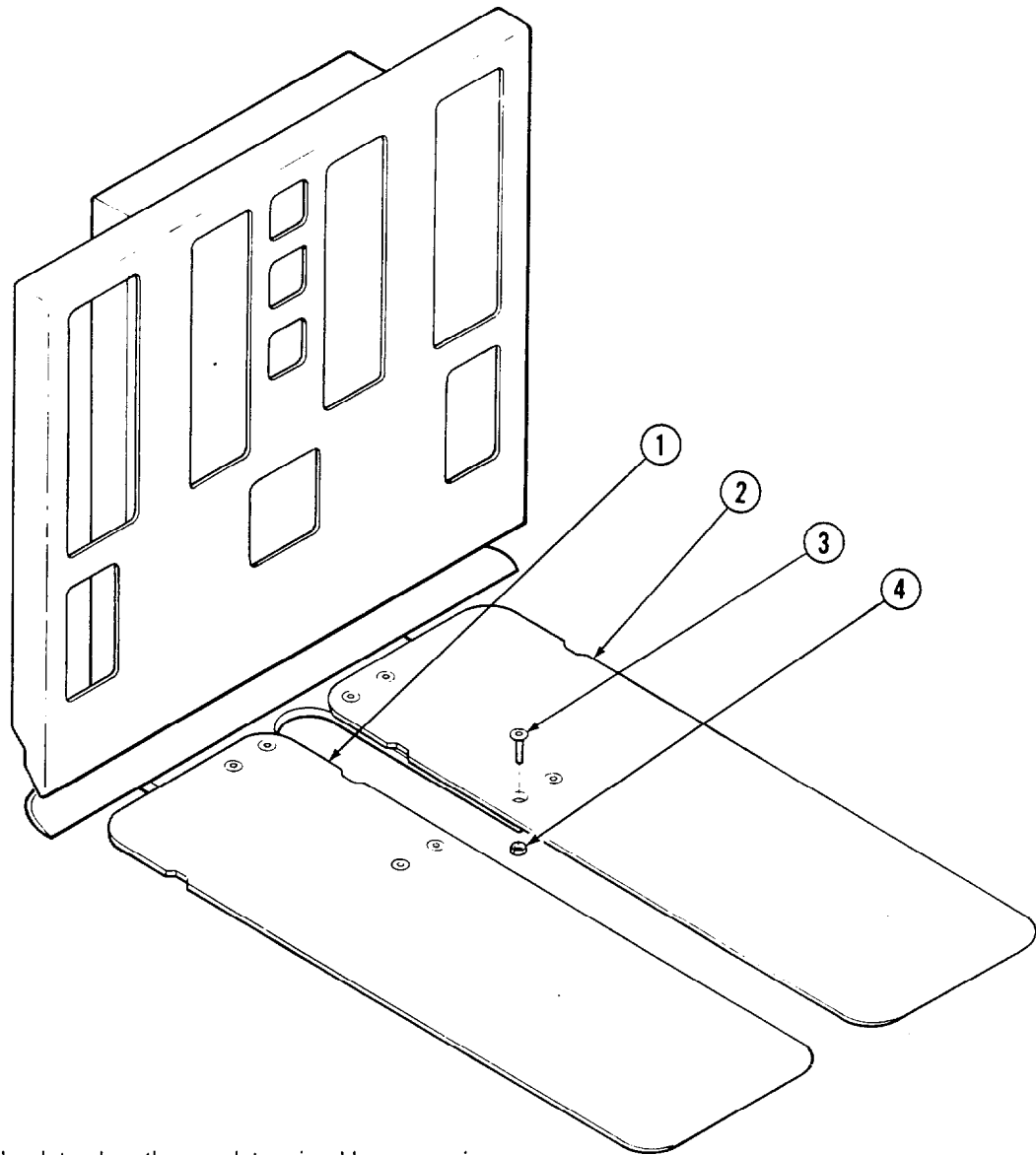
35E/45E

REF	PART NO	DESCRIPTION
1	688058	Parts Manual
2	686455	Service Manual
3	684945	Operator Guide
4	685531	Operators Pocket Guide
5	680666	Servicing Cascade Cylinders - 3/4"
5	680664	Servicing Cascade Cylinders - VHS
5	680665	Servicing Cascade Cylinders - BETA
6	679929	Tool Catalog
7	673964	Literature Index Order Form

Decals Quick Fork Mount (QFM)



Platens



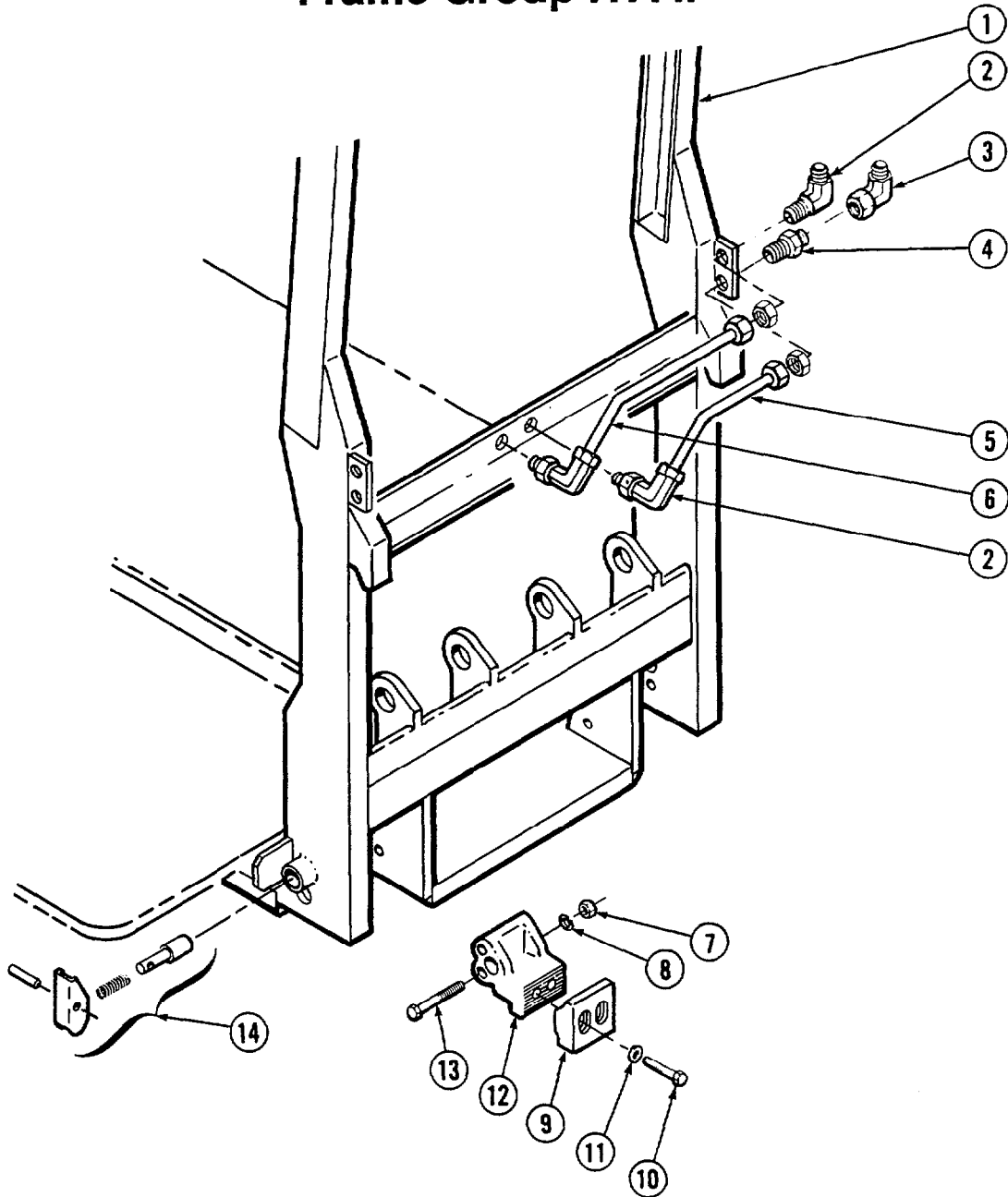
Note: Usable platen lengths are determined by measuring platen from end to end.

35E

REF	QTY	PART NO	DESCRIPTION
		683196.....	Platen Group-14"x48"
		683199.....	Platen Group-15"x48"
		683202.....	Platen Group-18"x48"
1.....	1.....	683198.....	Platen R.H.-14"x48"
1.....	1.....	683201.....	Platen R.H.-15"x48"
1.....	1.....	683204.....	Platen R.H.-18"x48"
2.....	1.....	683197.....	Platen L.H.-14"x48"
2.....	1.....	683200.....	Platen L.H.-15"x48"
2.....	1.....	683203.....	Platen L.H.-18"x48"
3.....	8.....	768704.....	Capscrew
4.....	8.....	683170.....	Nut

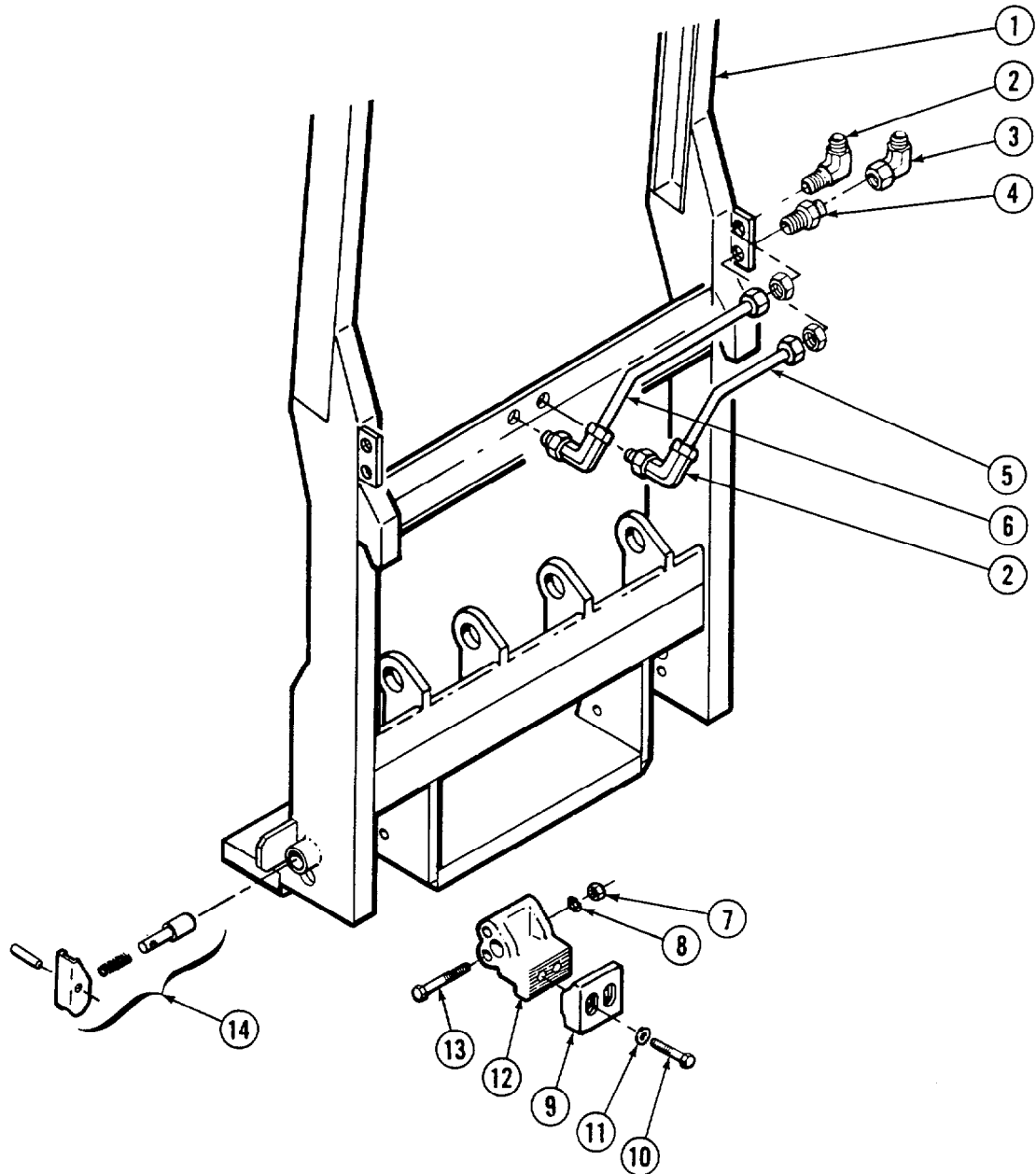
45E

REF	QTY	PART NO	DESCRIPTION
		684909.....	Platen Group-14"x48"
		683205.....	Platen Group-15"x48"
		683208.....	Platen Group-18"x48"
1.....	1.....	684911.....	Platen R.H.-14"x48"
1.....	1.....	683207.....	Platen R.H.-15"x48"
1.....	1.....	683210.....	Platen R.H.-18"x48"
2.....	1.....	684910.....	Platen L.H.-14"x48"
2.....	1.....	683206.....	Platen L.H.-15"x48"
2.....	1.....	683209.....	Platen L.H.-18"x48"
3.....	8.....	768704.....	Capscrew
4.....	8.....	683170.....	Nut



REF	QTY	PART NO	DESCRIPTION
		683185.....	Frame Group ITA II
1.....	1.....	682573.....	Frame
2.....	3.....	2453.....	Fitting, 6-6
3.....	1.....	2680.....	Fitting, 6-6
4.....	1.....	2375.....	Fitting, 6-6
5.....	1.....	683186.....	Tube
6.....	1.....	683187.....	Tube
7.....	2.....	763025.....	Nut
8.....	2.....	681473.....	Lockwasher
9.....	2.....	676280.....	Hook
10.....	4.....	768554.....	Capscrew
11.....	4.....	667910.....	Washer
12.....	2.....	683188.....	Pivot Hook
13.....	2.....	768837.....	Capscrew
14.....	2.....	683189.....	Pin Assembly

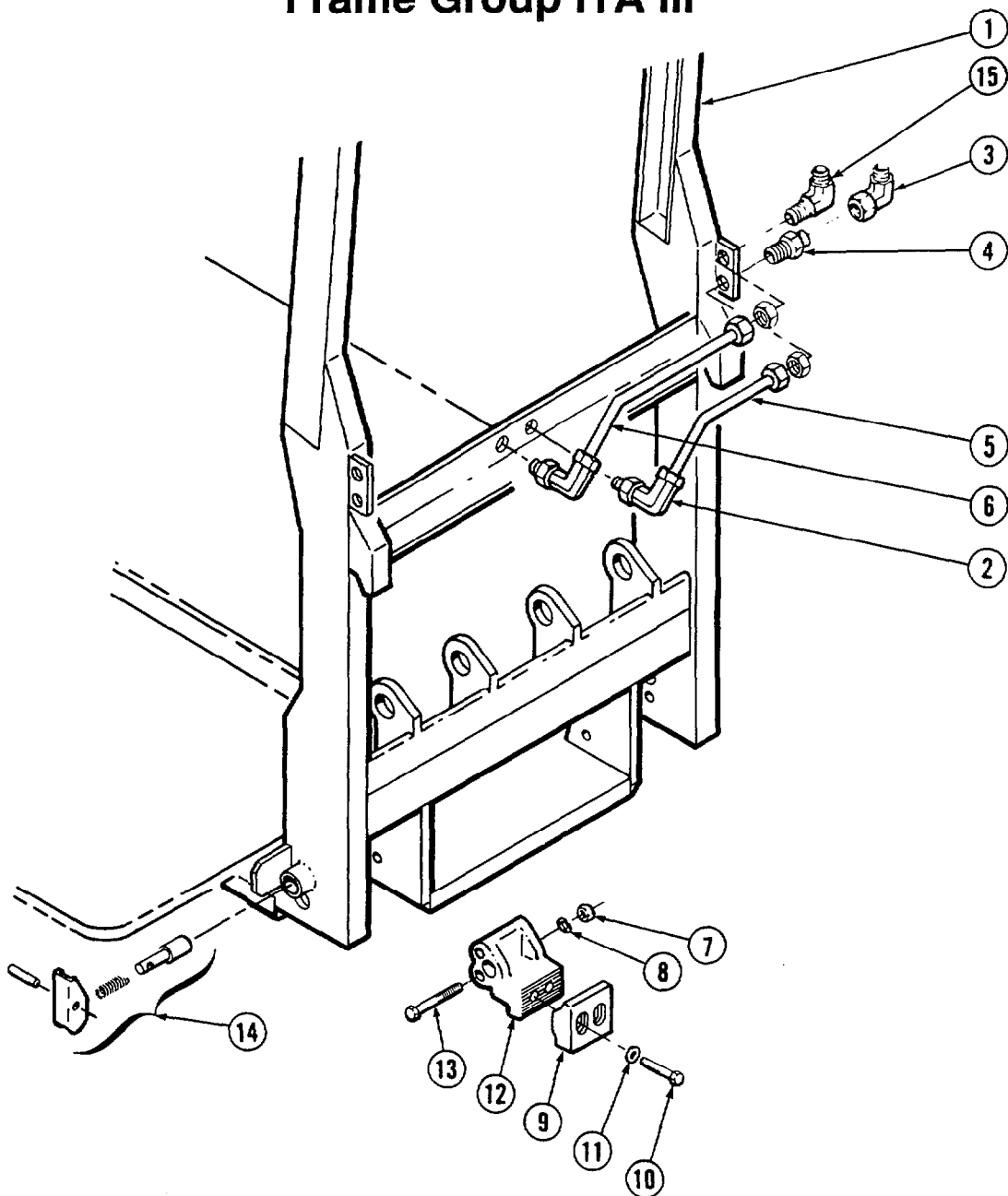
Frame Group ITA II



35E/45E

REF	QTY	PART NO	DESCRIPTION
		685597.....	Frame Group ITA II
1.....	1.....	685598.....	Frame
2.....	3.....	2453.....	Fitting, 6-6
3.....	1.....	2680.....	Fitting, 6-6
4.....	1.....	2375.....	Fitting, 6-6
5.....	1.....	683186.....	Tube
6.....	1.....	683187.....	Tube
7.....	2.....	763025.....	Nut
8.....	2.....	681473.....	Lockwasher
9.....	2.....	676280.....	Hook
10.....	4.....	768554.....	Capscrew
11.....	4.....	667910.....	Washer
12.....	2.....	683188.....	Pivot Hook
13.....	2.....	768837.....	Capscrew
14.....	2.....	683189.....	Pin Assembly

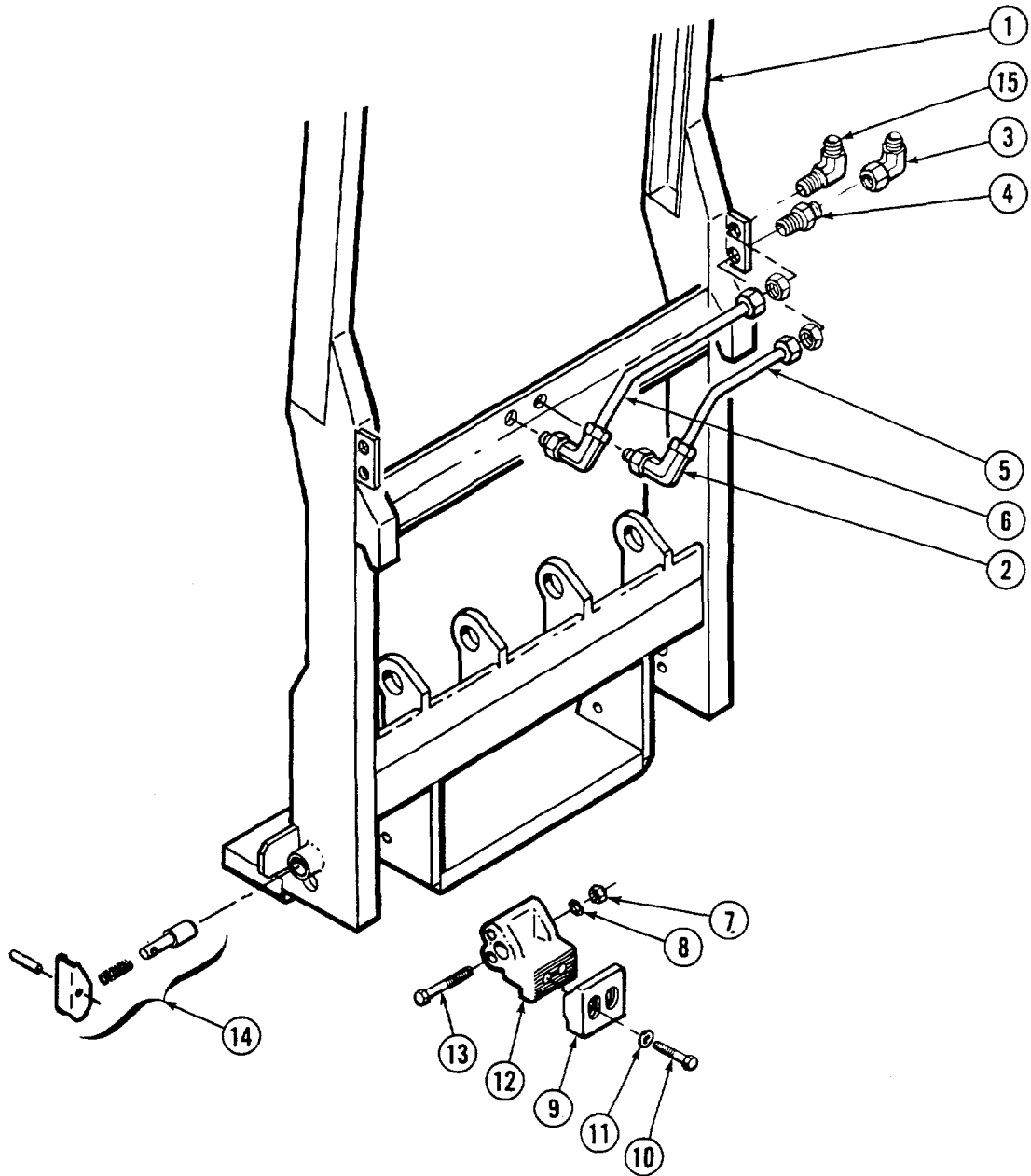
Frame Group ITA III



45E

REF	QTY	PART NO	DESCRIPTION
		685600.....	Frame Group ITA III
1.....	1.....	685601.....	Frame
2.....	2.....	2492.....	Fitting, 6-6
3.....	1.....	2680.....	Fitting, 6-6
4.....	1.....	2375.....	Fitting, 6-6
5.....	1.....	685605.....	Tube
6.....	1.....	685606.....	Tube
7.....	2.....	763025.....	Nut
8.....	2.....	681473.....	Lockwasher
9.....	2.....	685607.....	Hook
10.....	4.....	768557.....	Capscrew
11.....	4.....	667910.....	Washer
12.....	2.....	683188.....	Pivot Hook
13.....	2.....	768837.....	Capscrew
14.....	2.....	683189.....	Pin Assembly
15.....	1.....	2453.....	Fitting, 6-6

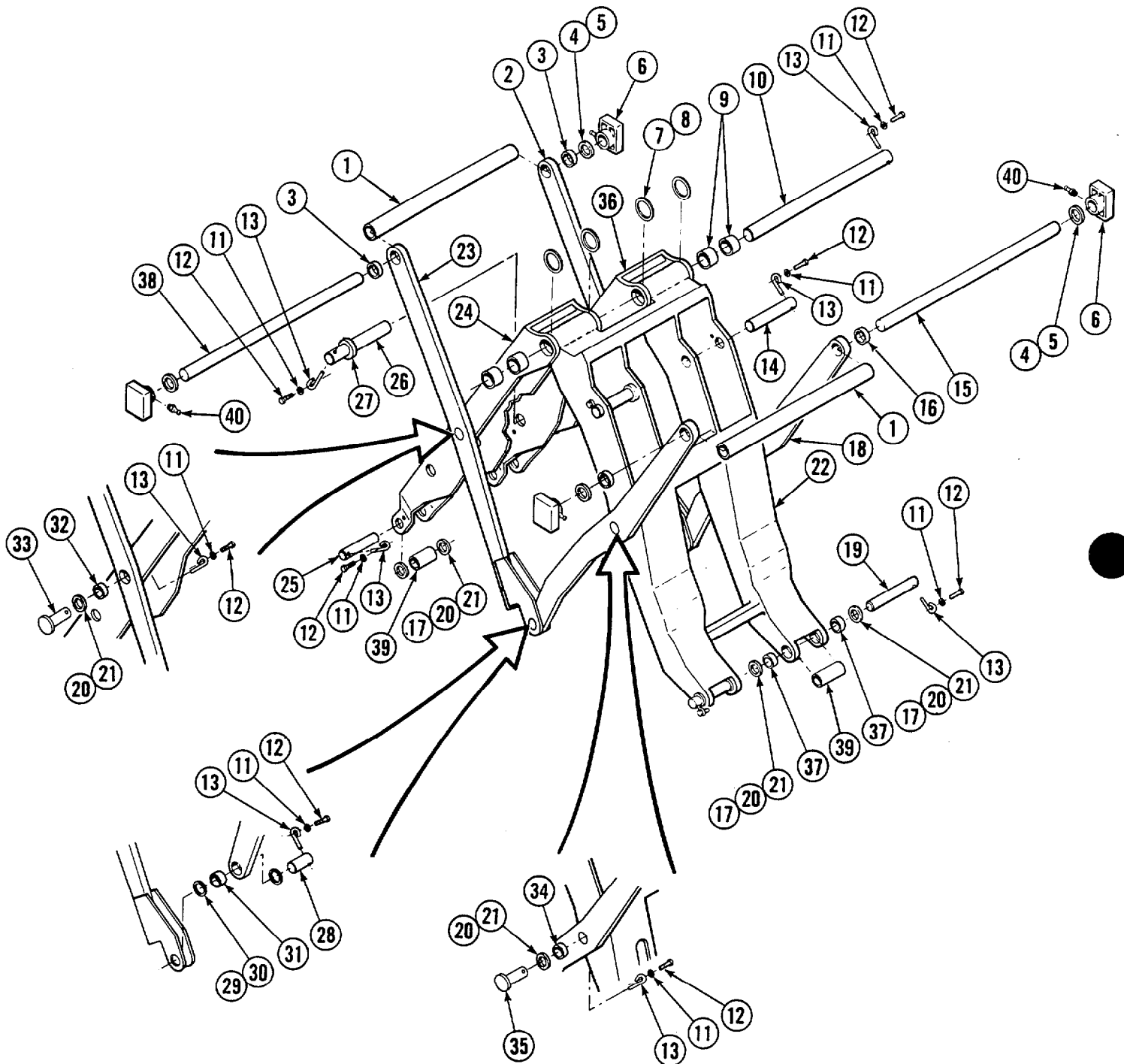
Frame Group ITA III



45E

REF	QTY	PART NO	DESCRIPTION
		685608.....	Frame Group ITA III
1.....	1.....	685609.....	Frame
2.....	2.....	2492.....	Fitting, 6-6
3.....	1.....	2680.....	Fitting, 6-6
4.....	1.....	2375.....	Fitting, 6-6
5.....	1.....	685605.....	Tube
6.....	1.....	685606.....	Tube
7.....	2.....	763025.....	Nut
8.....	2.....	681473.....	Lockwasher
9.....	2.....	685607.....	Hook
10.....	4.....	768557.....	Capscrew
11.....	4.....	667910.....	Washer
12.....	2.....	663188.....	Pivot Hook
13.....	2.....	768837.....	Capscrew
14.....	2.....	683189.....	Pin Assembly
15.....	1.....	2453.....	Fitting, 6-6

Mechanism Group



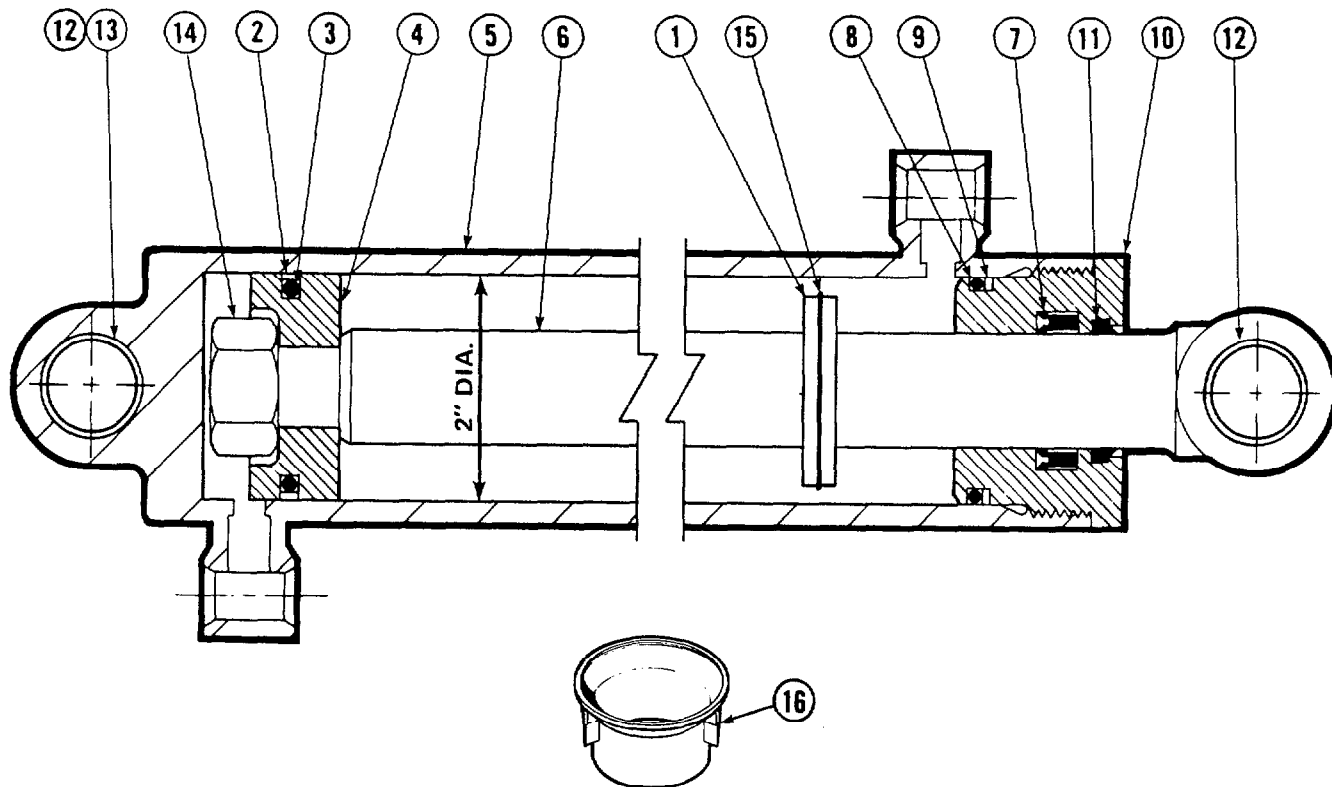
Mechanism Group

35E/45E

REF	QTY	PART NO	DESCRIPTION
		685993	Mechanism Group
		200807	Mechanism Group (hydraulic stop)
1	2	682817	Tube
2	1	683000	Arm-Secondary Outer R. H.
3	2	683154	Bushing
4	●	683161	Shim
5	●	683162	Shim
6	4	682866	Bearing
6	4	688396	Bearing-Heavy Duty
7	●	683163	Shim
8	●	683164	Shim
9	4	683155	Bushing
10	1	682821	Pin
11	15	6229	Washer
12	15	685661	Capscrew, M8x1.25x14-8.8
13	15	682999	Eye-Pin
14	2	682822	Pin-Head
15	1	682815	Pin
16	2	683153	Bushing
17	●	685838	Shim
18	2	682543	Arm-Outer Primary
19	2	682819	Pin-Frame
20	●	683159	Shim
21	●	683160	Shim
22	1	685995	Arm-Inner Primary
22	1	682598	Arm-Inner Primary (hydraulic stop)
23	1	682540	Arm-Secondary Outer L. H.
24	1	682588	Arm-Inner Secondary L. H.
25	2	682820	Pin-Faceplate
26	2	682823	Pin-Rod
27	2	683165	Spacer
28	2	682824	Pin-Outer
29	●	683158	Shim
30	●	683157	Shim
31	2	683149	Bushing
32	2	683152	Bushing
33	2	682826	Pin-Secondary Outer
34	2	683151	Bushing
35	2	682825	Pin-Primary Outer
36	1	682589	Arm-Inner Secondary R. H.
37	4	683150	Bushing
38	1	682816	Pin
39	4	685127	Spacer
40	4	7403	Grease Fitting
● Quantity as required.			

Reference:
LC-682829

Cylinders

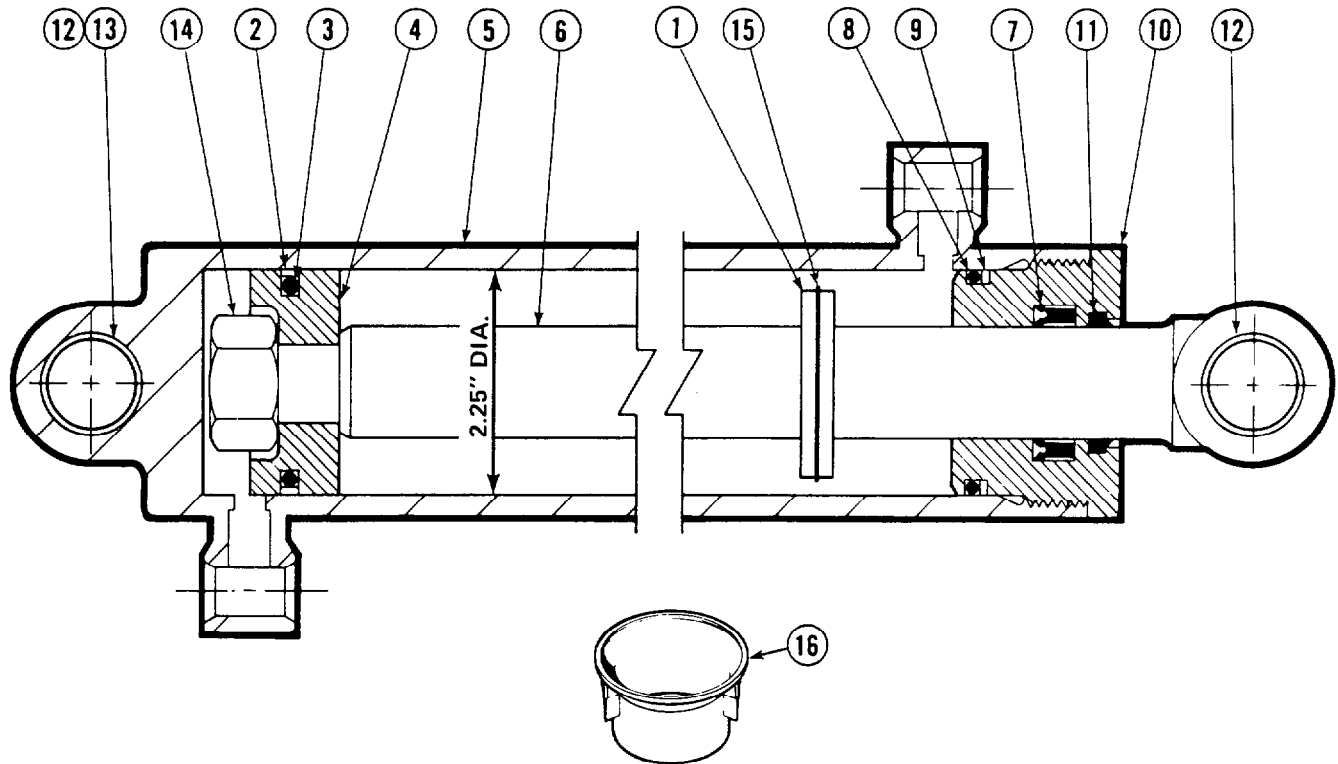


35E/45E

Cylinder Assembly Part No	Usable Platen Length	Extended Cylinder Length	REF. NO. 1 Spacer Part Number	Spacer Thickness
580433	48 in.	27.9 in.	---	---
685374	46 in.	27.5 in.	685379	0.4 in.
685375	44 in.	27.0 in.	685380	0.8 in.
685376	42 in.	26.6 in.	685381	1.3 in.
685377	40 in.	26.1 in.	685382	1.8 in.
685378	38 in.	25.6 in.	685383	2.3 in.

REF	QTY	PART NO	DESCRIPTION
■ 2	1	661648	Seal
■ 3	1	643385	O-Ring
4	1	559693	Piston
5	1	559694	Shell
6	1	558626	Rod
■ 7	1	559705	Seal
■ 8	1	2785	O-Ring
■ 9	1	615128	Back-Up Ring
10	1	559696	Retainer
■ 11	1	636853	Wiper
12	4	559697	Bearing
13	1	559698	Spacer
14	1	553717	Nut
15	1	7348	Snap Ring
16	1	672904	Seal Loader Kit
■ Included in Service Kit 559522.			

Cylinders

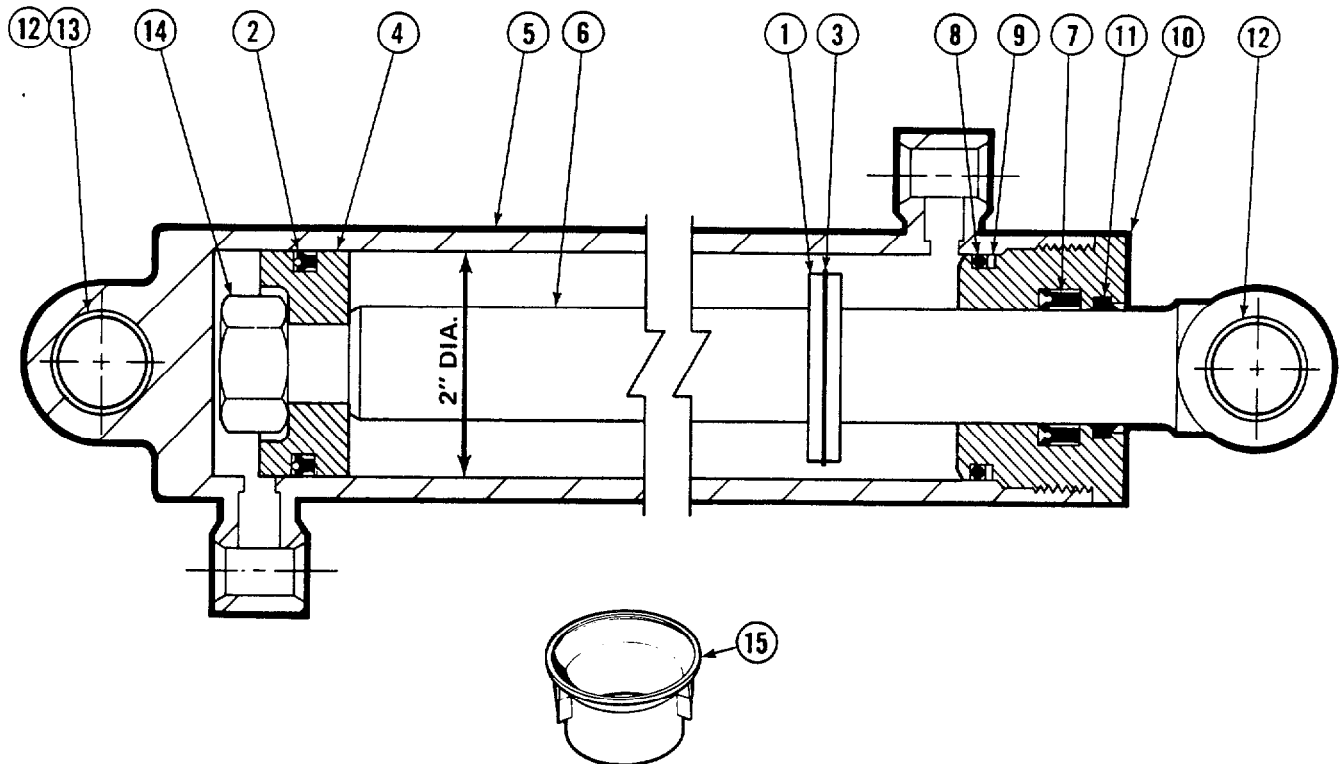


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Cylinder Assembly Part No	Usable Platen Length	Extended Cylinder Length	REF. NO. 1 Spacer Part Number	Spacer Thickness
580240.....	48 in.....	27.9 in.....	---	---
685369.....	46 in.....	27.5 in.....	685379.....	0.4 in.
685370.....	44 in.....	27.0 in.....	685380.....	0.8 in.
685371.....	42 in.....	26.6 in.....	685381.....	1.3 in.
685372.....	40 in.....	26.1 in.....	685382.....	1.8 in.
685373.....	38 in.....	25.6 in.....	685383.....	2.3 in.

REF	QTY	PART NO	DESCRIPTION
■ 2.....	1.....	661649.....	Seal
■ 3.....	1.....	643392.....	O-Ring
4.....	1.....	558623.....	Piston
5.....	1.....	558624.....	Shell
6.....	1.....	558626.....	Rod
■ 7.....	1.....	559705.....	Seal
■ 8.....	1.....	2787.....	O-Ring
■ 9.....	1.....	615130.....	Back-Up Ring
10.....	1.....	558628.....	Retainer
■ 11.....	1.....	636853.....	Wiper
12.....	4.....	559697.....	Bearing
13.....	1.....	559698.....	Spacer
14.....	1.....	553717.....	Nut
15.....	1.....	7348.....	Snap Ring
16.....	1.....	672905.....	Seal Loader Kit
■ Included in Service Kit 559521.			

Cylinders

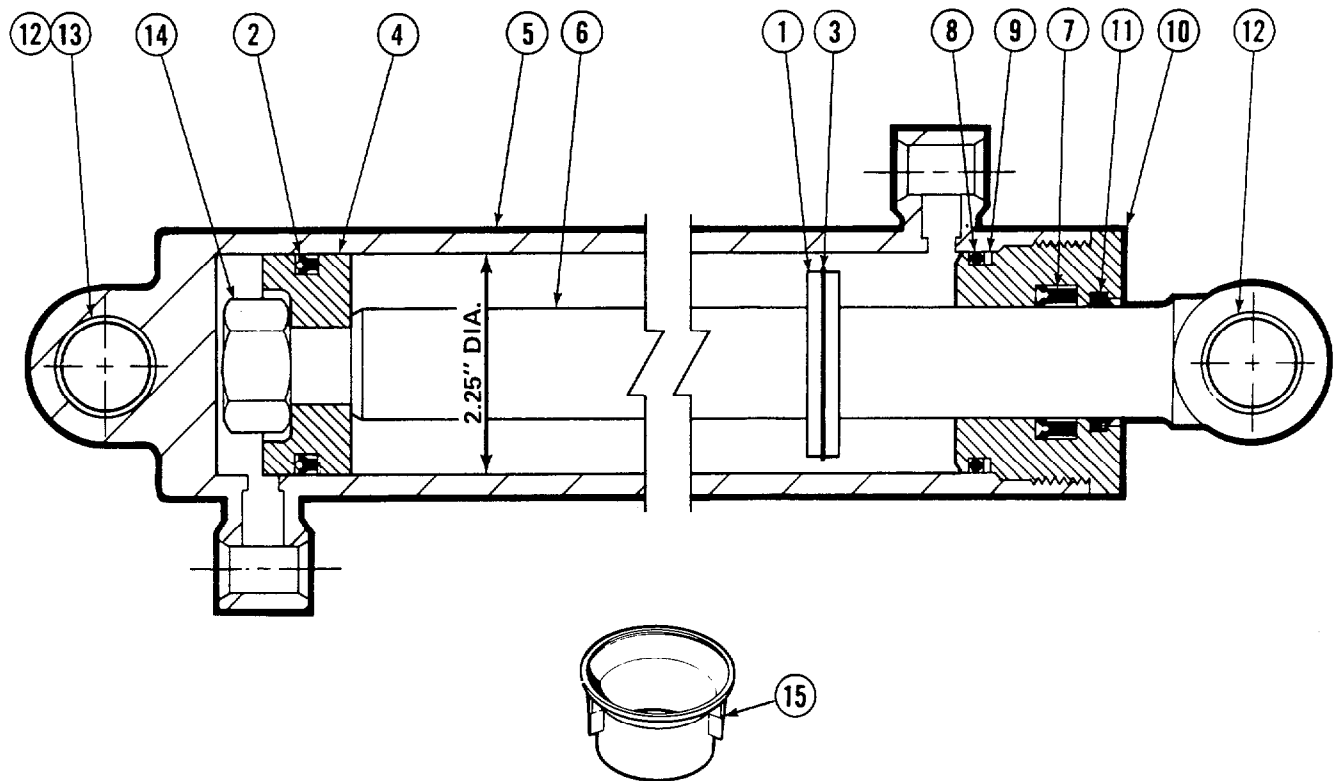


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Cylinder Assembly Part No	Usable Platen Length	Extended Cylinder Length	REF. NO. 1 Spacer Part Number	Spacer Thickness
582504.....	48 in.....	27.9 in.....	---	---
200435.....	46 in.....	27.5 in.....	685379.....	0.4 in.
200436.....	44 in.....	27.0 in.....	685380.....	0.8 in.
200437.....	42 in.....	26.6 in.....	685381.....	1.3 in.
200438.....	40 in.....	26.1 in.....	685382.....	1.8 in.
200439.....	38 in.....	25.6 in.....	685383.....	2.3 in.

REF	QTY	PART NO	DESCRIPTION
■ 2.....	1.....	562552.....	Seal
3.....	1.....	7348.....	Snap Ring
4.....	1.....	562334.....	Piston
5.....	1.....	562335.....	Shell
6.....	1.....	558626.....	Rod
■ 7.....	1.....	559705.....	Seal
■ 8.....	1.....	2785.....	O-Ring
■ 9.....	1.....	615128.....	Back-Up Ring
10.....	1.....	559696.....	Retainer
■ 11.....	1.....	636853.....	Wiper
12.....	4.....	559697.....	Bearing
13.....	1.....	559698.....	Spacer
14.....	1.....	553717.....	Nut
15.....	1.....	672904.....	Seal Loader Kit
■ Included in Service Kit 562338			

Cylinders

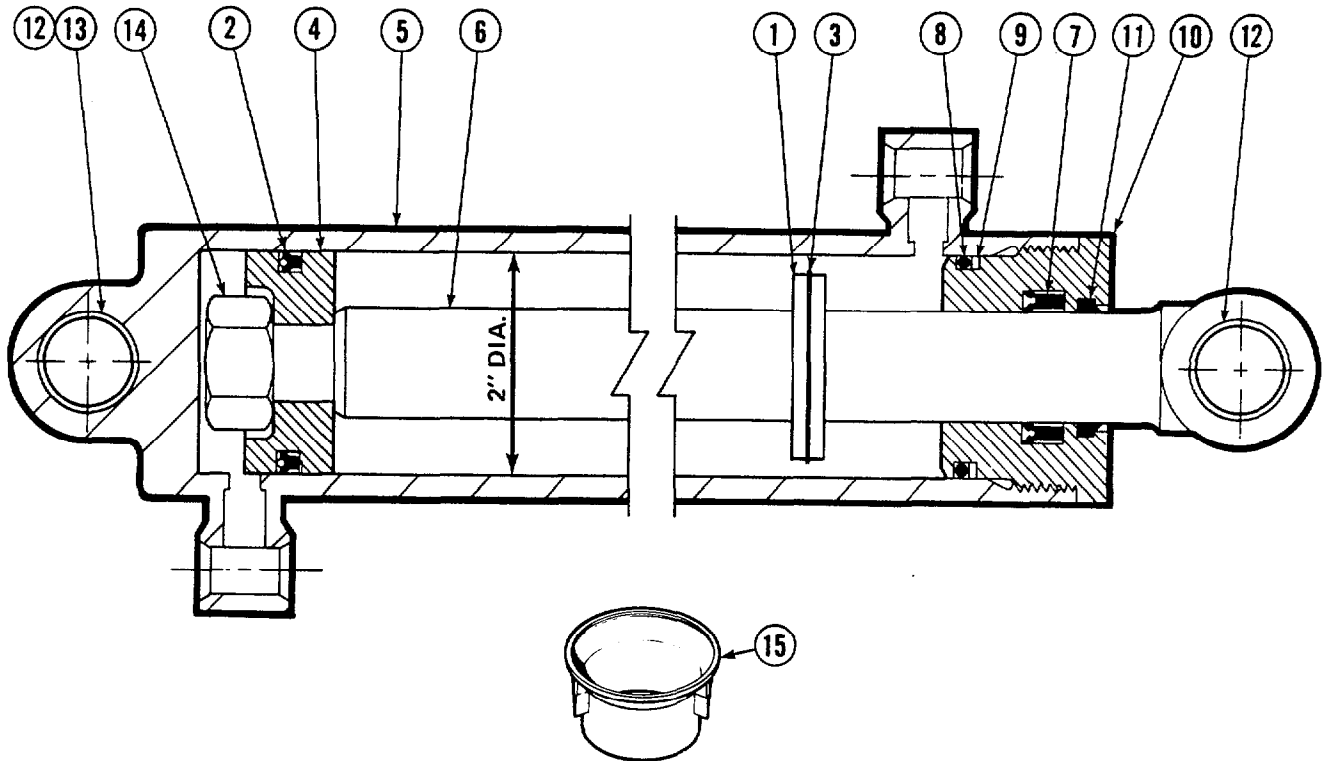


35E/45E

Cylinder Assembly Part No	Usable Platen Length	Extended Cylinder Length	REF. NO. 1 Spacer Part Number	Spacer Thickness
582505.....	48 in.	27.9 in.	---	---
200430.....	46 in.	27.5 in.	685379	0.4 in.
200431.....	44 in.	27.0 in.	685380	0.8 in.
200432.....	42 in.	26.6 in.	685381	1.3 in.
200433.....	40 in.	26.1 in.	685382	1.8 in.
200434.....	38 in.	25.6 in.	685383	2.3 in.

REF	QTY	PART NO	DESCRIPTION
■ 2.....	1.....	562553	Seal
3.....	1.....	7348	Snap Ring
4.....	1.....	562333	Piston
5.....	1.....	562336	Shell
6.....	1.....	558626	Rod
■ 7.....	1.....	559705	Seal
■ 8.....	1.....	2787	O-Ring
■ 9.....	1.....	615130	Back-Up Ring
10.....	1.....	558628	Retainer
■ 11.....	1.....	636853	Wiper
12.....	4.....	559697	Bearing
13.....	1.....	559698	Spacer
14.....	1.....	553717	Nut
15.....	1.....	672905	Seal Loader Kit
■ Included in Service Kit 562339.			

Cylinders

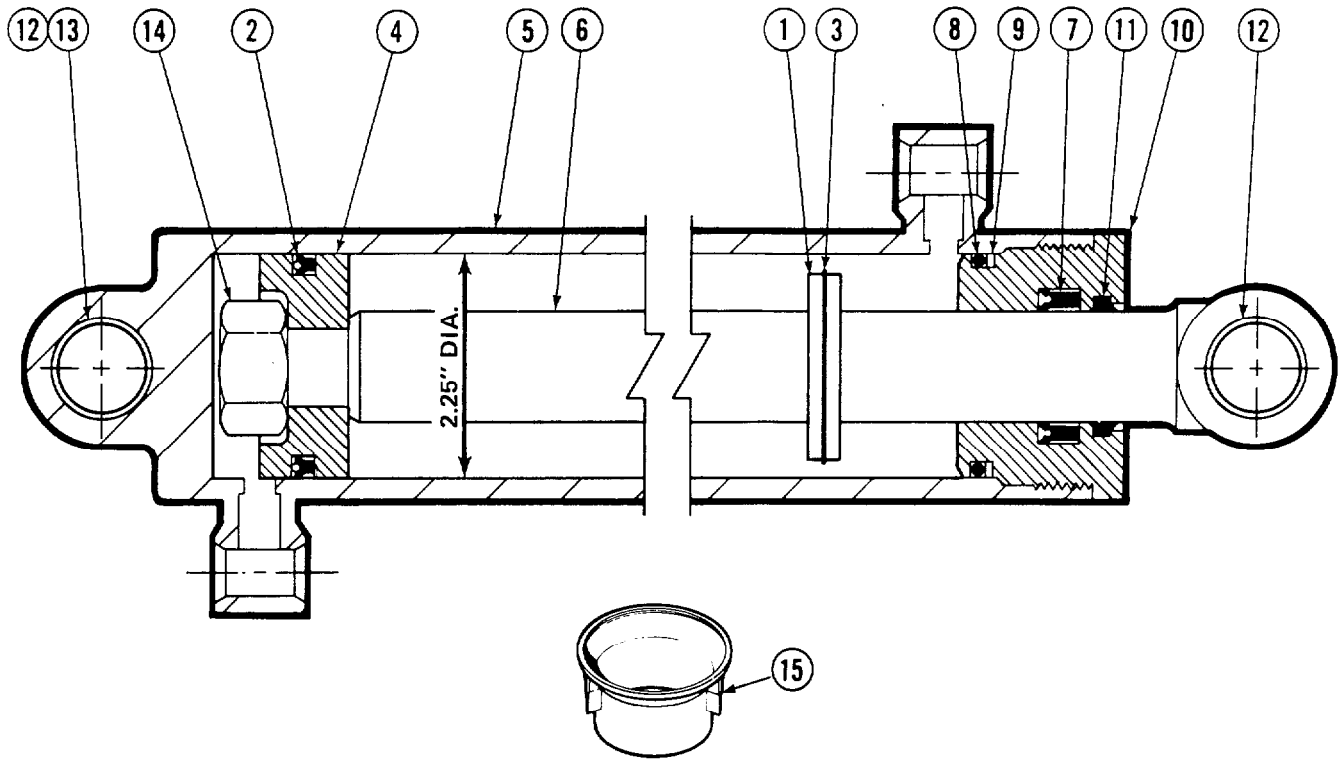


35E/45E

Cylinder Assembly Part No	Usable Platen Length	Extended Cylinder Length	REF. NO. 1 Spacer Part Number	Spacer Thickness
582635	48 in.	27.9 in.	---	---
200991	46 in.	27.5 in.	685379	0.4 in.
200992	44 in.	27.0 in.	685380	0.8 in.
200993	42 in.	26.6 in.	685381	1.3 in.
200994	40 in.	26.1 in.	685382	1.8 in.
200995	38 in.	25.6 in.	685383	2.3 in.

REF	QTY	PART NO	DESCRIPTION
■ 2	1	562552	Seal
3	1	7348	Snap Ring
4	1	562334	Piston
5	1	562716	Shell
6	1	558626	Rod
■ 7	1	559705	Seal
■ 8	1	2785	O-Ring
■ 9	1	615128	Back-Up Ring
10	1	559696	Retainer
■ 11	1	636853	Wiper
12	4	559697	Bearing
13	1	559698	Spacer
14	1	553717	Nut
15	1	672904	Seal Loader Kit
■ Included in Service Kit 562338			

Cylinders

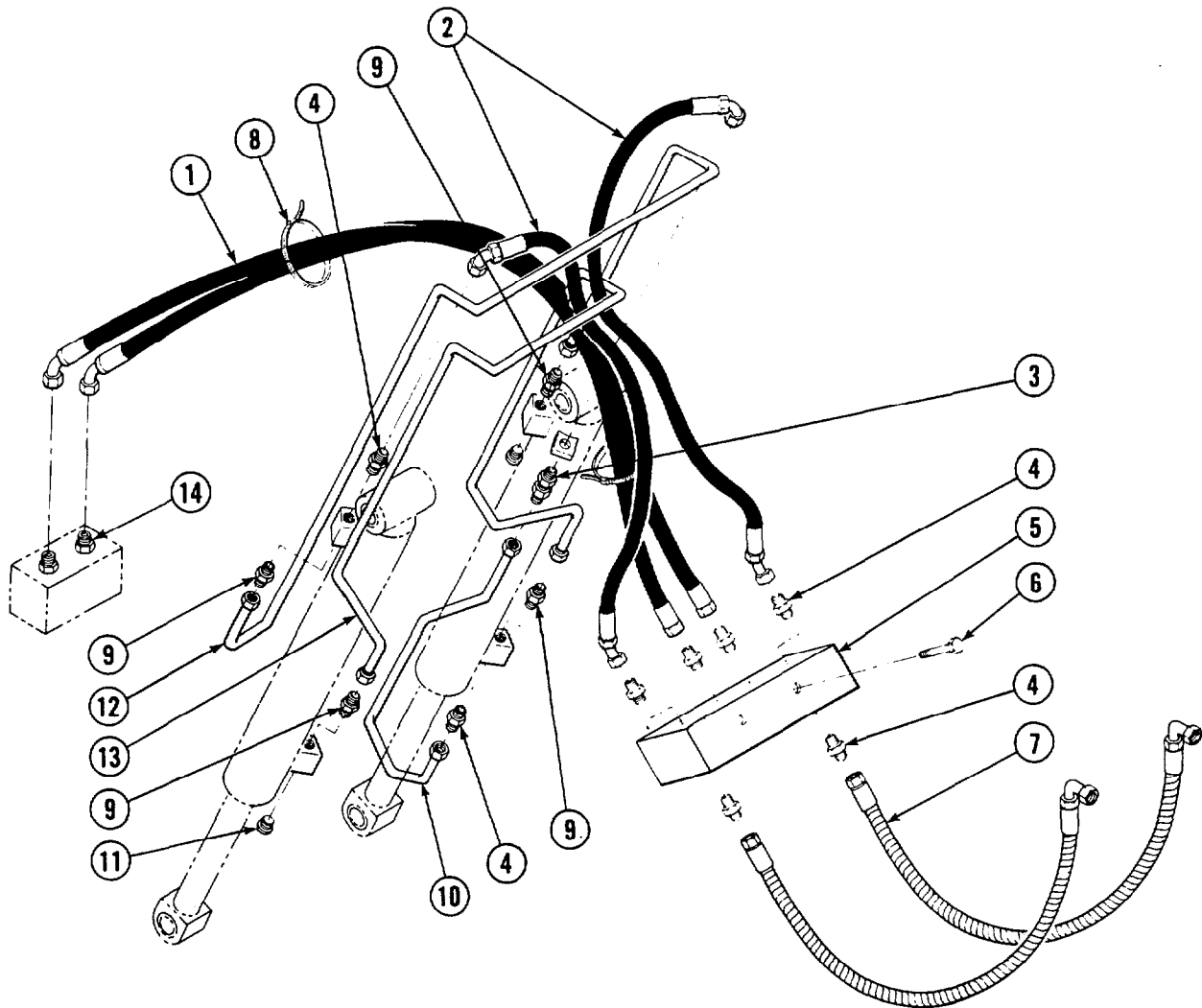


35E/45E

Cylinder Assembly Part No	Usable Platen Length	Extended Cylinder Length	REF. NO. 1 Spacer Part Number	Spacer Thickness
582636.....	48 in.	27.9 in.	---	---
200986.....	46 in.	27.5 in.	685379	0.4 in.
200987.....	44 in.	27.0 in.	685380	0.8 in.
200988.....	42 in.	26.6 in.	685381	1.3 in.
200989.....	40 in.	26.1 in.	685382	1.8 in.
200990.....	38 in.	25.6 in.	685383	2.3 in.

REF	QTY	PART NO	DESCRIPTION
■ 2.....	1.....	562553.....	Seal
3.....	1.....	7348.....	Snap Ring
4.....	1.....	562333.....	Piston
5.....	1.....	562717.....	Shell
6.....	1.....	558626.....	Rod
■ 7.....	1.....	559705.....	Seal
■ 8.....	1.....	2787.....	O-Ring
■ 9.....	1.....	615130.....	Back-Up Ring
10.....	1.....	558628.....	Retainer
■ 11.....	1.....	636853.....	Wiper
12.....	4.....	559697.....	Bearing
13.....	1.....	559698.....	Spacer
14.....	1.....	553717.....	Nut
15.....	1.....	672905.....	Seal Loader Kit
■ Included in Service Kit 562339.			

Hydraulic Group



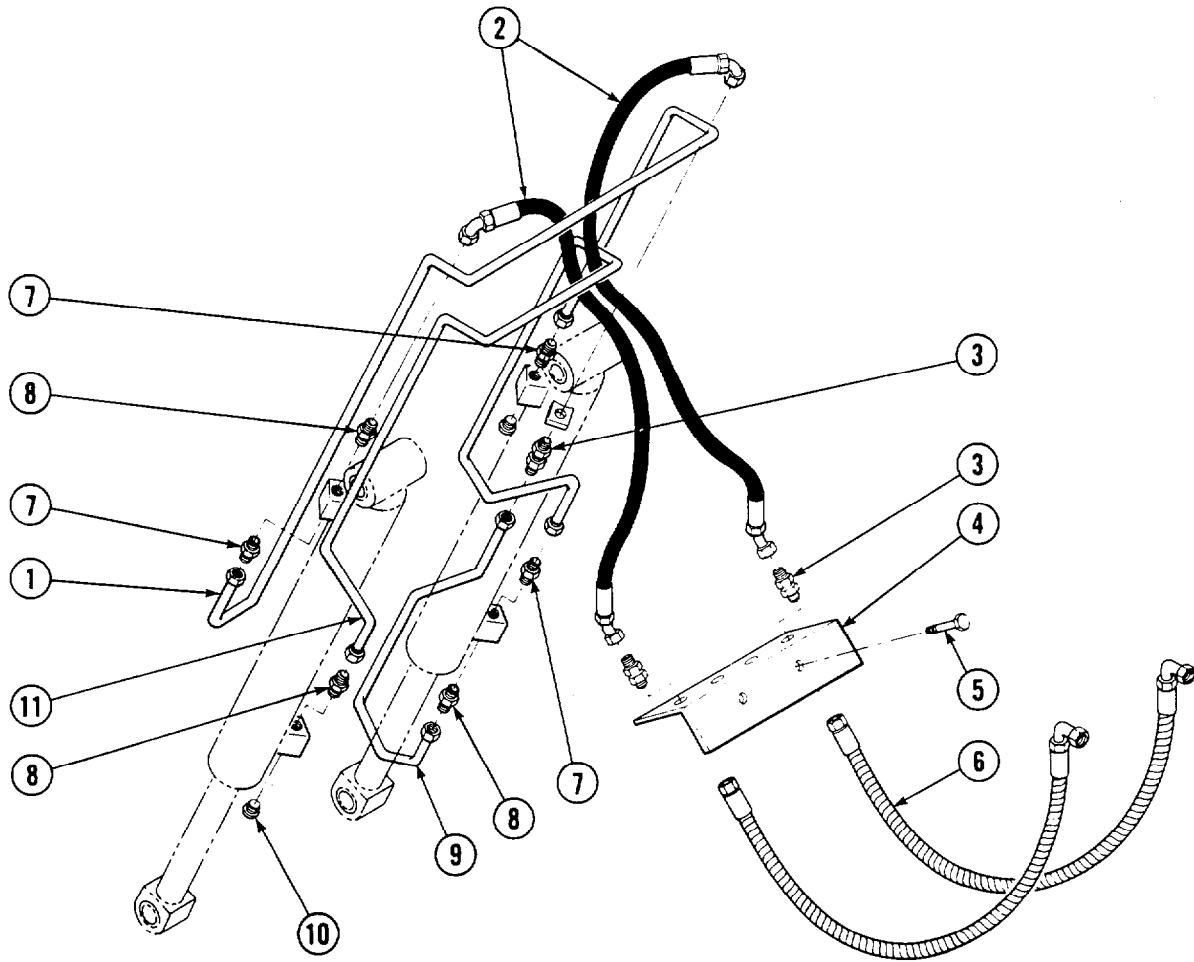
35E/45E

REF	QTY	PART NO	DESCRIPTION
		683191.....	Hydraulic Group ITA II
		683192.....	Hydraulic Group ITA III
1.....	1.....	■.....	Hose
2.....	2.....	683173.....	Hose
3.....	1.....	2375.....	Fitting, 6-6
4.....	6.....	604511.....	Fitting, 6-6
5.....	1.....	682812.....	▲ Valve
6.....	2.....	765329.....	Capscrew, M8x1,25x20-8.8
7.....	2.....	685978.....	Hose ITA II
7.....	2.....	685979.....	Hose ITA III
8.....	2.....	684956.....	Cable Tie
9.....	4.....	605235.....	Fitting, 5-6
10.....	1.....	682995.....	Tube
11.....	2.....	604510.....	Plug, 6
12.....	1.....	682994.....	Tube
13.....	1.....	682993.....	Tube
14.....	2.....	■.....	Fitting, 4-6

■ If any of these parts needs replacement
order Hose Service Kit part number 685837.

▲ See page 18 for parts breakdown.

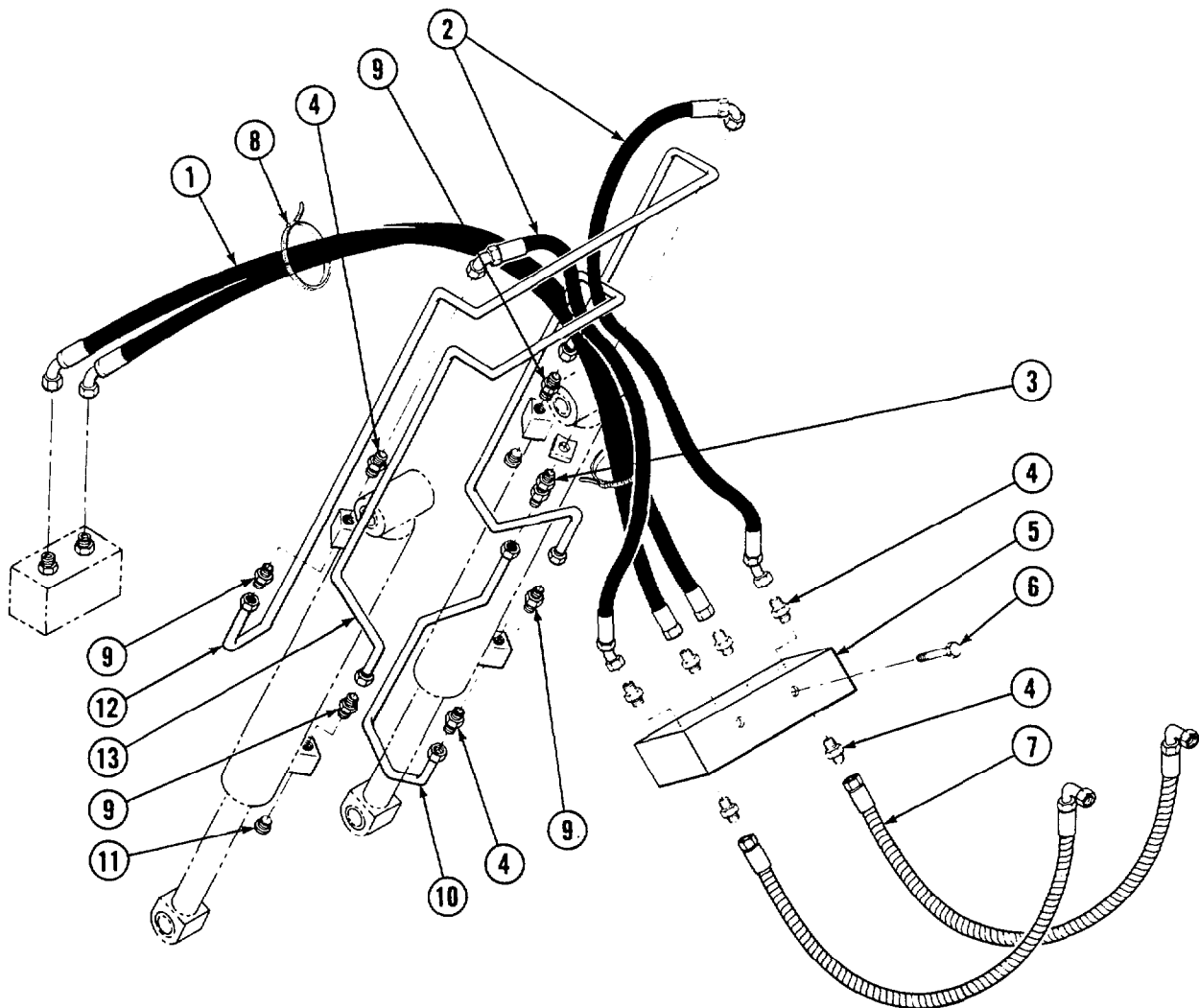
Hydraulic Group



35E/45E

REF	QTY	PART NO	DESCRIPTION
		683193	Hydraulic Group ITA II
		683194	Hydraulic Group ITA III
1	1	682994	Tube
2	2	683173	Hose
3	3	2375	Fitting, 6-6
4	2	683171	Bracket
5	2	765329	Capscrew, M8x1.25x20-8.8
6	2	685980	Hose ITA II
6	2	688981	Hose ITA III
7	4	605235	Fitting, 5-6
8	2	604511	Fitting, 6-6
9	1	682995	Tube
10	2	604510	Plug, 6
11	1	682993	Tube

Hydraulic Group

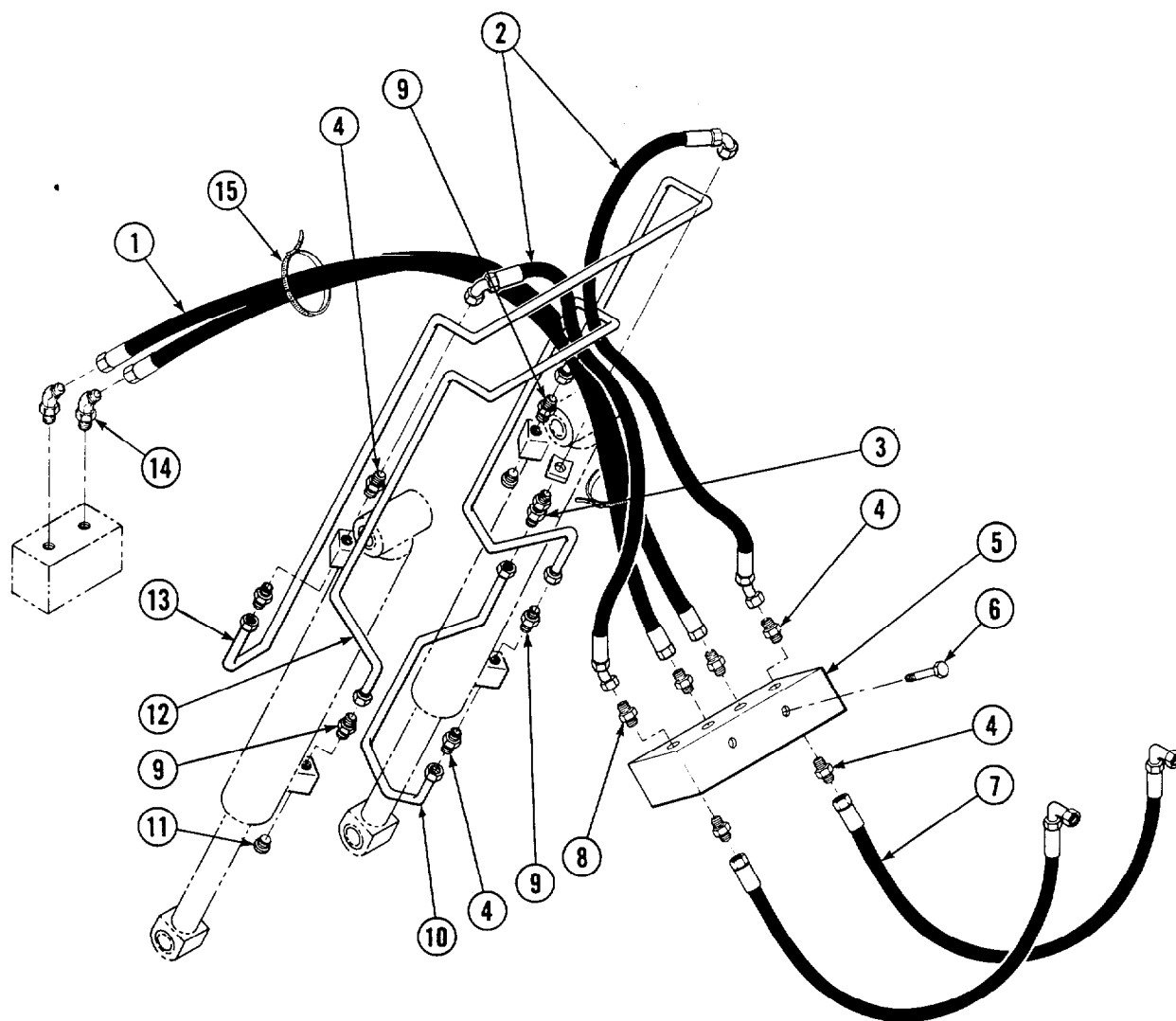


35E/45E

REF	QTY	PART NO	DESCRIPTION
		685828	Hydraulic Group ITA II
		685830	Hydraulic Group ITA III
1	1	685831	Hose
2	2	683173	Hose
3	1	2375	Fitting, 6-6
4	8	604511	Fitting, 6-6
5	1	682812	Valve
6	2	765329	Capscrew, M8x1.25x20-8.8
7	2	685978	Hose ITA II
7	2	685981	Hose ITA III
8	2	684956	Cable Tie
9	4	605235	Fitting, 5-6
10	1	200647	Tube
11	2	604510	Plug, 6
12	1	200649	Tube
13	1	200648	Tube

■ See page 18 for parts breakdown.

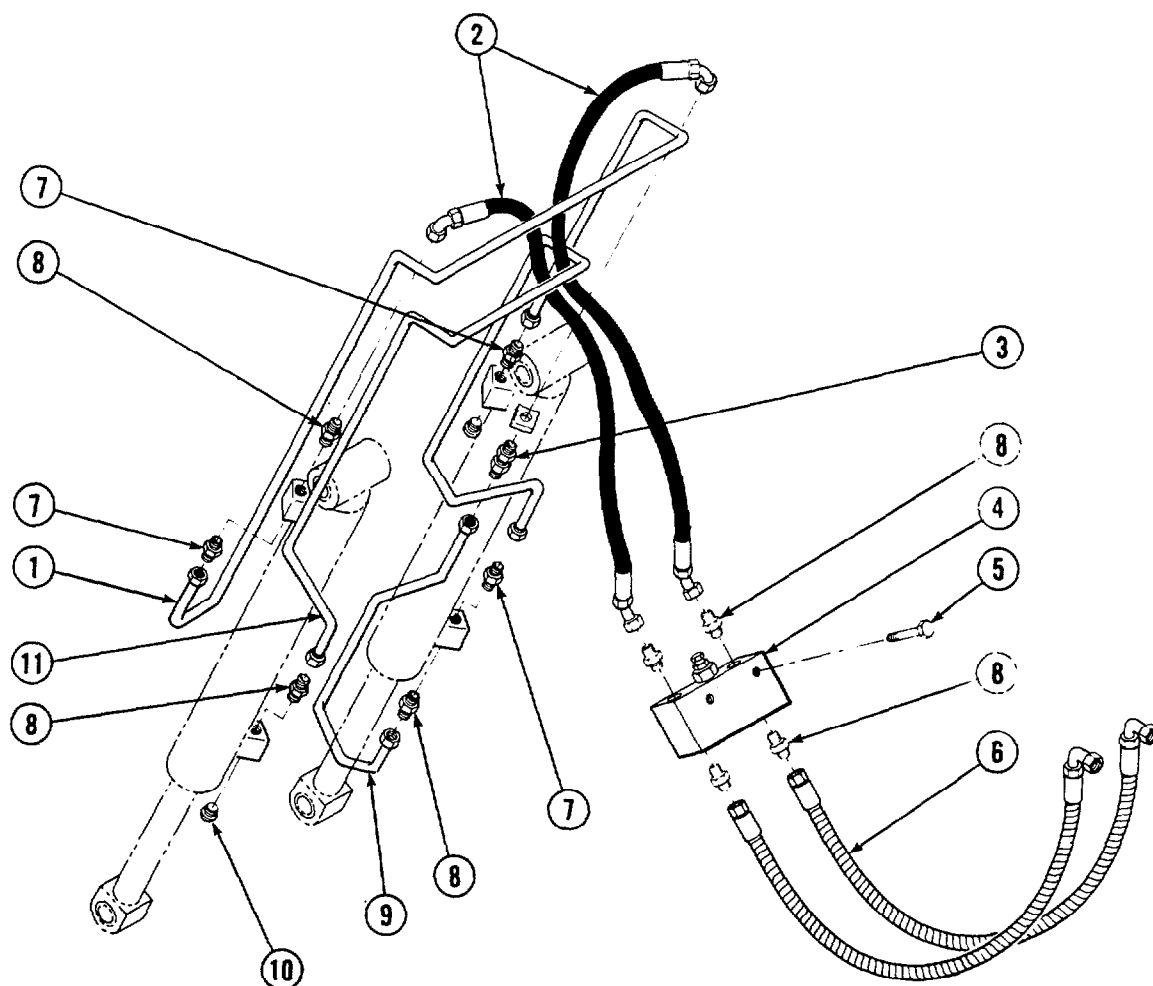
Hydraulic Group



35E/45E

REF	QTY	PART NO	DESCRIPTION
		685643	Hydraulic Group
1	1	683175	Hose
2	2	683173	Hose
3	1	2375	Fitting, 6-6
4	6	604511	Fitting, 6-6
5	1	682812	Valve
6	2	765329	Capscrew, M8x20-8.8
7	2	683195	Hose
8	2	627850	Fitting, 4-6
9	4	605235	Fitting, 5-6
10	1	200647	Tube
11	2	604510	Plug, 6
12	1	200648	Tube
13	1	200649	Tube
14	2	617918	Fitting, 4-6
15	2	649085	Cable Tie
■ See page 18 for parts breakdown.			

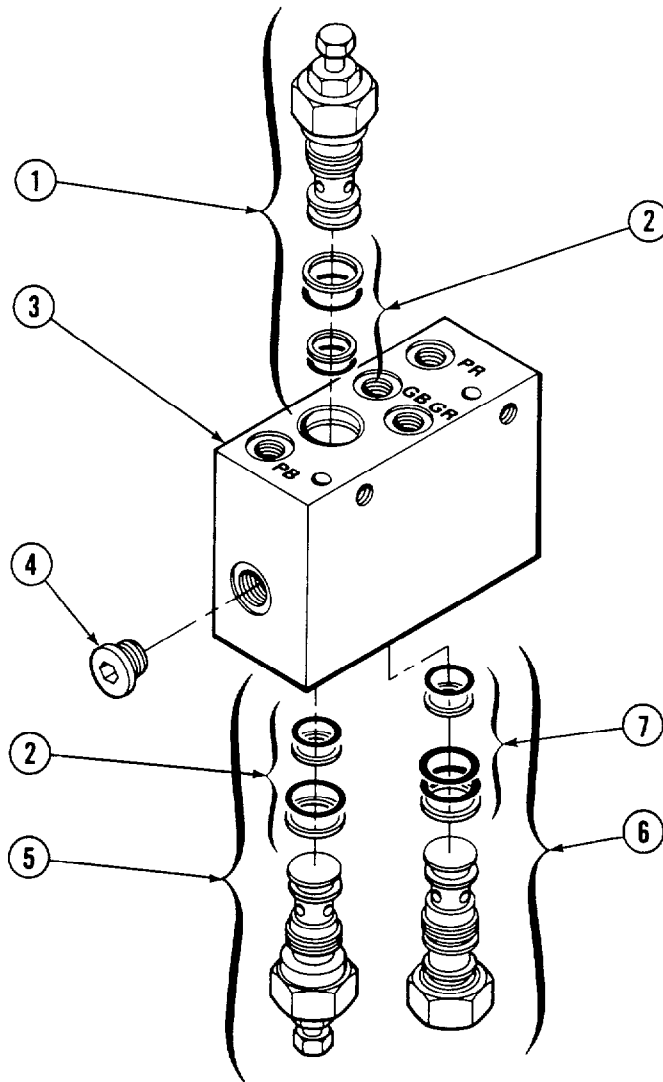
Hydraulic Group Load Push



35E/45E

REF	QTY	PART NO	DESCRIPTION
		688382	Hydraulic Group ITA II
		688383	Hydraulic Group ITA III
1	1	200649	Tube
2	2	683173	Hose
3	1	2375	Fitting, 6-6
4	2	688384	■ Valve
5	2	765329	Capscrew, M8x1.25x20-8.8
6	2	685980	Hose ITA II
6	2	688981	Hose ITA III
7	4	605235	Fitting, 5-6
8	6	604511	Fitting, 6-6
9	1	200647	Tube
10	2	604510	Plug, 6
11	1	200648	Tube
■ See page 19 for parts breakdown.			

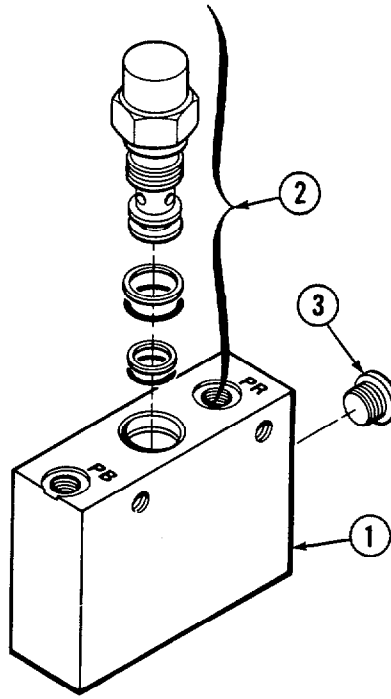
Valve Push/Pull



35E/45E

REF	QTY	PART NO	DESCRIPTION
		682812.....	Valve
1.....	1.....	677125.....	Sequence Valve (Retract)
2.....	2.....	669597.....	Service Kit
3.....	1.....	682813.....	Body
4.....	5.....	663694.....	Fitting, 3
5.....	1.....	677124.....	Sequence Valve (Extend)
6.....	1.....	659058.....	Gripper Check Valve
7.....	1.....	667516.....	Service Kit

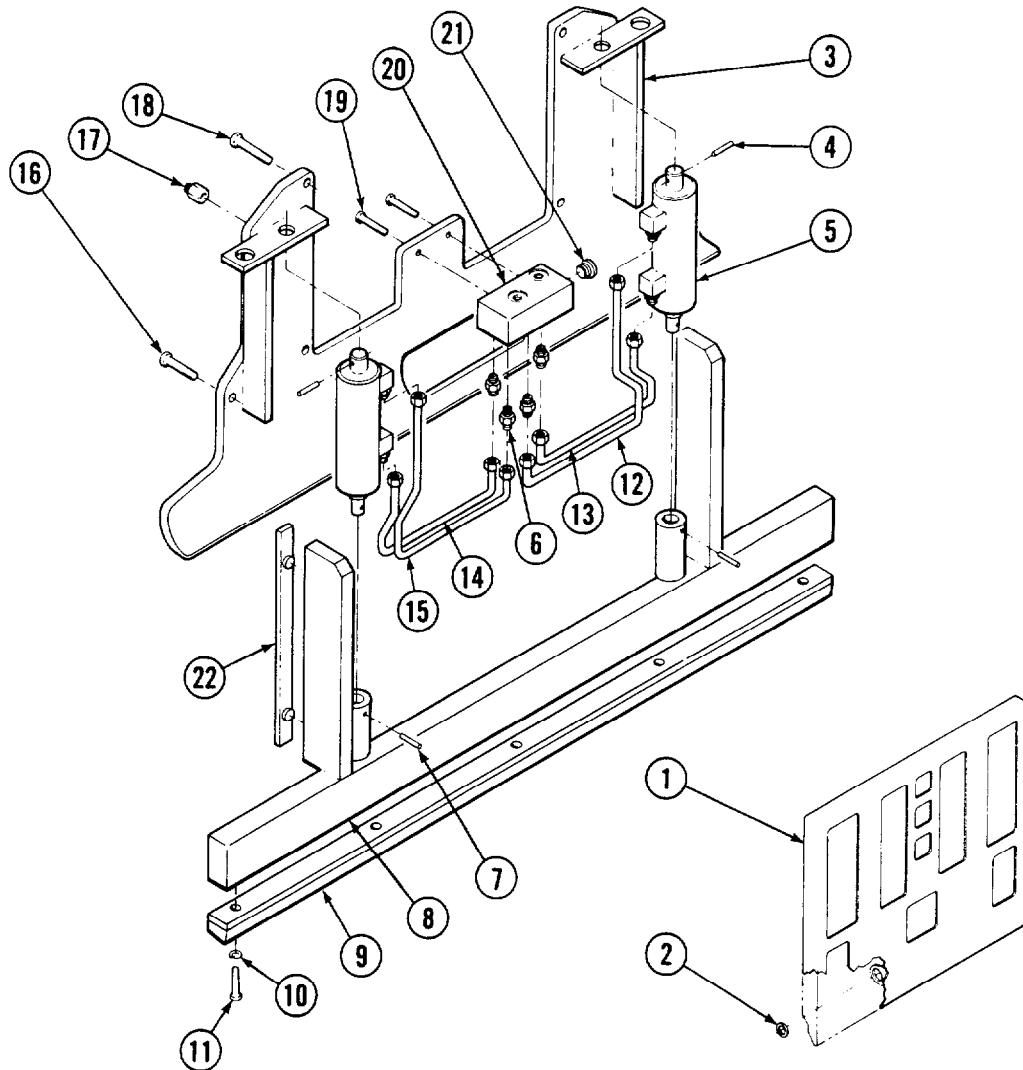
Valve Load Push



35E/45E

REF	QTY	PART NO	DESCRIPTION
		688384.....	Valve Assembly
1.....	1.....	688385.....	Body
2.....	1.....	687224.....	Relief Valve
3.....	2.....	663694.....	Fitting, 3

Faceplate Group



35E/45E

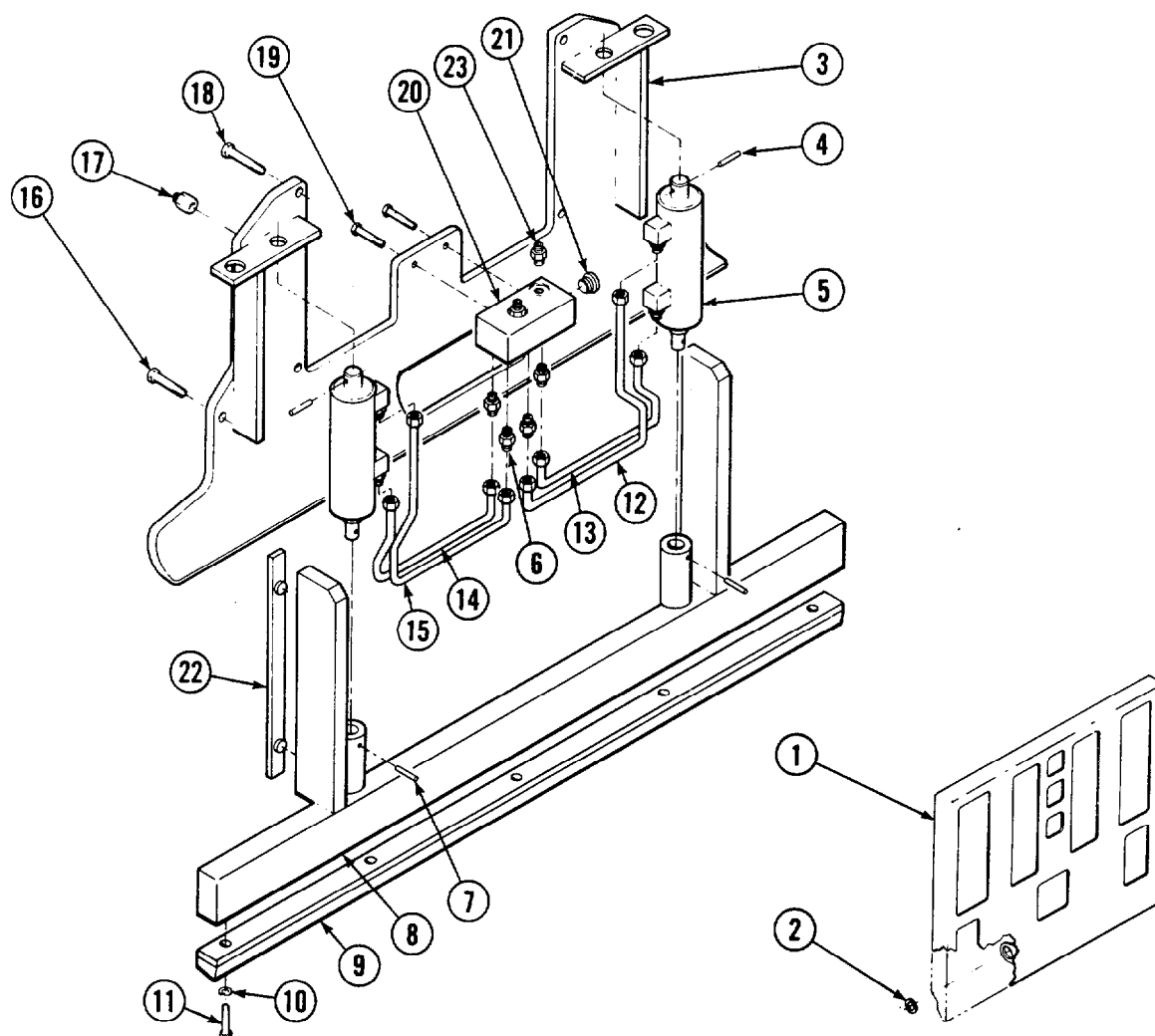
REF	QTY	PART NO	DESCRIPTION	REF	QTY	PART NO	DESCRIPTION
		682830.....	■ Faceplate Group	11.....	5.....	768794.....	Capscrew, M8x1,25x20-8.8
		682831.....	● Gripper Jaw Assembly	12.....	1.....	682847.....	Tube
1.....	1.....	682591.....	Faceplate	13.....	1.....	682846.....	Tube
2.....	4.....	683150.....	Bushing	14.....	1.....	682848.....	Tube
3.....	1.....	682583.....	Gripper Jaw	15.....	1.....	682849.....	Tube
4.....	2.....	673385.....	Drive Pin	16.....	2.....	768710.....	Capscrew
5.....	2.....	682844.....	▲ Gripper Cylinder	17.....	4.....	682850.....	Stop
6.....	8.....	617915.....	Fitting, 4-4	18.....	4.....	767901.....	Capscrew, M16x1,25x35-8.8
7.....	2.....	200877.....	Drive Pin	19.....	2.....	763166.....	Capscrew, M8x1,25x25-8.8
8.....	1.....	686574.....	Gripper Bar	20.....	1.....	682845.....	Junction Block
9.....	1.....	672712.....	Gripper Pad	21.....	2.....	609234.....	Plug, 4
10.....	5.....	6444.....	Lockwasher	22.....	2.....	686573.....	Bearing

■ Includes items 1 and 2.

● Includes items 3 through 22.

▲ See page 23 for parts breakdown.

Faceplate Group



Items that vary

35E/45E

REF	QTY	PART NO	DESCRIPTION
		685667.....	★ 40" x 40" Faceplate Group
		688403.....	★ 40" x 52" Faceplate Group
		686570.....	● Gripper Jaw Assembly
1.....	1	682591.....	★ 40" x 40" Faceplate
1.....	1	688404.....	★ 40" x 52" Faceplate

Common items

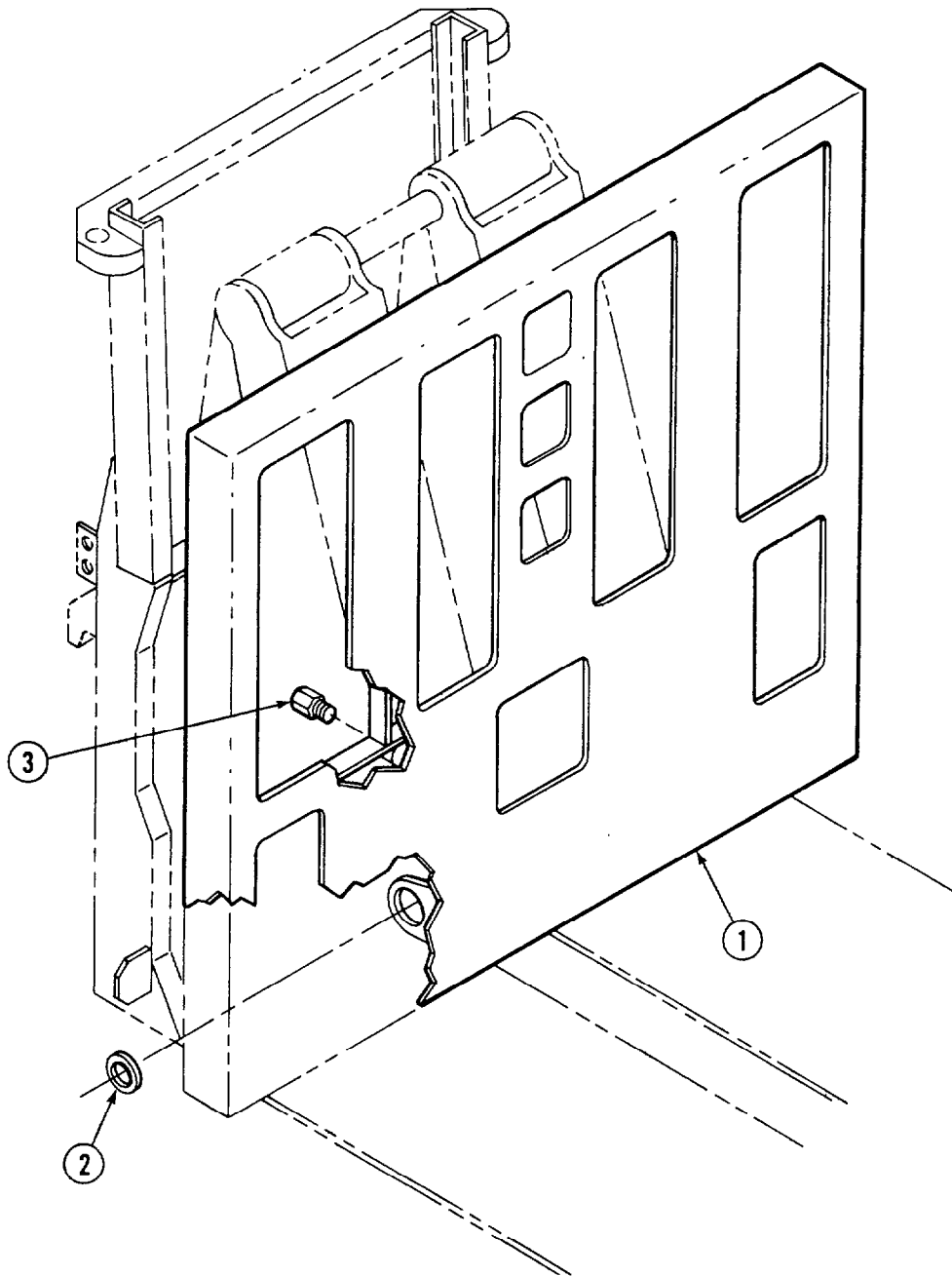
REF	QTY	PART NO	DESCRIPTION	REF	QTY	PART NO	DESCRIPTION
2.....	4	683150.....	Bushing	13.....	1	682846.....	Tube
3.....	1	682583.....	Gripper Jaw	14.....	1	682848.....	Tube
4.....	2	673385.....	Drive Pin	15.....	1	682849.....	Tube
5.....	2	682844.....	▲ Gripper Cylinder	16.....	2	768710.....	Capscrew
6.....	8	617915.....	Fitting, 4-4	17.....	4	682850.....	Stop
7.....	2	200877.....	Drive Pin	18.....	4	779010.....	Capscrew
8.....	1	686571.....	Gripper Bar	19.....	2	763166.....	Capscrew, M8x1,25x25-8.8
9.....	1	672712.....	Gripper Pad	20.....	1	685832.....	Junction Block
10.....	5	6444.....	Lockwasher	21.....	2	609234.....	Plug, 4
11.....	5	768794.....	Capscrew, M8x1,25x20-8.8	22.....	2	686573.....	Bearing
12.....	1	682847.....	Tube	23.....	2	604511.....	Fitting, 6-6

★ Width x height.

● Includes items 3 through 22.

▲ See page 23 for parts breakdown.

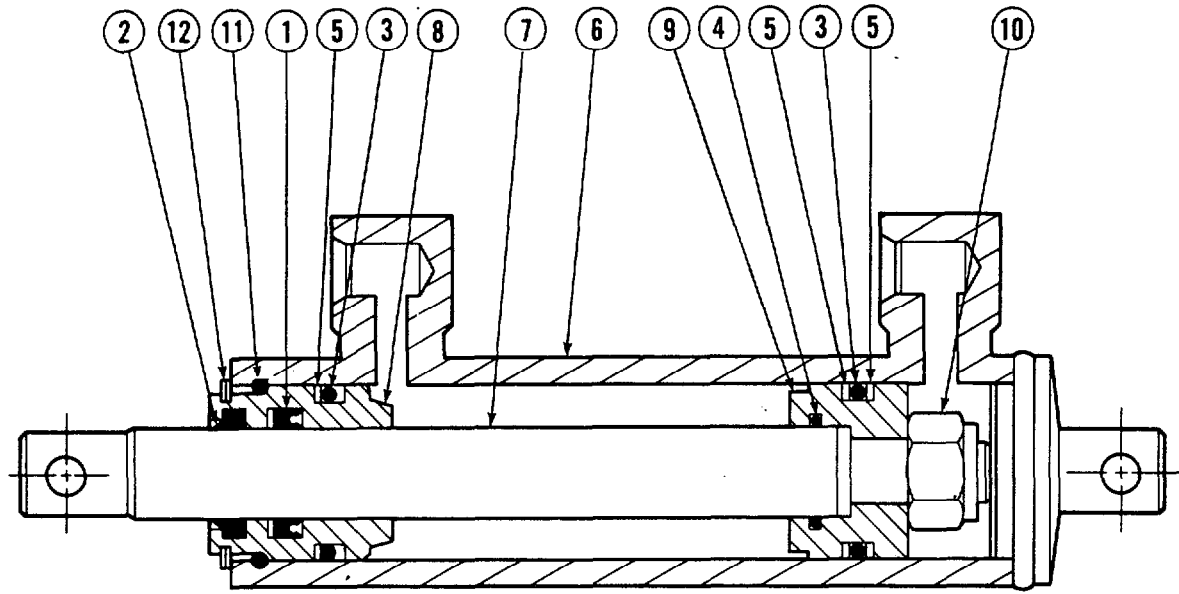
Faceplate Group



35E/45E

REF	QTY	PART NO	DESCRIPTION
		683166	Faceplate Group
1	1	683167	Faceplate
2	4	683150	Bushing
3	2	682850	Stop

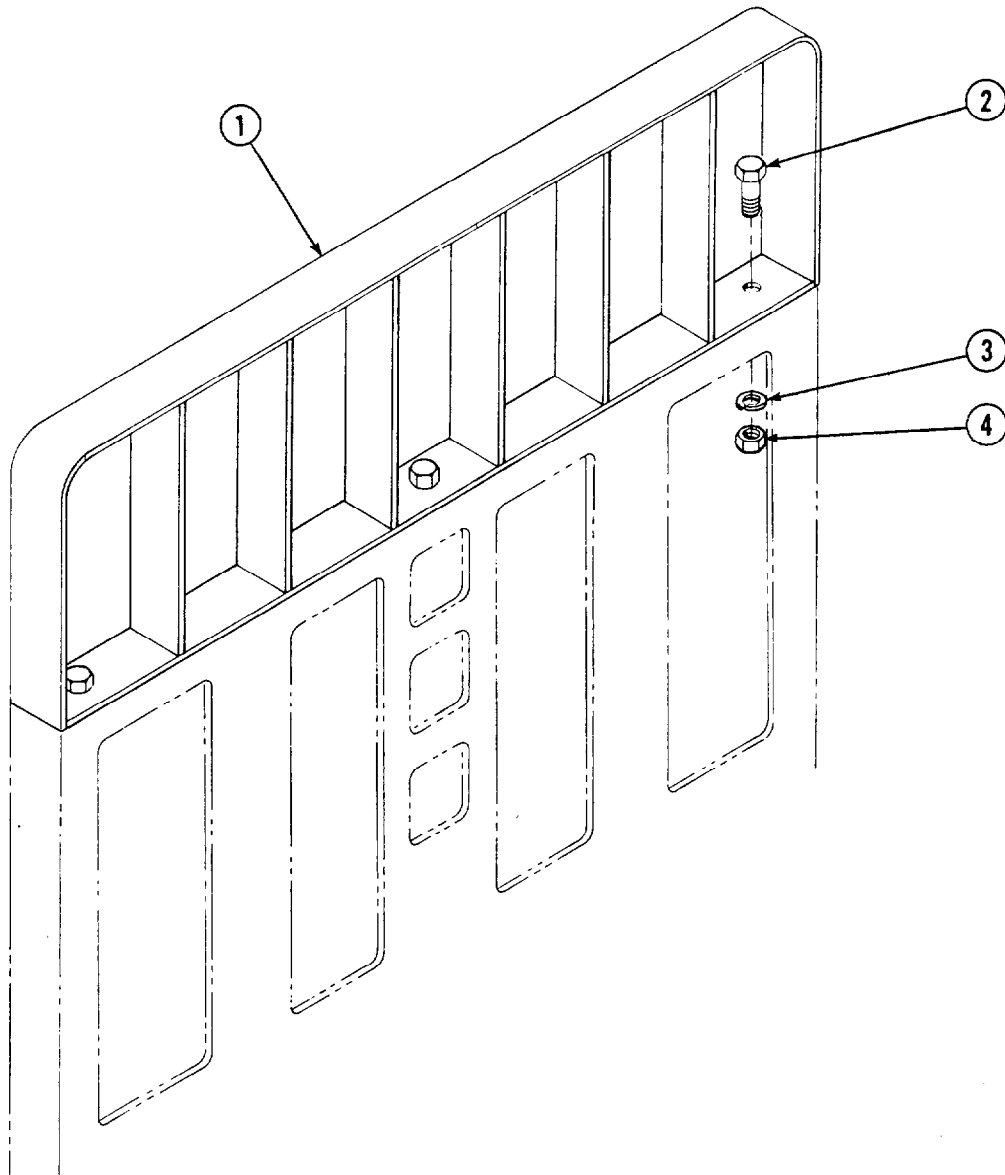
Gripper Cylinder



35E/45E

REF	QTY	PART NO	DESCRIPTION
		682844	Gripper Cylinder
■ 1	1	646540	Seal
■ 2	1	636850	Wiper
■ 3	2	2718	O-Ring
■ 4	1	2710	O-Ring
■ 5	3	615122	Back-Up Ring
6	1	685662	Shell
7	1	685663	Rod
8	1	685664	Retainer
9	1	685665	Piston
10	1	500218	Nut
11	1	674277	Ring
12	1	3137	Snap-Ring
■ Included in Service Kit 684827			

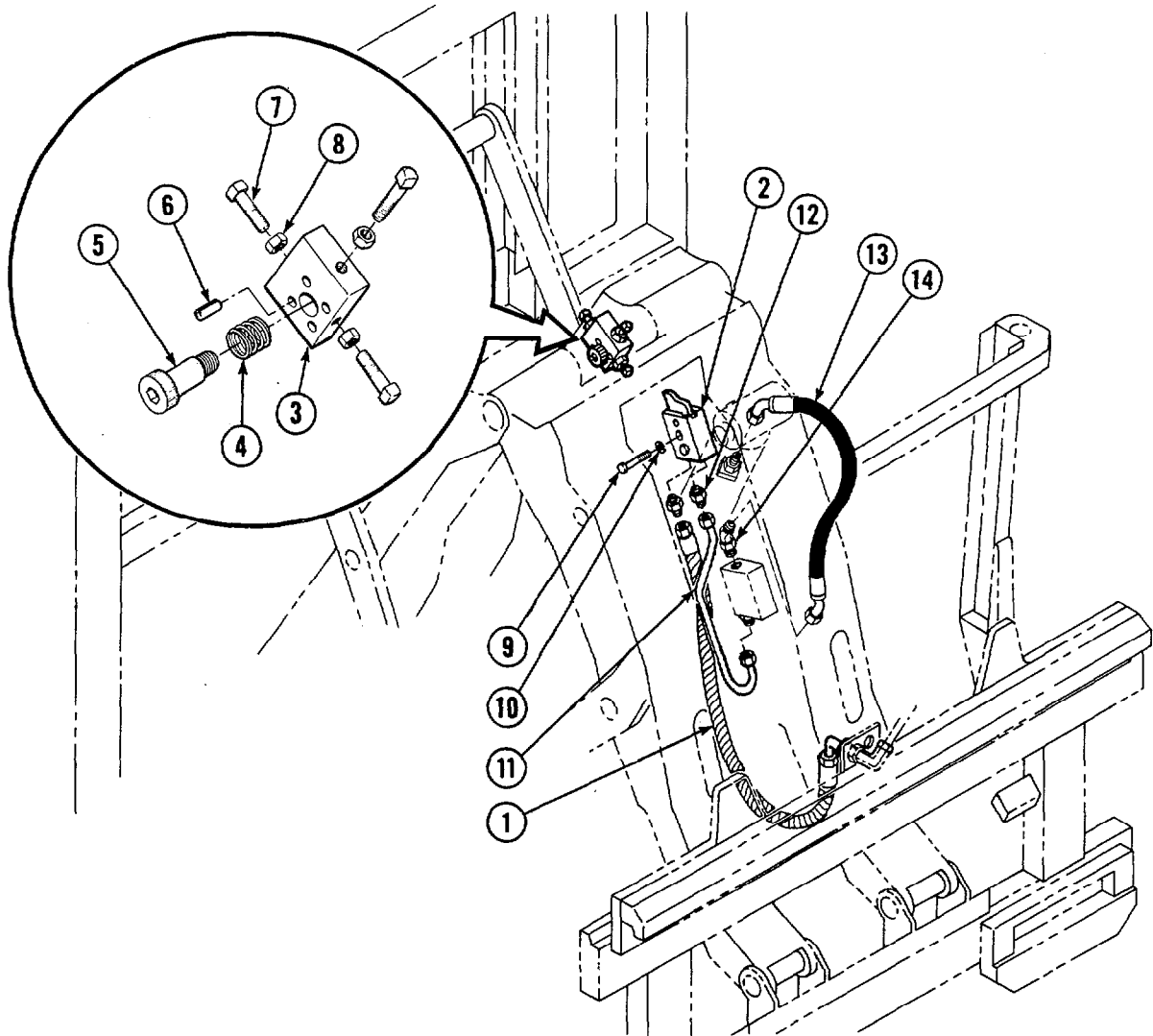
Faceplate Extension



35E/45E

REF	QTY	PART NO	DESCRIPTION
		676295.....	8" Faceplate Extension Group
1.....	1.....	676296.....	8" Faceplate Extension
2.....	3.....	601854.....	Capscrew, 1/2 NC x 1.0 GR5
3.....	3.....	6290.....	Lockwasher, 1/2 ID
4.....	3.....	5904.....	Nut, 1/2 NC

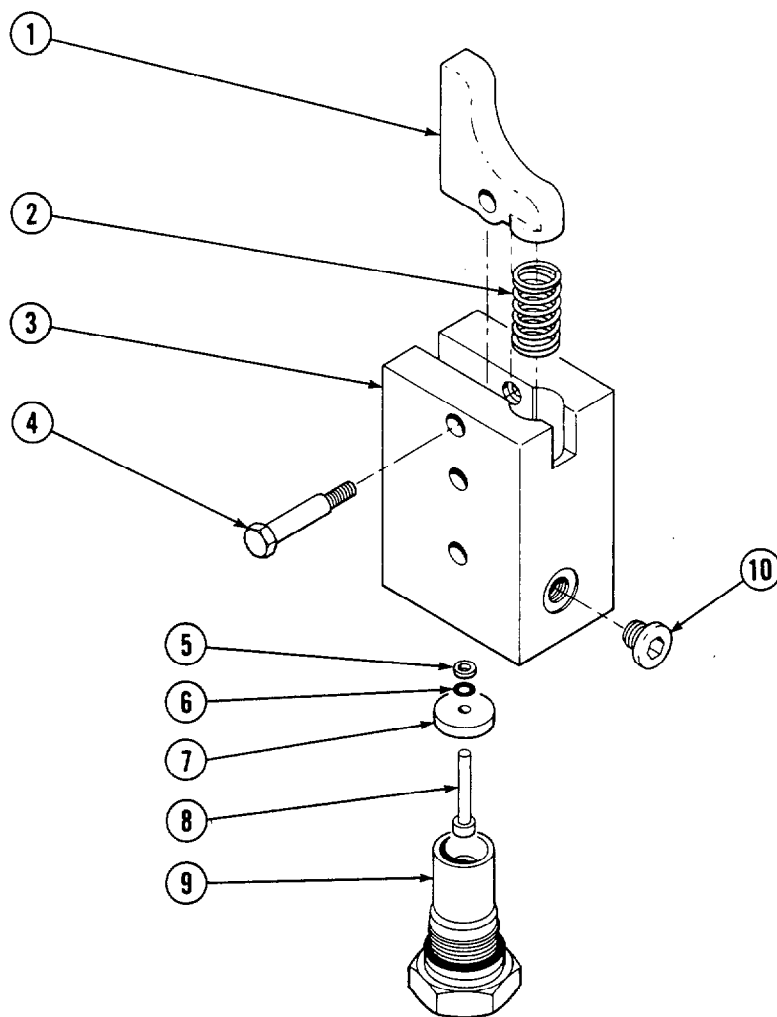
Hydraulic Stop Group



35E/45E

REF	QTY	PART NO	DESCRIPTION
		684567	Hydraulic Stop Group
1.....	1.....	684568	Hose
2.....	1.....	684572	Valve
3.....	1.....	684578	Selector Body
4.....	1.....	674580	Spring
5.....	1.....	685659	Shoulder Bolt
6.....	1.....	769026	Roll Pin
7.....	3.....	684582	Capscrew
8.....	3.....	684583	Nut
9.....	2.....	768527	Capscrew, M8x1,25x50-8.8
10.....	2.....	6287	Lockwasher
11.....	1.....	684584	Tube
12.....	2.....	604511	Fitting, 6-6
13.....	1.....	686519	Hose
14.....	1.....	611302	Fitting, 6
■ See page 26 for parts breakdown.			

Hydraulic Stop Valve



35E/45E

REF	QTY	PART NO	DESCRIPTION
		684572.....	Hydraulic Stop Valve
1.....	1.....	684575.....	Actuator
2.....	1.....	630041.....	Spring
3.....	1.....	684573.....	Body
4.....	1.....	684576.....	Shoulder Screw
5.....	1.....	615000.....	Back-up Ring
6.....	1.....	2696.....	O-Ring
7.....	1.....	669310.....	Spacer
8.....	1.....	684577.....	Plunger
9.....	1.....	671690.....	Valve Cartridge
10.....	1.....	663694.....	Fitting, 3

Recommended Spare Parts List

35E/45E QFM™ Push/Pull

PART NO.	DESCRIPTION	Attachments Serviced		
		1-5	6-19	20-50
PLATEN GROUP				
768704	Capcrew	8	16	32
683189	Lower Hook Pin	2	4	6
MECHANISM GROUP				
682866	Bearing Blocks	4	8	8
683149	▼ Bushing	2	4	6
683150	▼ Bushing	4	8	12
683151	▼ Bushing	2	4	6
683152	▼ Bushing	2	4	6
683153	▼ Bushing	2	4	6
683154	▼ Bushing	2	4	6
683155	▼ Bushing	4	8	12
683157	▼ Shim	8	16	30
683158	▼ Shim	8	16	30
683159	▼ Shim	8	16	30
683160	▼ Shim	8	16	30
683161	▼ Shim	8	16	30
683162	▼ Shim	8	16	30
683163	▼ Shim	8	16	30
683164	▼ Shim	8	16	30
682999	Eye Pin	4	8	16
HYDRAULIC GROUP				
■	Gripper Hose, 5	2	4	6
604511	Fitting, 6-6	2	4	6
683173	Hose (cylinder)	2	4	6
■	Tube	1	2	4
■	Tube	1	2	4
■	Tube	1	2	4
■	Valve	0	1	2
677125	▲ Cartridge (retract)	1	2	3
677124	▲ Cartridge (extract)	1	2	3
659058	▲ Cartridge (gripper check)	1	2	3
■	Valve	0	1	2
687224	● Cartridge (retract)	1	2	3
PUSH/PULL CYLINDER				
■	Cylinder	0	2	2
■	Cylinder Service Kit	2	4	6
FACEPLATE GROUP				
672844	Gripper Cylinder	0	2	4
684827	Gripper Cylinder Service Kit	2	4	8
683150	Bushing (faceplate)	4	8	8
672712	Gripper Pad	1	2	2
768794	Capcrew (gripper pad)	5	10	10
682846	Tube (gripper cylinder)	1	2	2
682847	Tube (gripper cylinder)	1	2	2
682848	Tube (gripper cylinder)	1	2	2
682849	Tube (gripper cylinder)	1	2	2
686573	Gripper Bearing	2	4	4

Recommended Spare Parts List

35E/45E QFM™ Push/Pull

PART NO.	DESCRIPTION	Attachments Serviced		
		1-5	6-19	20-50
STOP VALVE GROUP				
684572	Hydraulic Stop Valve	1	2	3
684568	Hose	1	2	3
674580	Spring	1	2	3
684575	Valve Actuator	1	2	3
671690	Valve Cartridge	1	2	3
630041	Spring	1	2	3
684568	Supply Hose	1	2	3
LUBRICANT				
200814	14 oz. Cartridge	1	3	5
PAINT				
685660	12 oz. Aerosol Can Heritage White	1	2	2
678236	12 oz. Aerosol Can Cascade Black	1	2	2
668209	12 oz. Aerosol Can Cascade Yellow	1	2	2
PUBLICATIONS				
688058	Parts Manual	1	1	2
686455	Service Manual	1	1	2
684945	Operators Guide	1	1	2
685531	Operators Pocket Guide	1	1	2
679929	Tool Catalog	1	2	2
VIDEOS				
680666	Servicing Cascade Cylinders - 3/4"	1	1	1
680664	Servicing Cascade Cylinders - VHS	1	1	1
680665	Servicing Cascade Cylinders - BETA	1	1	1

- ▲ For 682812 Valve.
- For 687384 Valves.
- See specific parts page.
- ▼ See page 6 for location.

[illegible]

**Do you have questions you need
answered right now?** Call your
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