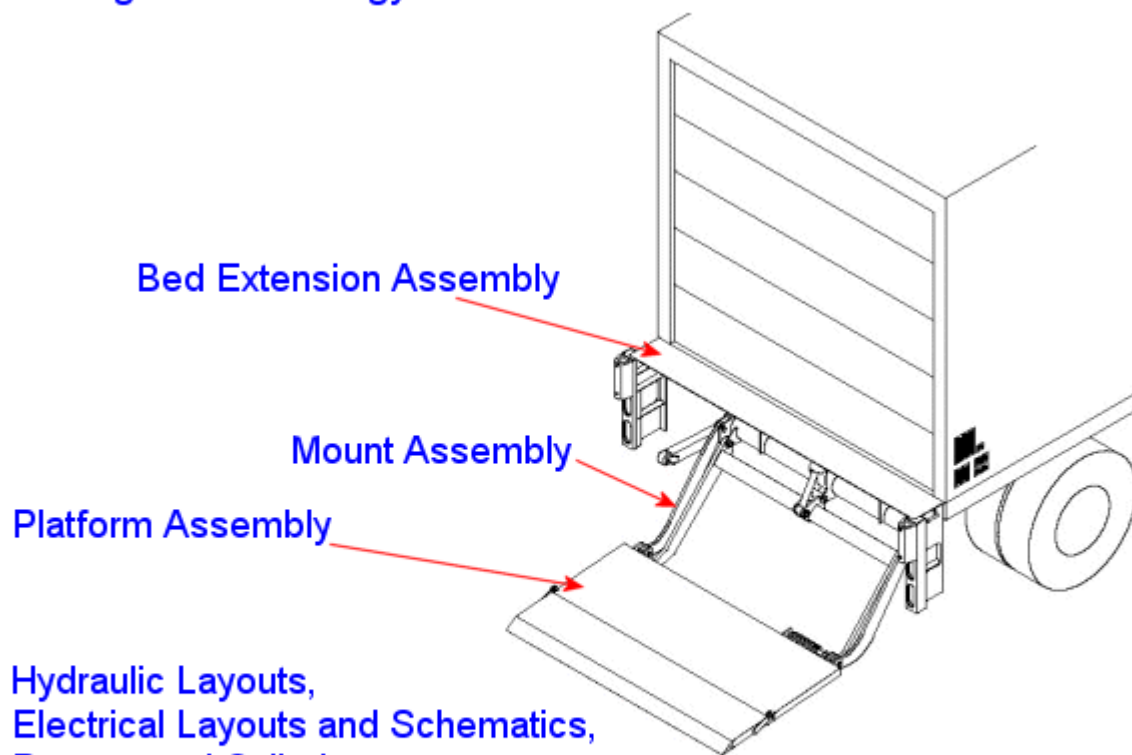


### E-Series / E-RM Series

Click the appropriate link below for the major component of the liftgate for which you are trying to find the correct part. If you are unsure of the name of the part in Waltco terminology, click the "Liftgate Terminology" link and it will take you to a document showing a picture of the liftgate with the common Waltco names for each of the parts.

#### E-Series / E-RM Series

#### [E Liftgate Terminology](#)



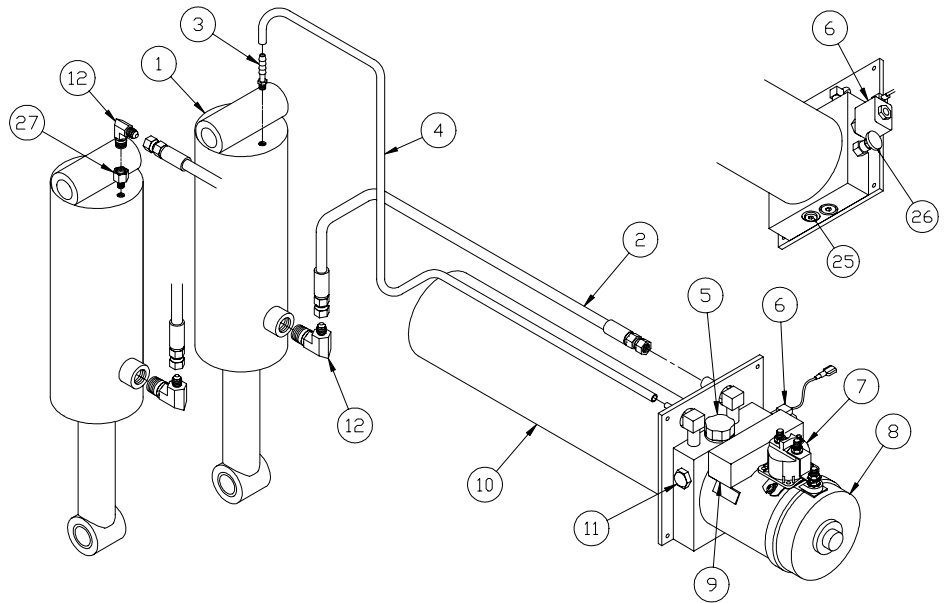
#### [Hydraulic Layouts, Electrical Layouts and Schematics, Pumps, and Cylinders](#)

[Prior to 2-92](#)  
[From 2-94 thru 3-96](#)  
[From 3-96 thru 2-00](#)  
[From 2-00](#)

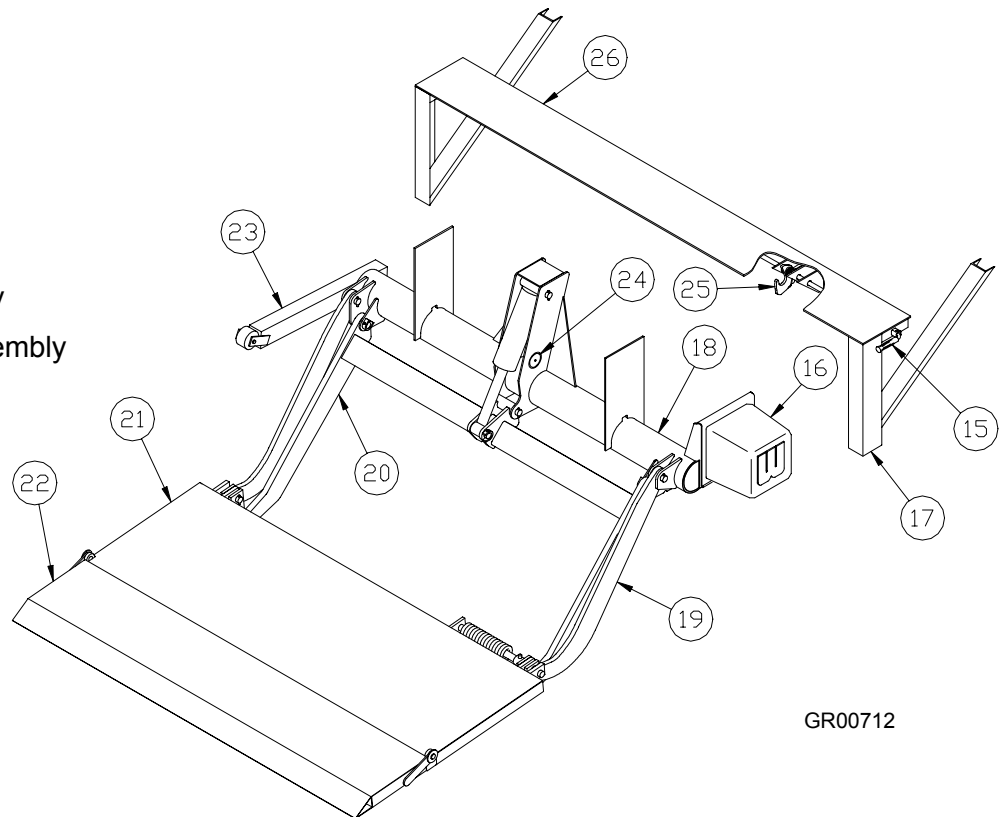
#### [Tech Tips](#)

# 1. LIFTGATE TERMINOLOGY

1. Hydraulic Cylinder
2. Hose Assembly
3. Return Line Barbed Fitting
4. Return Line
5. Breather
6. Dump Solenoid
7. Pump Unit Starter Solenoid
8. Pump Unit Motor
9. Thermalpak® with Voltage Guard™
10. Pump Unit Reservoir
11. Fluid Level Sight Glass
12. Hose fitting
13. Flow Control Valve
14. Drain Pug
15. Transit Latch Handle
16. Pump Unit Cover
17. Dock Bumper
18. Mount Tube Assembly
19. Parallel Arm
20. Lift Arm Assembly
21. Platform Deck Assembly
22. Platform Extension Assembly
23. Parting Bar
24. Specification Tag
25. Safety Hook
26. Bed Extension
27. Reducer (Power Down Only)

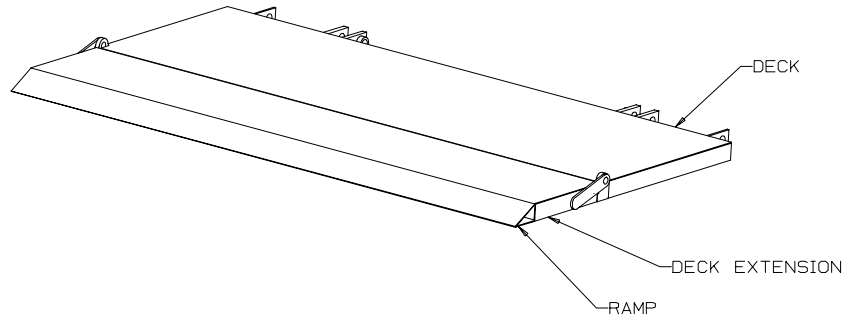


GR00711



GR00712

# E-SERIES PLATFORM ASSEMBLY



## Common Features

- Mid arm design – Thru 6/97  
Wide arm design After 6/97
- Platforms are 72" or 84" wide
- Platform depths as indicated below
- Two assist springs – Thru 6/97  
One assist spring – After 6/97
- Reduced Maintenance Design (No Grease required) (Released 6/97)
- Reduced Installation design (No Grease required. Pump attached to Mount Tube with reservoir inserted into Mount Tube) (Released 1/00)
- Available in two Lifting Capacities:  
E-25 – 2500 lb.  
E-30 – 3000 lb.  
(E-30 available only after 11/01)
- Torsion assisted Deck Extension folding (Available after 1/04) with 80" wide Platforms

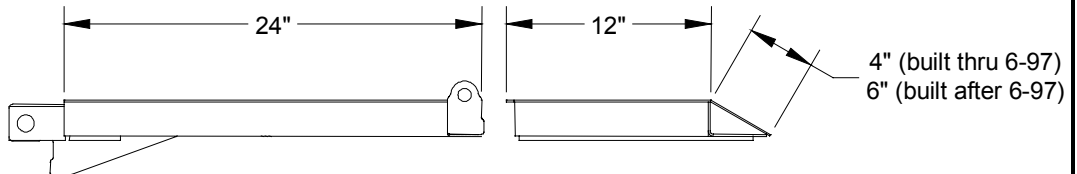
Capacity decal

**E-25** – 2500 Pounds

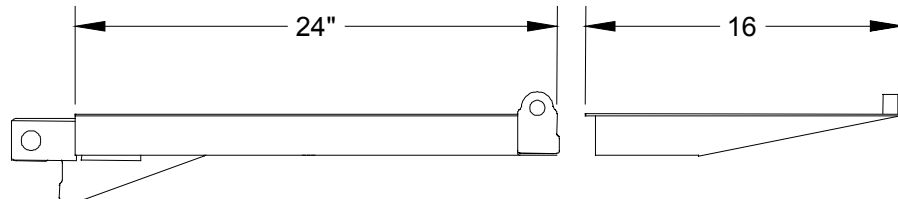
**E-30** – 3000 Pounds (Available only after 11/01)

## Platform depths

Standard  
4" Ramp thru 6/97  
6" Ramp after 6/97



Wedge (Available only after 6/97)



**PM-99** Built thru 6-97

**PM-410** Built 6-97 thru 1-00

**PM-521D** Built 1-00 thru 11-01

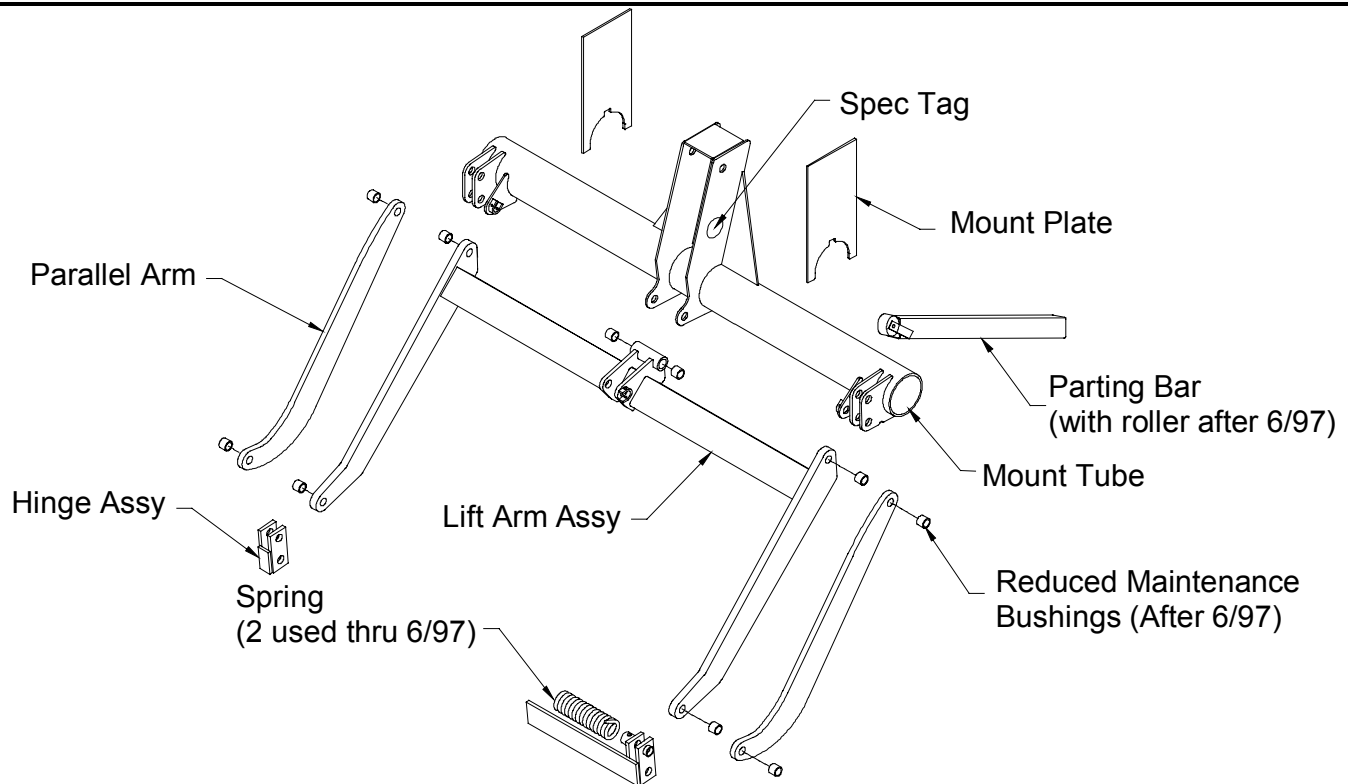
**PM-521** Built from 11-01 thru 3-03

**PM-521A** Built from 3-03 thru 8-03

**PM-521B** Built from 8-03 thru 1-04

**PM-521C** Built from 1-04

# E-SERIES MOUNT ASSEMBLY



## Common Features

- Mid arm design – Thru 6/97  
Wide arm design After 6/97
- Cylinder in tower
- Spec tag on cylinder tower
- Round mount tube
- Square lift tube
- Two independent hinge assemblies
- Two assist springs – Thru 6/97  
One assist spring – After 6/97
- Parting bar (with Roller after 6/97)
- Reduced Maintenance Design (No Grease required) (Released 6/97)
- Reduced Installation design (No Grease required. Pump attached to Mount Tube with reservoir inserted into Mount Tube) (Released 1/00)
- Available in two Lifting Capacities:  
E-25 – 2500 lb.  
E-30 – 3000 lb.  
(E-30 available only after 11/01)
- Torsion assisted Deck Extension folding (Available after 1/04) with 80" wide Platforms

**PM-99** Built thru 6-97

**PM-410** Built 6-97 thru 1-00

**PM-521D** Built 1-00 thru 11-01

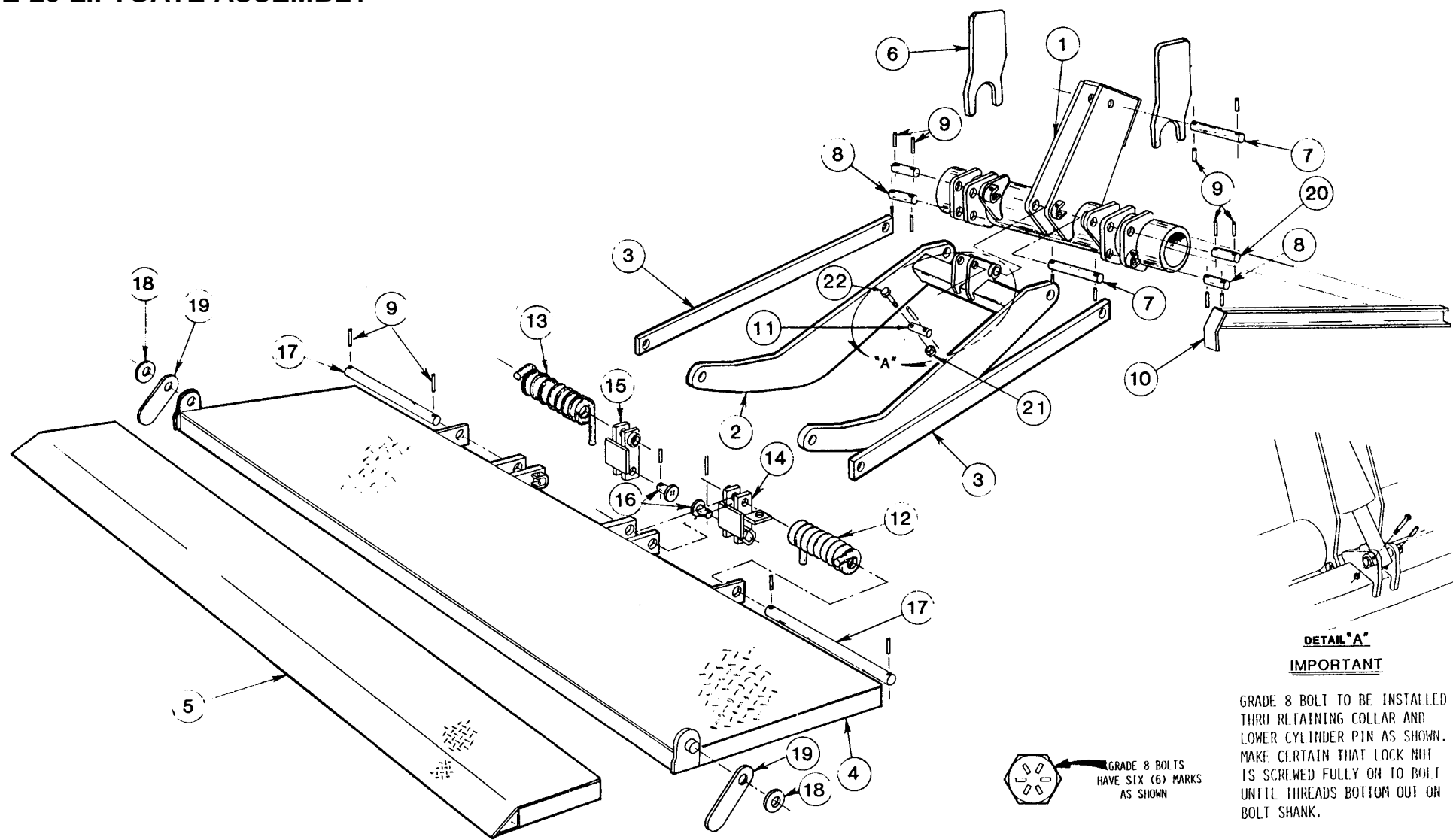
**PM-521** Built from 11-01 thru 3-03

**PM-521A** Built from 3-03 thru 8-03

**PM-521B** Built from 8-03 thru 1-04

**PM-521C** Built from 1-04

E-25 LIFTGATE ASSEMBLY



WALTCO  
TRUCK EQUIPMENT CO.  
E-25

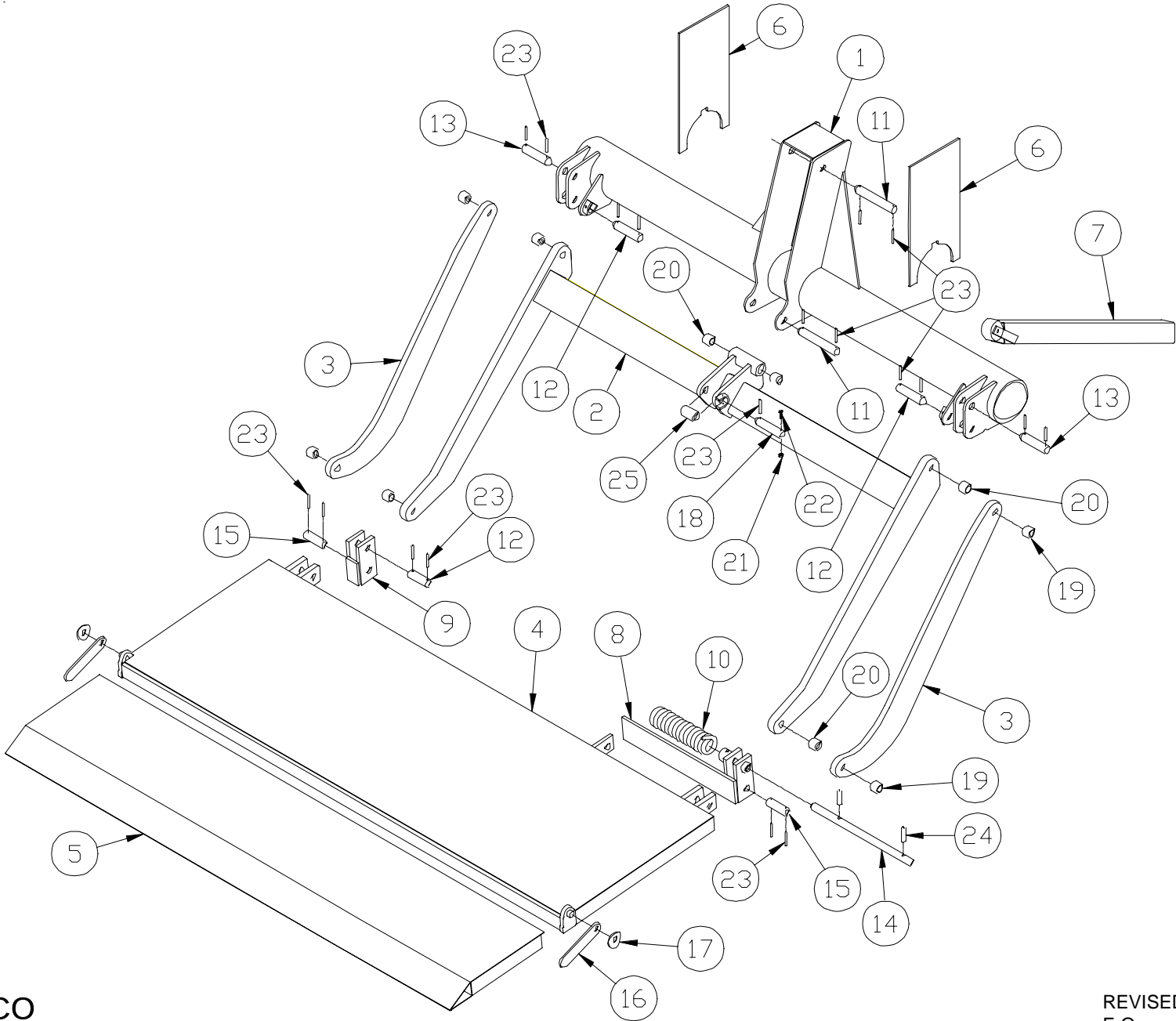
REVISED: 3-98  
E.O. 3462C  
REV. 06

PM-99

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26220000	1	Mount Frame Assembly
2	26230000	1	Lift Arm Assembly
3	26255000	2	Parallel Arm
--	26210034	--	Platform Assy Complete, 36" x 72" + 4"
--	26210064	--	Platform Assy Complete, 36" x 84" + 4"
4	26211072	1	Deck Assembly (72" Wide)
	26211084	1	Deck Assembly (84" Wide)
5	26213072	1	Deck Extension Assembly (72" Wide)
	26213084	1	Deck Extension Assembly (84" Wide)
6	26270100	2	Mount Plate
7	20270801*	2	Main Pin
8	20211200*	2	Pin
9	75089541*	19	Coiled Pin
10	22192000	1	Parting Bar Assembly
11	20271501*	1	Lower Cylinder Pin
12	26214301	1	Torsion Spring (Curb Side)
13	26214351	1	Torsion Spring (Street Side)
14	26251001	1	Stop Block Assembly (Curb Side)
15	26251051	1	Stop Block Assembly (Street Side)
16	26211100*	2	Stop Block Pin Assembly
17	26211200*	2	Deck Pin
18	75088058	2	3/4" Flat Washer
19	30155200	2	Link
20	20411201*	2	Pin
21	75085175*	1	1/4"-20 Nylon Locknut
22	75086215*	1	1/4"-20 x 2-1/2" lg. Hex Bolt (Grade 8)

\* Included in Pin Kit No. 80003410

E-25RM LIFTGATE ASSEMBLY



WALTCO  
TRUCK EQUIPMENT CO.  
E-25RM

REVISED: 09/28/01  
E.O. 4585  
REV. 04

PM-410

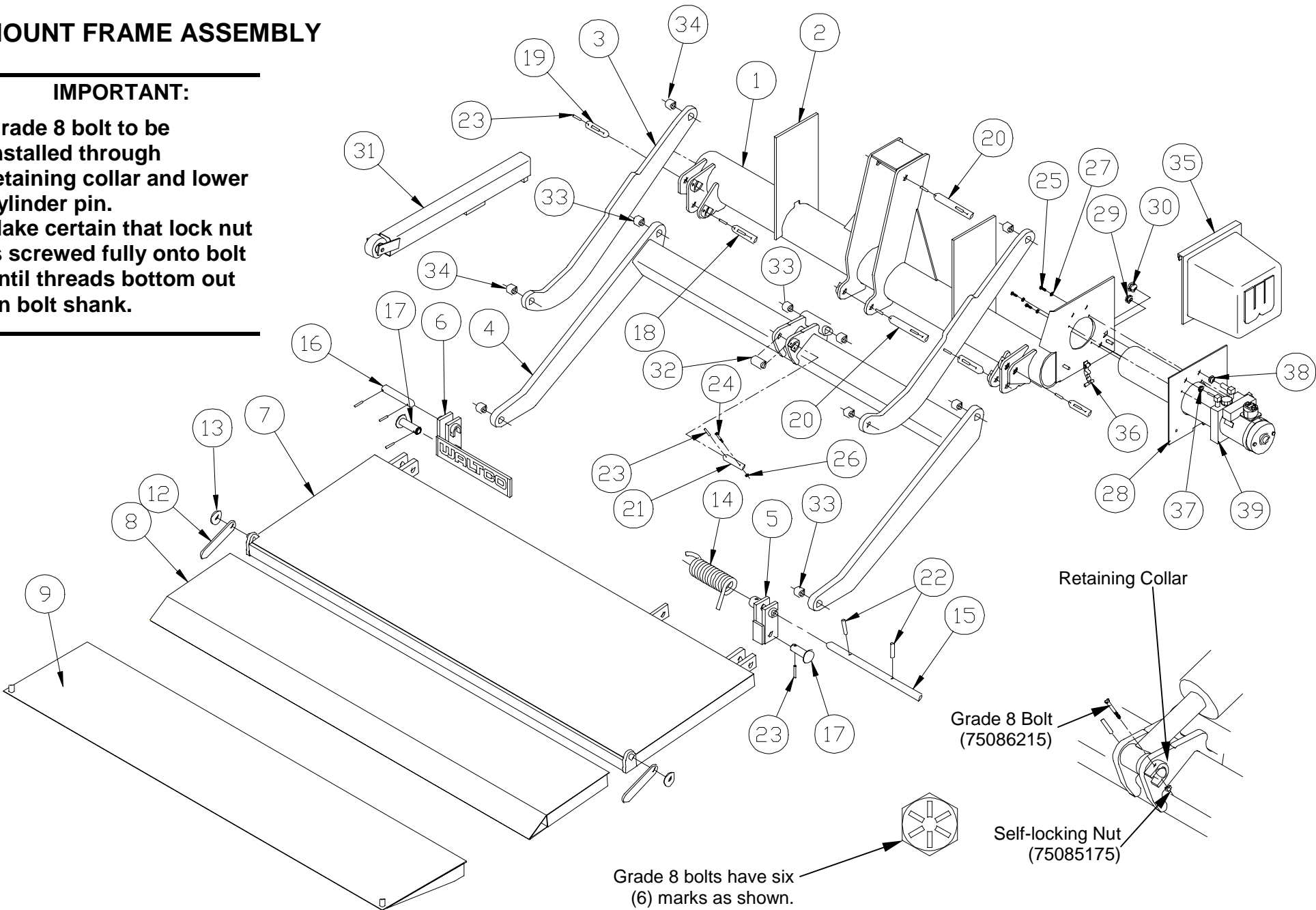
ITEM	PART NUMBER	QTY	DESCRIPTION
1	26220003	1	Mount Tube Assembly
2	26230003	1	Lift Arm Assembly
3	26250003	2	Parallel Arm Assembly
—	26210010	—	Platform Complete, 36" x 72" + 6"
	26210020		Platform Complete, 36" x 84" + 6"
	26210030		Platform Complete, 40" x 72" Wedge
	26210040		Platform Complete, 40" x 84" Wedge
4	26211001	1	Deck Assembly (72" Wide)
	26211002		Deck Assembly (84" Wide)
5	26213001	1	Deck Extension, 6" Ramp (72" Wide)
	26213002		Deck Extension, 6" Ramp (84" Wide)
	26213003		Deck Extension, Wedge (72" Wide)
	26213004		Deck Extension, Wedge (84" Wide)
6	25170100	2	Mount Plate
7	26292000	1	Parting Bar
8	26251000	1	Hinge Assembly, C.S. Half Dip
	26252000		Hinge Assembly, C.S. Full Dip (Wedge)
9	26251050	1	Hinge Assembly, D.S. Half Dip
	26252050		Hinge Assembly, D.S. Full Dip (Wedge)
10	22114300	1	Torsion Spring
11	20370300 <sup>ABC</sup>	2	Bearing Pin
12	20370400 <sup>AB</sup>	3	Lower Mount Pin
13	20370100 <sup>AB</sup>	2	Upper Mount Pin
14	26212100 <sup>AB</sup>	1	Hinge Pin
15	26212200 <sup>AB</sup>	2	Hinge Pin
16	30155200	2	Hinge Bar
17	75088058 <sup>B</sup>	2	3/4" SAE Washer
18	20271501 <sup>ABC</sup>	1	Lower Cylinder Pin
19	10010142 <sup>B</sup>	4	1" I.D. X 1-1/4" O.D. X 3/4" Long
20	85803391 <sup>B</sup>	6	1" I.D. X 1-1/4" O.D. X 1" Long
21	75085175 <sup>ABC</sup>	1	1/4"-20 Self Locking Nut
22	75086215 <sup>ABC</sup>	1	1/4"-20 x 2-1/2" Bolt (Grade 8)
23	75089541 <sup>ABC</sup>	18	1/4" x 1-7/8" Coiled Pin
24	75089542 <sup>AB</sup>	2	1/2" x 2-1/4" Coiled Pin
25	10010133 <sup>B</sup>	1	7/8" I.D. X 1-3/4" Long

<sup>A</sup> Included in pin kit No. 80000734.  
<sup>B</sup> Included in bearing replacement kit No. 80000730.  
<sup>C</sup> Included in Cylinder Replacement Kit 20295401.

MOUNT FRAME ASSEMBLY

**IMPORTANT:**

Grade 8 bolt to be installed through retaining collar and lower cylinder pin. Make certain that lock nut is screwed fully onto bolt until threads bottom out on bolt shank.



WALTCO  
TRUCK EQUIPMENT CO.  
E-25RM, E-30RM

REVISED: 8/1/03  
E.O. 5136  
REV. 02

**PM-521B**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26320004	1	Mount Frame
2	25170100	2	Mount Plate
3	26250003	2	Parallel Arm Assembly
	26350003		Parallel Arm Assembly E-30 only
4	26230003	1	Lift Arm Assembly
5	26351002 <sup>D</sup>	1	Hinge Assembly, Curb Side, half dip
	26352002 <sup>E</sup>		Hinge Assembly, Curb Side, wedge
6	26351052 <sup>D</sup>	1	Hinge Assembly, Driver's Side, half dip
	26352052 <sup>E</sup>		Hinge Assembly, Driver's Side, wedge
7	26311001	1	Deck Assembly (72" wide)
	26311002		Deck Assembly (84" wide)
8	26213101	1	Deck Extension, 6" Ramp (72" wide)
	26213102		Deck Extension, 6" Ramp (84" wide)
9	26213103	1	Deck Extension, Wedge (72" wide)
	26213104		Deck Extension, Wedge (84" wide)
10	26310110	1	Platform Complete, 36" x 72" + 6"
	26310120		Platform Complete, 36" x 84" + 6"
11	26310130	1	Platform Complete, 40" x 72" Wedge
	26310140		Platform Complete, 40" x 84" Wedge
12	30155200	2	Hinge Bar (6" Ramp Extensions only)
13	75088066	2	3/4" S.A.E. Washer
14	22114300	1	Torsion Spring
15	26212100 <sup>A</sup>	1	Hinge Pin
16	20370400 <sup>A</sup>	1	Lower Parallel Arm Pin
17	26312200 <sup>A D E</sup>	2	Lower Lift Arm Pin
18	20370200 <sup>A</sup>	2	Upper Lift Arm Pin
19	20370100 <sup>A</sup>	2	Upper Parallel Arm Pin
20	20370300 <sup>A C</sup>	2	Bearing Pin
21	20271501 <sup>AC</sup>	1	Lower Cylinder Pin
22	75089542 <sup>ABDE</sup>	2	Roll Pin, Ø1/2" x 2" lg.
23	75089541 <sup>ABCDE</sup>	17	Roll Pin, Ø1/4" x 1-7/8" lg.
24	75086215 <sup>A BC</sup>	1	1/4"-20 x 2-1/2" Bolt (Grade 8)
25	75086212	3	1/4"-20 x 1-1/4" lg. Bolt
26	75085175 <sup>A BC</sup>	1	1/4-20 Self-locking Nut
27	75088079	3	1/4" Lock Washer
28	10090460	1	Gasket, Pump Cover
29	75089334	1	Grommet, for Battery Cable
30	75089342	1	Grommet, for Control Cord
31	26292000	1	Parting Bar
32	10010171 <sup>B</sup>	1	Bearing, 7/8" I.D. x 1-3/4" Long

ITEM	PART NUMBER	QTY	DESCRIPTION
33	85803391 <sup>B</sup>	6	Bearing, 1" I.D. x 1-1/4" O.D. x 1" Long
34	10010142 <sup>B</sup>	4	Bearing, 1" I.D. x 1-1/4" O.D. x 3/4" Long
35	10090450	1	Pump Cover (with Latch)
36	27391301	1	Pump Cover Latch (Not Shown)
37	70401409	1	Grommet for ¼" hose stem fitting
38	70401408	1 or 2	Grommet for 7/16" JIC fitting
39	See individual Parts Manual for Power Unit information.		

<sup>A</sup> Included in Pin Replacement Kit 80000734.

<sup>B</sup> Included in Bearing Replacement Kit 80000730.

<sup>C</sup> Included in Cylinder Replacement Kit 20295401.

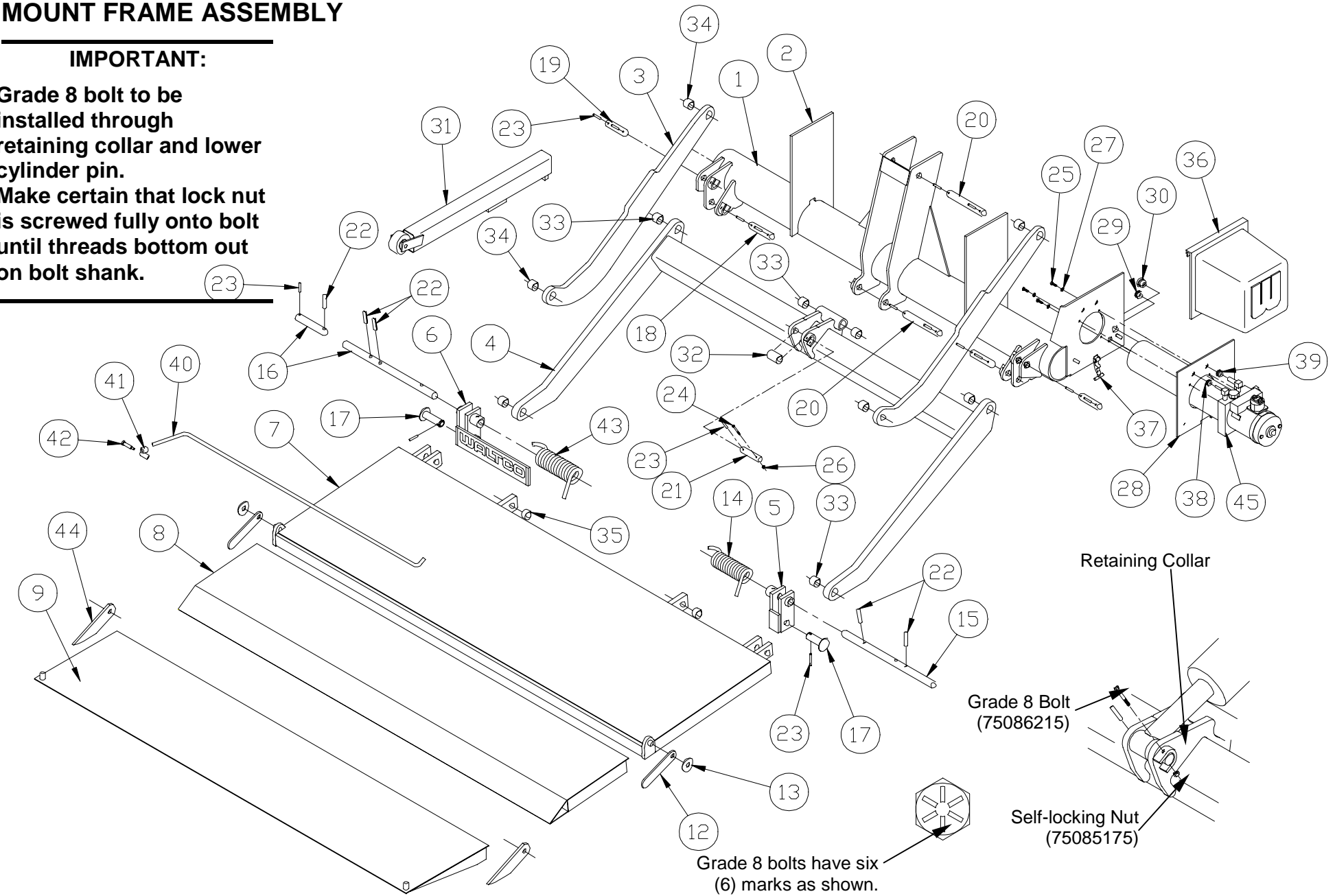
<sup>D</sup> Included in Hinge Assembly Replacement Kit (half dip) 80000970.

<sup>E</sup> Included in Hinge Assembly Replacement Kit (wedge) 80000971

MOUNT FRAME ASSEMBLY

IMPORTANT:

Grade 8 bolt to be installed through retaining collar and lower cylinder pin. Make certain that lock nut is screwed fully onto bolt until threads bottom out on bolt shank.



WALTCO  
TRUCK EQUIPMENT CO.  
E-25RM, E-30RM

REVISED: 9-26-03  
E.O. 5034  
REV. 01  
**PM-521C**

ITEM	PART NUMBER	QTY	DESCRIPTION	WIDTH
1	26320004	1	Mount Frame	
2	25170100	2	Mount Plate	
3	26250003	2	Parallel Arm Assembly	
	26350003		Parallel Arm Assembly E-30 only	
4	26230003	1	Lift Arm Assembly	
5	26351002 <sup>A</sup>	1	Hinge Assembly, Curb Side, half dip	
	26352002 <sup>B</sup>		Hinge Assembly, Curb Side, wedge	
6	26351052 <sup>A</sup>	1	Hinge Ass'y, Driver Side, half dip	
	26352052 <sup>B</sup>		Hinge Ass'y, Driver Side, wedge	
7	26311001	1	Deck Assembly	72
	26311080		Deck Assembly	80
8	26213101	1	Deck Extension, 6" Ramp	72
	26313006		Deck Extension, 6" Ramp	80
9	26213103	1	Deck Extension, Wedge	72
	26313008		Deck Extension, Wedge	80
10	26310110	1	Platform, 36" x 72" + 6"	72
	26310006		Platform, 36" x 80" + 6"	80
11	26310130	1	Platform, 40" x 72" Wedge	72
	26310008		Platform, 40" x 80" Wedge	80
12	30155200	2	Hinge Bar	
13	75088066	2	3/4" S.A.E. Washer	
14	22114300	1	Torsion Spring	
15	26212100 <sup>ABEF</sup>	1	Lower Parallel Arm Pin, Curb Side	
16	20370400 <sup>ABE</sup>	1	Lower Parallel Arm Pin, Driver Side	72
	26212100 <sup>ABEF</sup>		Lower Parallel Arm Pin	80
17	26312200 <sup>ABEF</sup>	2	Lower Lift Arm Pin	
18	20370200 <sup>EF</sup>	2	Upper Lift Arm Pin	
19	20370100 <sup>EF</sup>	2	Upper Parallel Arm Pin	
20	20370300 <sup>EF</sup>	2	Bearing Pin	
21	20271501 <sup>EF</sup>	1	Lower Cylinder Pin	
22	75089542 <sup>ABCDEF</sup>	3	Roll Pin, Ø1/2" x 2" lg.	72
		4	Roll Pin, Ø1/2" x 2" lg.	80

ITEM	PART NUMBER	QTY	DESCRIPTION	WIDTH
23	75089541 <sup>ABCDEFG</sup>	16	Roll Pin, Ø1/4" x 1-7/8" lg.	72
		15	Roll Pin, Ø1/4" x 1-7/8" lg.	80
24	75086215 <sup>CDEFG</sup>	1	1/4"-20 x 2-1/2" Bolt (Grade 8)	
25	75086212	3	1/4"-20 x 1-1/4" lg. Bolt	
26	75085175 <sup>CDEFG</sup>	1	1/4-20 Self-locking Nut	
27	75088079	3	1/4" Lock Washer	
28	10090460	1	Gasket, Pump Cover	
29	75089334	1	Grommet, for Battery Cable	
30	75089342	1	Grommet, for Control Cord	
31	26292000	1	Parting Bar	
32	10010171 <sup>CD</sup>	1	Bearing, 7/8" I.D. x 1-3/4" Long	
33	85803391 <sup>CD</sup>	6	Bearing, 1" I.D. x 1" Long	
34	10010142 <sup>C</sup>	4	Bearing, 1" I.D. x 3/4" Long	
	10010140 <sup>D</sup>		Bearing, 1" I.D. x 1" Long	
35	10010142 <sup>CD</sup>	2	Bearing, 1" I.D. x 3/4" Long	80
36	10090450	1	Pump Cover (with Latch)	
37	27391301	1	Pump Cover Latch	
38	70401409	1	Grommet for ¼" hose stem fitting	
39	70401408	1 or 2	Grommet for 7/16" JIC fitting	
40	26317100	1	Torsion Bar	80
41	26317300	1	Torsion Bar Pivot Assembly	80
42	75087574	1	Shoulder Screw, 3/8"	80
43	21514301	1	Torsion Spring	80
44	22113700	2	Hinge Bar	
45	See Power Unit PM's			

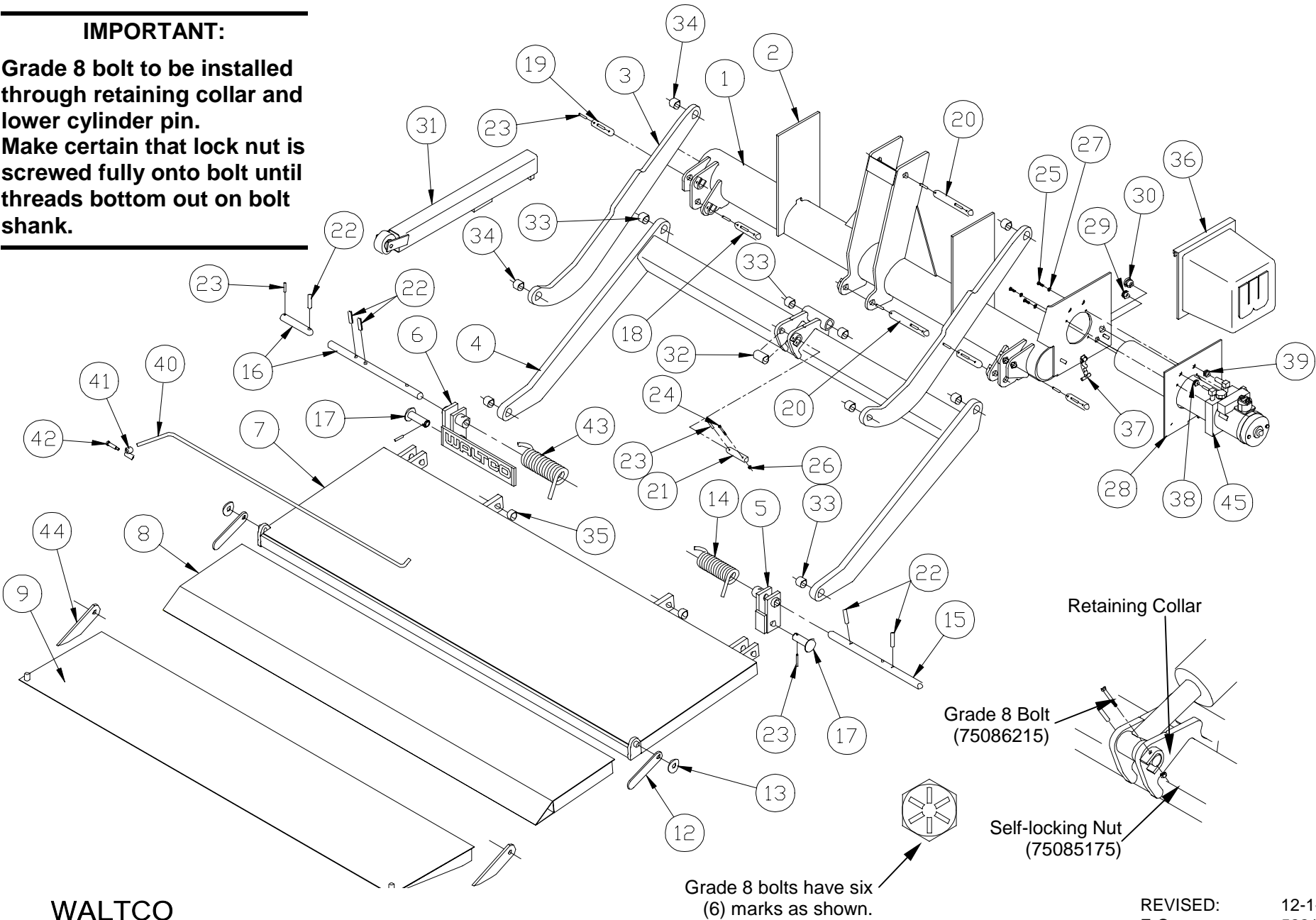
<sup>A</sup> Included in Hinge Assembly Replacement Kit (half dip) 80000970  
<sup>B</sup> Included in Hinge Assembly Replacement Kit (wedge) 80000971  
<sup>C</sup> Included in E-25RM Bearing Replacement Kit 80000730  
<sup>D</sup> Included in E-30RM Bearing Replacement Kit 80001034  
<sup>E</sup> Included in Pin Replacement Kit 80000734  
<sup>F</sup> Included in Pin Replacement Kit 80001033  
<sup>G</sup> Included in Cylinder Replacement Kit 20295401

**72** = 72" wide platforms only  
**80** = 80" wide platforms only

MOUNT FRAME ASSEMBLY

IMPORTANT:

Grade 8 bolt to be installed through retaining collar and lower cylinder pin. Make certain that lock nut is screwed fully onto bolt until threads bottom out on bolt shank.



WALTCO  
TRUCK EQUIPMENT CO.  
E-25RM

REVISED: 12-1-03  
E.O. 5221  
REV. 01

PM-521D

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26220004	1	Mount Frame (with mount plates)
2	25170100	2	Mount Plate
3	26250003	2	Parallel Arm Assembly
4	26230003	1	Lift Arm Assembly
5	26251002	1	Hinge Assembly, Curb Side, half dip
	26252002		Hinge Assembly, Curb Side, wedge
6	26251052	1	Hinge Assembly, Driver's Side, half dip
	26252052		Hinge Assembly, Driver's Side, wedge
7	26211001	1	Deck Assembly (72" wide)
	26211002		Deck Assembly (84" wide)
8	26213101	1	Deck Extension, 6" Ramp (72" wide)
	26213102		Deck Extension, 6" Ramp (84" wide)
	26213103		Deck Extension, Wedge (72" wide)
	26213104		Deck Extension, Wedge (84" wide)
	26210110		Platform Complete, 36" x 72" + 6"
	26210120		Platform Complete, 36" x 84" + 6"
	26210130		Platform Complete, 40" x 72" Wedge
	26210140		Platform Complete, 40" x 84" Wedge
9	30155200	2	Hinge Bar (6" Ramp Extensions only)
10	75088066	2	3/4" S.A.E. Washer
11	22114300	1	Torsion Spring
12	26212100 <sup>A</sup>	1	Hinge Pin
13	20370400 <sup>A</sup>	1	Lower Parallel Arm Pin
14	26212200 <sup>A</sup>	2	Lower Lift Arm Pin
15	20370200 <sup>A</sup>	2	Upper Lift Arm Pin
16	20370100 <sup>A</sup>	2	Upper Parallel Arm Pin
17	20370300 <sup>A</sup>	2	Bearing Pin
18	20271501 <sup>A</sup>	1	Lower Cylinder Pin
19	75089542 <sup>A B</sup>	2	Roll Pin, Ø1/2" x 2" lg.
20	75089541 <sup>A B</sup>	19	Roll Pin, Ø1/4" x 1-7/8" lg.
21	75086215 <sup>A B</sup>	1	1/4"-20 x 2-1/2" Bolt (Grade 8)
22	75086212	4	1/4"-20 x 1-1/4" lg. Bolt
23	75085175 <sup>A B</sup>	1	1/4-20 Self-locking Nut
24	75088079	4	1/4" Lock Washer
25	10090410	1	Gasket, Pump Cover
26	10090300	1	Plug
27	26292000	1	Parting Bar
28	10010133 <sup>B</sup>	1	Bearing, 7/8" I.D. x 1-3/4" Long
29	85803391 <sup>B</sup>	6	Bearing, 1" I.D. x 1-1/4" O.D. x 1" Long
30	10010142 <sup>B</sup>	4	Bearing, 1" I.D. x 1-1/4" O.D. x 3/4" Long

ITEM	PART NUMBER	QTY	DESCRIPTION
31	10090400	1	Pump Cover (with Latch)
32	10090420	1	Pump Cover Latch (Not Shown)
33	See individual Parts Manual for Power Unit information.		

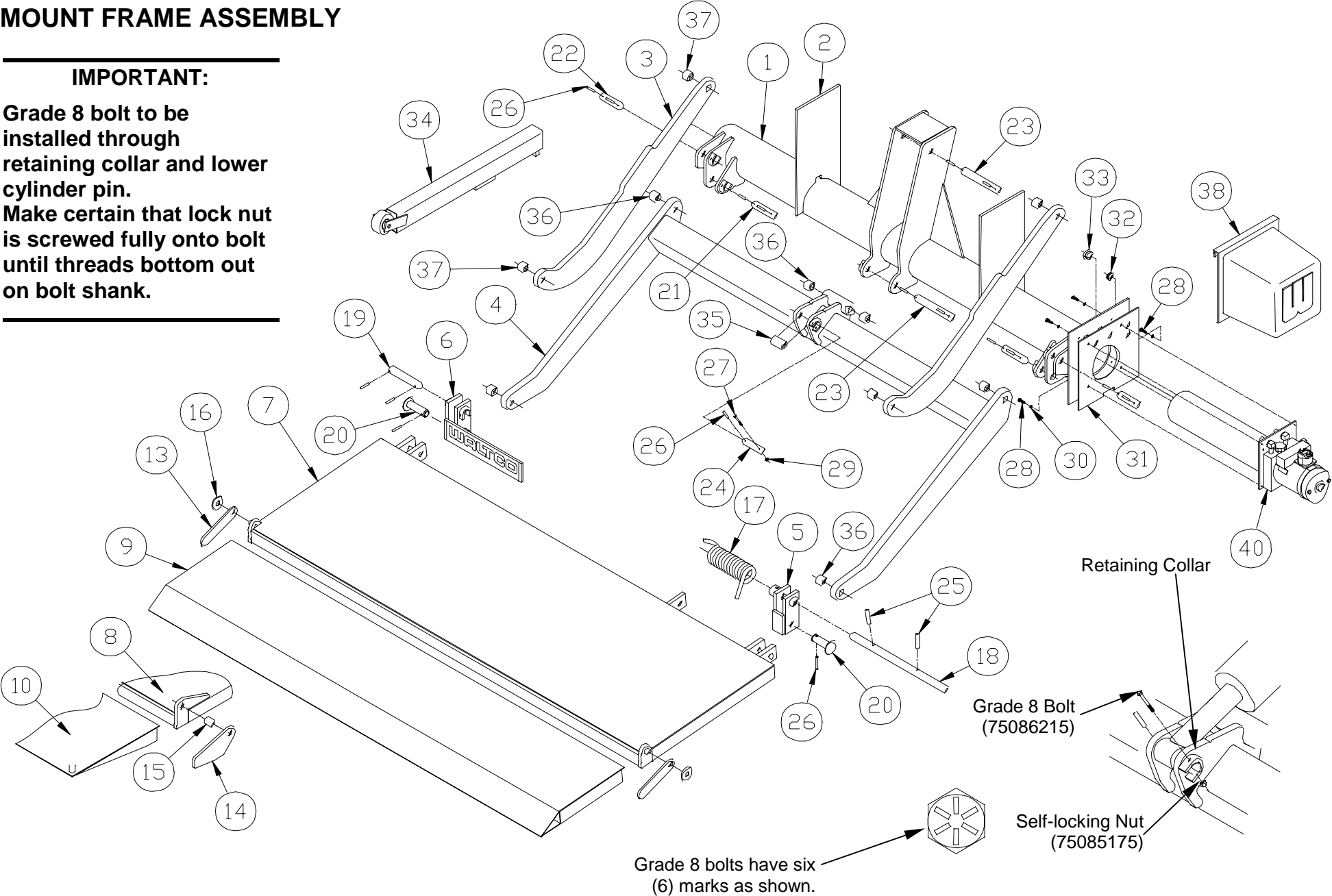
<sup>A</sup> Included in Pin Replacement Kit 80000734.

<sup>B</sup> Included in Bearing Replacement Kit 80000730.

MOUNT FRAME ASSEMBLY

**IMPORTANT:**

Grade 8 bolt to be installed through retaining collar and lower cylinder pin. Make certain that lock nut is screwed fully onto bolt until threads bottom out on bolt shank.



WALTCO  
TRUCK EQUIPMENT CO.  
E-25RM, E-30RM

REVISED: 3/21/03  
E.O. 4978  
REV. 07

PM-521

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26220004	1	Mount Frame
2	25170100	2	Mount Plate
3	26250003	2	Parallel Arm Assembly
	26350003		Parallel Arm Assembly E-30 only
4	26230003	1	Lift Arm Assembly
5	26351002 <sup>D</sup>	1	Hinge Assembly, Curb Side, half dip
	26352002 <sup>E</sup>		Hinge Assembly, Curb Side, wedge
6	26351052 <sup>D</sup>	1	Hinge Assembly, Driver's Side, half dip
	26352052 <sup>E</sup>		Hinge Assembly, Driver's Side, wedge
7	26211001	1	Deck Assembly (72" wide)
	26211002		Deck Assembly (84" wide)
	26311001		Deck Assembly (72" wide) E-30 only
8	26211003	1	Deck Assembly, Wedge (72" wide)
	26211004		Deck Assembly, Wedge (84" wide)
	26311003		Deck Assembly, Wedge (72" wide) E-30 only
9	26213101	1	Deck Extension, 6" Ramp (72" wide)
	26213102		Deck Extension, 6" Ramp (84" wide)
10	26213103	1	Deck Extension, Wedge (72" wide)
	26213104		Deck Extension, Wedge (84" wide)
11	26210110	1	Platform Complete, 36" x 72" + 6"
	26210120		Platform Complete, 36" x 84" + 6"
	26310110		Platform Complete, 36" x 72" + 6" E-30 only
12	26210130	1	Platform Complete, 40" x 72" Wedge
	26210140		Platform Complete, 40" x 84" Wedge
	26310130		Platform Complete, 40" x 72" Wedge E-30 only
13	30155200	2	Hinge Bar (6" Ramp Extensions only)
14	20713700	2	Hinge Bar ( Wedge Platforms only)
15	20610900	2	Hinge Pin, Platform
16	75088066	2	3/4" S.A.E. Washer
17	22114300	1	Torsion Spring
18	26212100 <sup>A</sup>	1	Hinge Pin
19	20370400 <sup>A</sup>	1	Lower Parallel Arm Pin
20	26312200 <sup>A D E</sup>	2	Lower Lift Arm Pin
21	20370200 <sup>A</sup>	2	Upper Lift Arm Pin
22	20370100 <sup>A</sup>	2	Upper Parallel Arm Pin
23	20370300 <sup>A C</sup>	2	Bearing Pin
24	20271501 <sup>A C</sup>	1	Lower Cylinder Pin

ITEM	PART NUMBER	QTY	DESCRIPTION
25	75089542 <sup>A B D E</sup>	2	Roll Pin, Ø1/2" x 2" lg.
26	75089541 <sup>A B C D E</sup>	17	Roll Pin, Ø1/4" x 1-7/8" lg.
27	75086215 <sup>A B C</sup>	1	1/4"-20 x 2-1/2" Bolt (Grade 8)
28	75086212	4	1/4"-20 x 1-1/4" lg. Bolt
29	75085175 <sup>A B C</sup>	1	1/4-20 Self-locking Nut
30	75088079	4	1/4" Lock Washer
31	10090410	1	Gasket, Pump Cover
32	75089334	1	Grommet, for Battery Cable
33	75089342	1	Grommet, for Control Cord
34	26292000	1	Parting Bar
35	10010133 <sup>B</sup>	1	Bearing, 7/8" I.D. x 1-3/4" Long
36	85803391 <sup>B</sup>	6	Bearing, 1" I.D. x 1-1/4" O.D. x 1" Long
37	10010142 <sup>B</sup>	4	Bearing, 1" I.D. x 1-1/4" O.D. x 3/4" Long
38	10090400	1	Pump Cover (with Latch)
39	10090420	1	Pump Cover Latch (Not Shown)
40	See individual Parts Manual for Power Unit information.		

<sup>A</sup> Included in Pin Replacement Kit 80000734.

<sup>B</sup> Included in Bearing Replacement Kit 80000730.

<sup>C</sup> Included in Cylinder Replacement Kit 20295401.

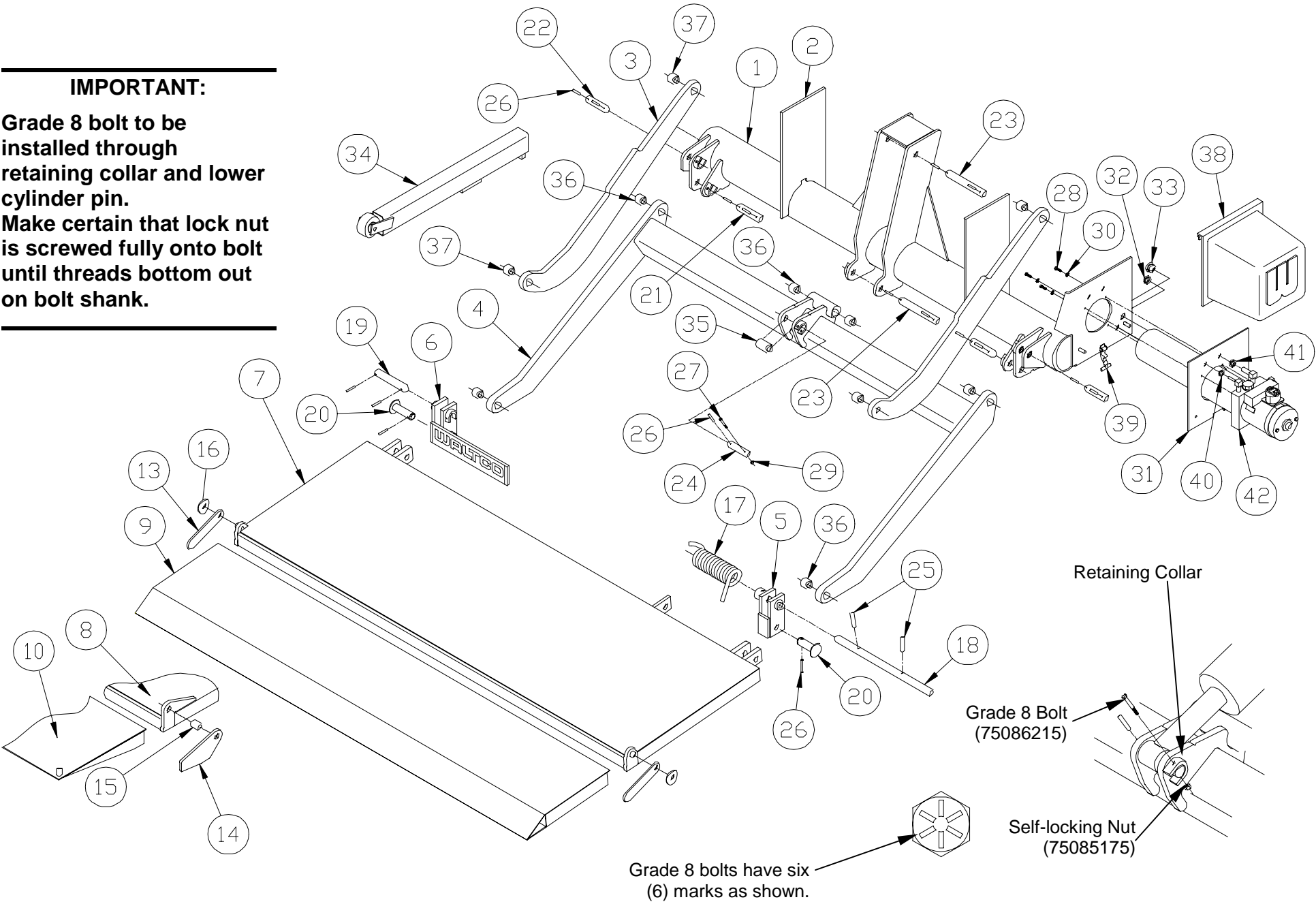
<sup>D</sup> Included in Hinge Assembly Replacement Kit (half dip) 80000970.

<sup>E</sup> Included in Hinge Assembly Replacement Kit (wedge) 80000971

MOUNT FRAME ASSEMBLY

IMPORTANT:

Grade 8 bolt to be installed through retaining collar and lower cylinder pin. Make certain that lock nut is screwed fully onto bolt until threads bottom out on bolt shank.



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E-25RM, E-30RM

REVISED: 5/30/03  
E.O. 5038  
REV. 02

PM-521A

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26220004	1	Mount Frame E-25
	26320004	1	Mount Frame E-30
2	25170100	2	Mount Plate
3	26250003	2	Parallel Arm Assembly
	26350003		Parallel Arm Assembly E-30 only
4	26230003	1	Lift Arm Assembly
5	26351002 <sup>D</sup>	1	Hinge Assembly, Curb Side, half dip
	26352002 <sup>E</sup>		Hinge Assembly, Curb Side, wedge
6	26351052 <sup>D</sup>	1	Hinge Assembly, Driver's Side, half dip
	26352052 <sup>E</sup>		Hinge Assembly, Driver's Side, wedge
7	26211001	1	Deck Assembly (72" wide)
	26211002		Deck Assembly (84" wide)
	26311001		Deck Assembly (72" wide) E-30 only
	26311003		Deck Assembly, Wedge (72" wide) E-30 only
8	26211003	1	Deck Assembly, Wedge (72" wide)
	26211004		Deck Assembly, Wedge (84" wide)
	26311003		Deck Assembly, Wedge (72" wide) E-30 only
9	26213101	1	Deck Extension, 6" Ramp (72" wide)
	26213102		Deck Extension, 6" Ramp (84" wide)
10	26213103	1	Deck Extension, Wedge (72" wide)
	26213104		Deck Extension, Wedge (84" wide)
11	26210110	1	Platform Complete, 36" x 72" + 6"
	26210120		Platform Complete, 36" x 84" + 6"
	26310110		Platform Complete, 36" x 72" + 6" E-30 only
12	26210130	1	Platform Complete, 40" x 72" Wedge
	26210140		Platform Complete, 40" x 84" Wedge
	26310130		Platform Complete, 40" x 72" Wedge E-30 only
13	30155200	2	Hinge Bar (6" Ramp Extensions only)
14	20713700	2	Hinge Bar ( Wedge Platforms only)
15	20610900	2	Hinge Pin, Platform
16	75088066	2	3/4" S.A.E. Washer
17	22114300	1	Torsion Spring
18	26212100 <sup>A</sup>	1	Hinge Pin
19	20370400 <sup>A</sup>	1	Lower Parallel Arm Pin
20	26312200 <sup>A DE</sup>	2	Lower Lift Arm Pin

ITEM	PART NUMBER	QTY	DESCRIPTION
21	20370200 <sup>A</sup>	2	Upper Lift Arm Pin
22	20370100 <sup>A</sup>	2	Upper Parallel Arm Pin
23	20370300 <sup>A C</sup>	2	Bearing Pin
24	20271501 <sup>AC</sup>	1	Lower Cylinder Pin
25	75089542 <sup>ABDE</sup>	2	Roll Pin, Ø1/2" x 2" lg.
26	75089541 <sup>ABCDE</sup>	17	Roll Pin, Ø1/4" x 1-7/8" lg.
27	75086215 <sup>A BC</sup>	1	1/4"-20 x 2-1/2" Bolt (Grade 8)
28	75086212	3	1/4"-20 x 1-1/4" lg. Bolt
29	75085175 <sup>A BC</sup>	1	1/4-20 Self-locking Nut
30	70091724	3	1/4" Star Washer
31	10090460	1	Gasket, Pump Cover
32	75089334	1	Grommet, for Battery Cable
33	75089342	1	Grommet, for Control Cord
34	26292000	1	Parting Bar
35	10010133 <sup>B</sup>	1	Bearing, 7/8" I.D. x 1-3/4" Long
36	85803391 <sup>B</sup>	6	Bearing, 1" I.D. x 1-1/4" O.D. x 1" Long
37	10010142 <sup>B</sup>	4	Bearing, 1" I.D. x 1-1/4" O.D. x 3/4" Long
38	10090450	1	Pump Cover (with Latch)
39	27391301	1	Pump Cover Latch (Not Shown)
40	70401409	1	Grommet for ¼" hose stem fitting
41	70401408	1 or 2	Grommet for 7/16" JIC fitting
42	See individual Parts Manual for Power Unit information.		

<sup>A</sup> Included in Pin Replacement Kit 80000734.

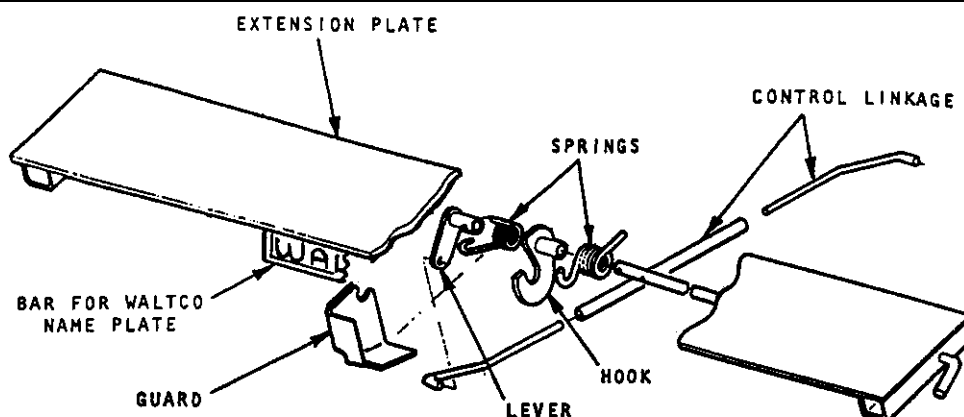
<sup>B</sup> Included in Bearing Replacement Kit 80000730.

<sup>C</sup> Included in Cylinder Replacement Kit 20295401.

<sup>D</sup> Included in Hinge Assembly Replacement Kit (half dip) 80000970.

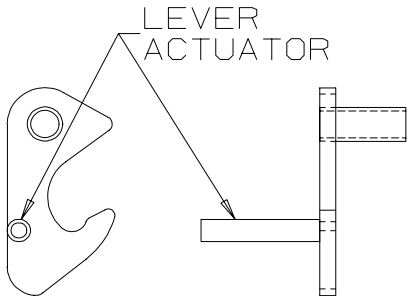
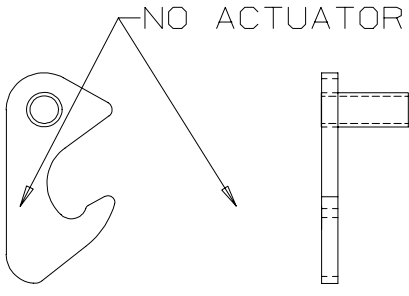
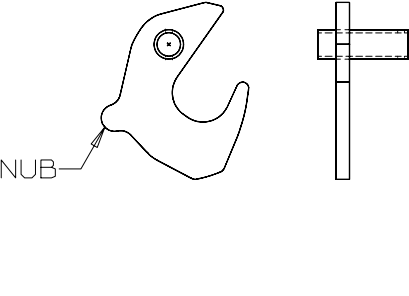
<sup>E</sup> Included in Hinge Assembly Replacement Kit (wedge) 80000971

# E-SERIES BED EXTENSION ASSEMBLY

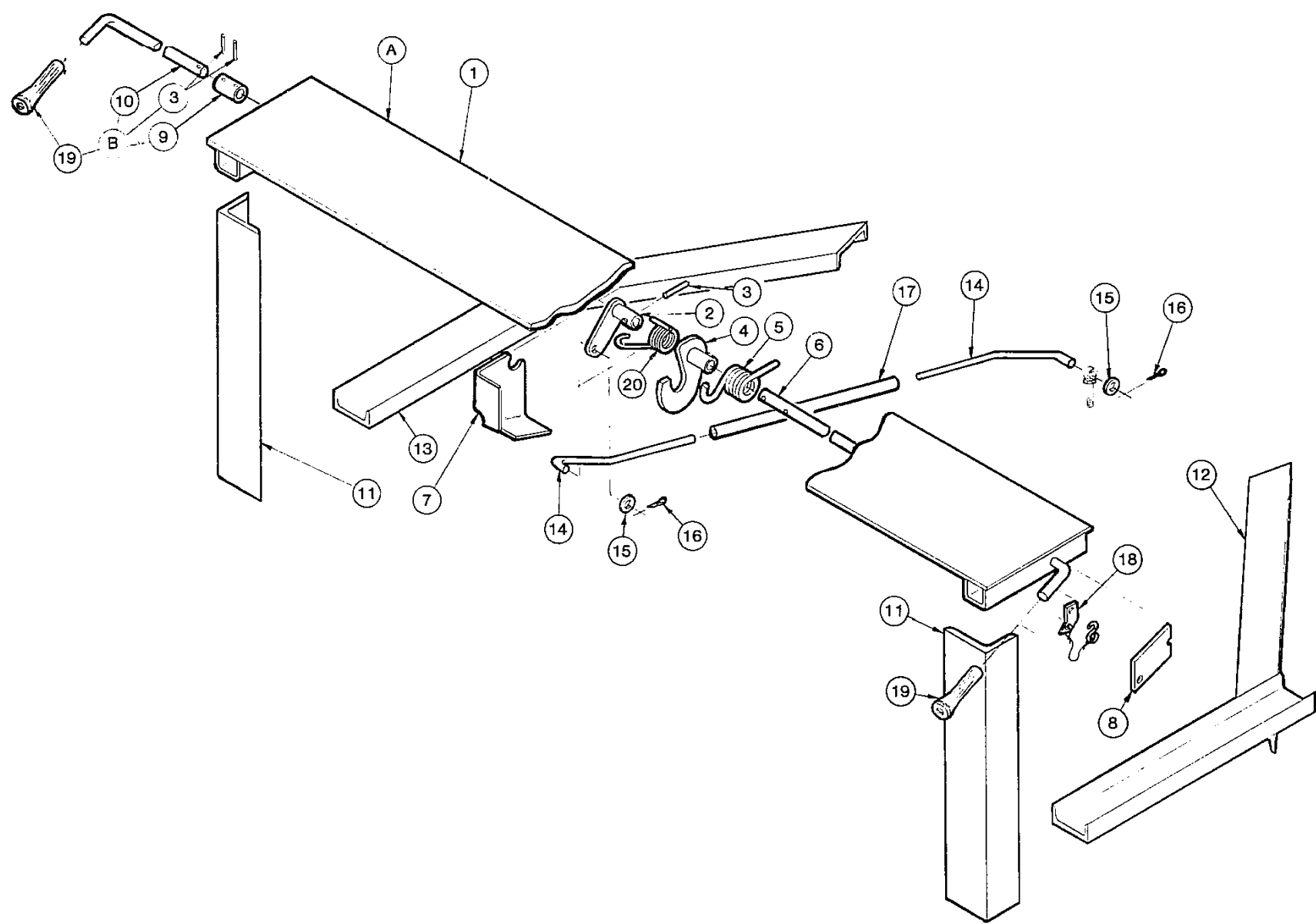


## Common Features

- 10" deep extension plate
- 94" or 100" wide extension plate

<b>PM-189</b> Built thru 2/94	<b>PM-381</b> Built from 2-94 thru 3-95	<b>PM-189A</b> Built from 3-95 thru 3-96 <b>PM-417</b> Built from 3-96 thru 1-00 <b>PM-508</b> Built from 1-00 thru 5-03 <b>PM-508A</b> Built from 5-03
Manual or Electric Controls	Electric Controls Only	Electric Controls Only
Guard	No guard	No guard
Two springs	One spring	One spring
Lever	No lever	No lever
Control linkage (on manual units only)	No control linkage	No control linkage
Bar for Waltco nameplate	Bar for Waltco nameplate	No bar
Hook with lever actuator 	Hook without lever actuator 	Hook with nub 

E-25 BED EXTENSION



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E-25 SERIES

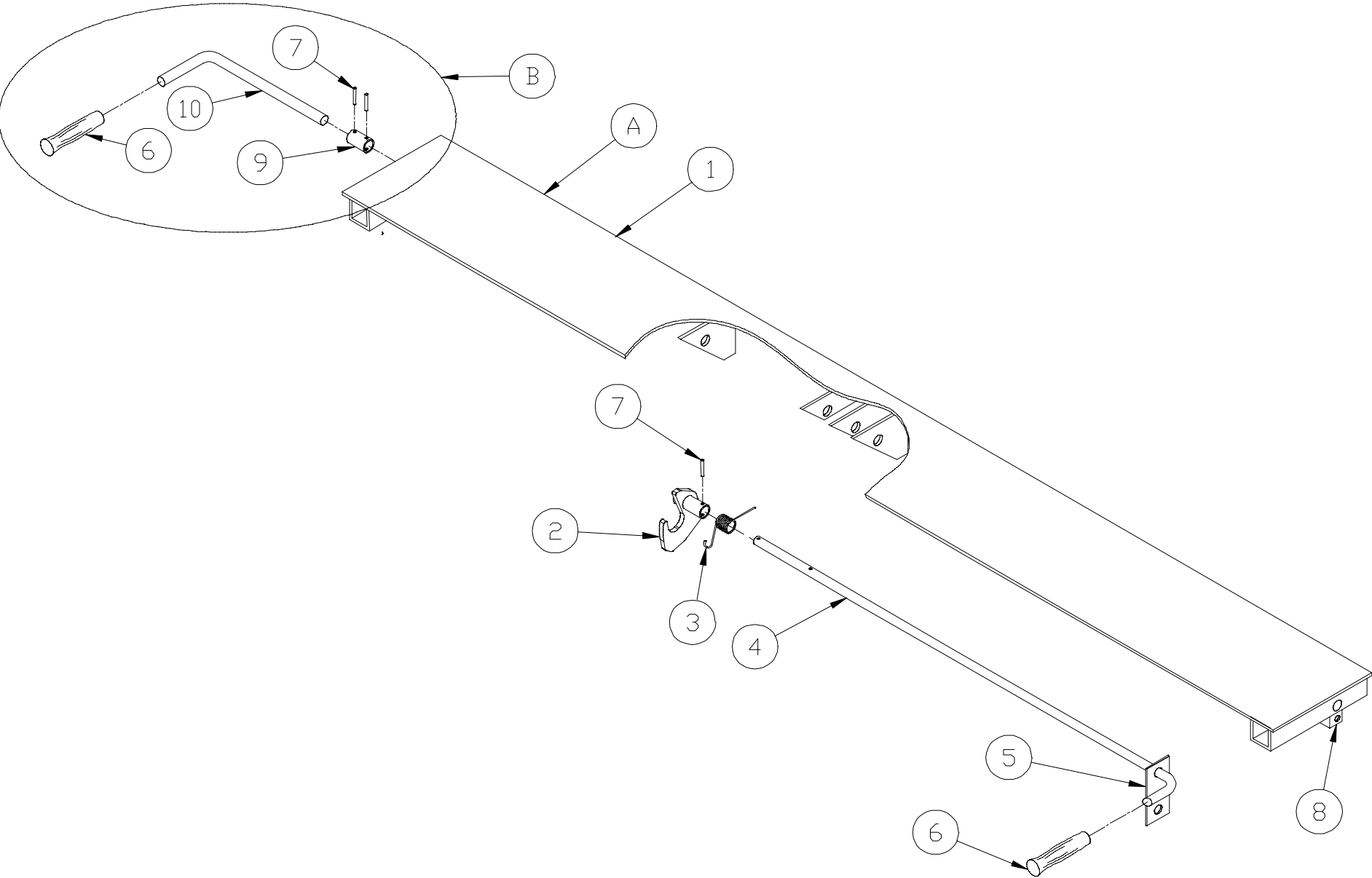
REVISED: 10-94

PM-189

ITEM	PART NUMBER	QTY	DESCRIPTION
A	26260000	1	Bed Extension (Including Items 1 to 8)
B	80000420	1	Flipaway Dual Control Kit (Includes Items 3, 9, 10, & 19)
1	26261000	1	Bed Extension Sub Assembly
2	26263000	1	Lever Assembly
3	75089547	1	Coiled Pin (3 Used On Dual Control Units)
4	26262000	1	Hook Assembly
5	26261600	1	Torsion Spring
6	20265100	1	Control Handle
7	26261500	1	Guard
8	22197103	1	Lockout Bar
9	26263202	1	Connector Sleeve (Dual Control Only)
10	26265102	1	Dual Control Handle (Dual Control Only)
11	26297100	2	Dock Bumper
12	26298001	1	Dock Bumper Brace (Curb Side)
13	26298051	1	Dock Bumper Brace (Street Side)
14	26291100	2	Control Rod
15	75088052	2	5/16" Flat Washer
16	75084053	2	3/32" Dia. x 1" Cotter Pin
17	20291200	1	Control Rod Tube
18	26297000	1	Lockout Device Assembly
19	75089330	1	Rubber Grip (2 Used On Dual Control)
20	26261800	1	Return Spring

F, C, E, SERIES BED EXTENSION, ELECTRIC CONTROLS

\* For some Bed Extensions sold between February 1994 and March 1995



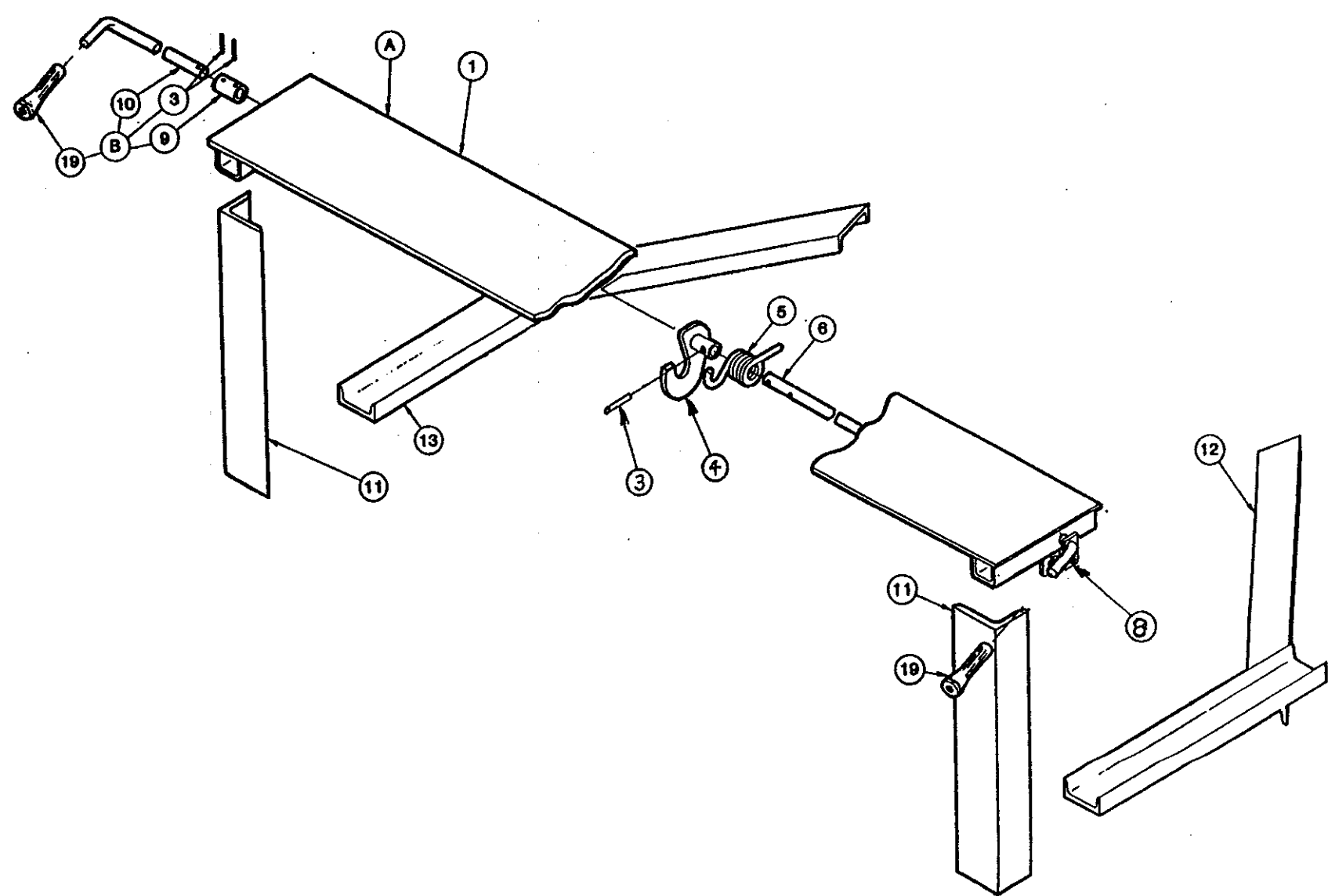
WALTCO  
TRUCK EQUIPMENT CO.  
F, C, E, SERIES

REVISED: 10-11-96  
E.O. 2968  
REV. 02

PM-381

ITEM	PART NUMBER	QTY	DESCRIPTION
A	20260005	1	Bed Extension Assembly Complete (96" Wide) (F-Series Only)
	20260006	1	Bed Extension Assembly Complete (102" Wide) (F-Series Only)
	22160005	1	Bed Extension Assembly Complete (C-Series Only)
	26260001	1	Bed Extension Assembly Complete (E-Series Only)
B	80000420	1	Flipaway Dual Control Kit (Includes Items 3, 7, 9, 10)
1	26261004	1	Bed Extension Sub Assembly (96" Wide) (F-Series Only)
	26261005	1	Bed Extension Sub Assembly (102" Wide) (F-Series Only)
	22161005	1	Bed Extension Sub Assembly (C-Series Only)
	26261001	1	Bed Extension Sub Assembly (E Series Only)
2	20262005	1	Hook Assembly (F-Series Only)
	22162005	1	Hook Assembly (C-Series Only)
	26262001	1	Hook Assembly (E-Series Only)
3	20261600	1	Torsion Spring
4	20265105	1	Control Handle (96" Wide)
	20265106	1	Control Handle (102" Wide)
5	22197104	1	Lock Out Clip
6	75089330	1	Rubber Grip (2 Used on Dual Control)
7	75089547	1	3/16" Dia. Coiled Pin (3 Used on Dual control)
8	33021800	1	Lock Out Clip
9	26263202	1	Dual Control Sleeve
10	26265102	1	Dual Control Handle

C & E SERIES BED EXTENSION



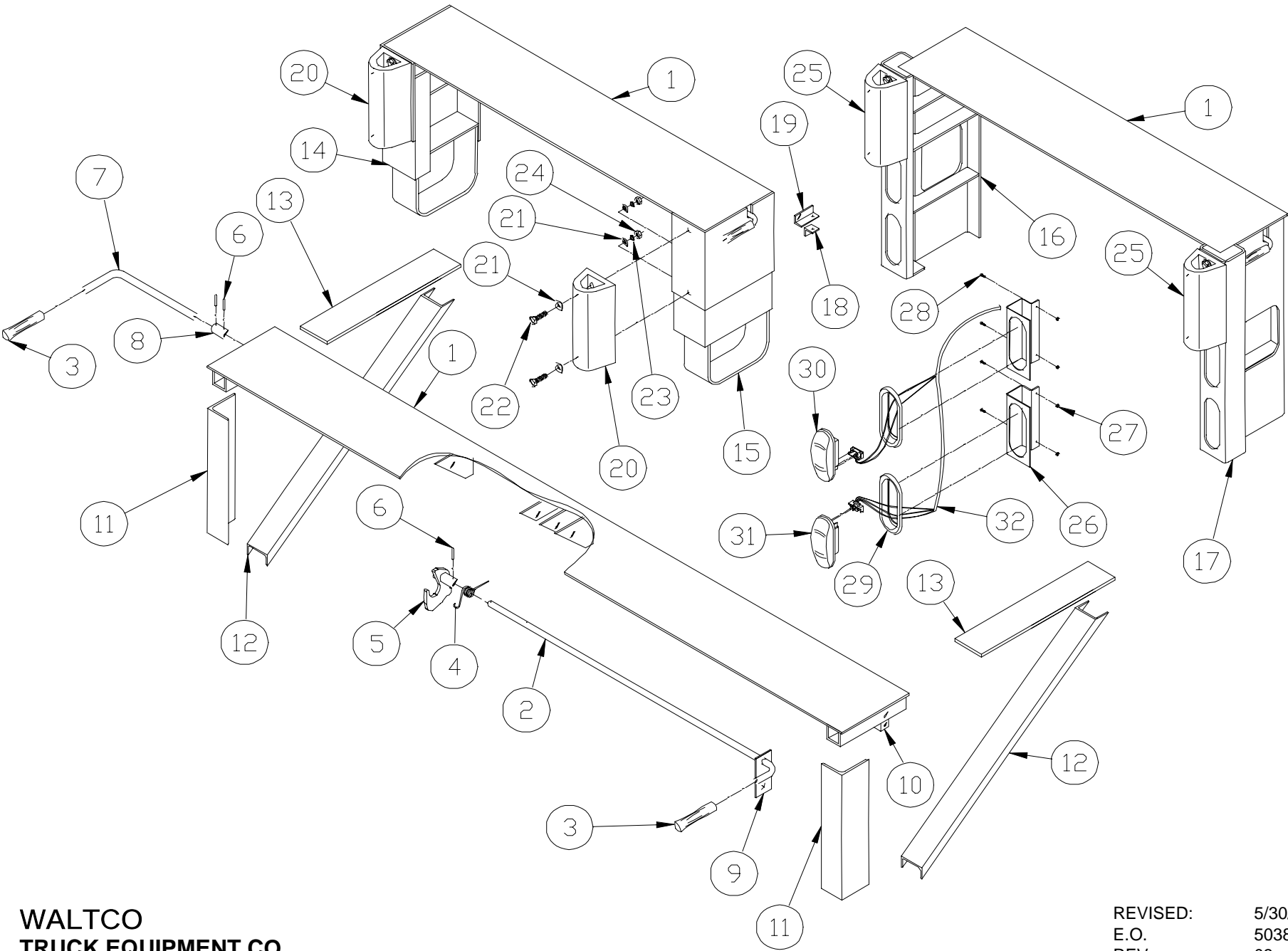
WALTCO  
TRUCK EQUIPMENT CO.  
C & E SERIES

REVISED: 4-95

PM-189A

ITEM	PART NUMBER	QTY	DESCRIPTION
A	26260002	1	Bed Extension - 96" (Including Items 1 to 8)
	26260003	1	Bed Extension - 102" (Including Items 1 to 8)
B	80000420	1	Flipaway Dual Control Kit (Includes Items 3, 9, 10, & 19)
1	26261002	1	Bed Extension Sub Assembly
	26261003	1	Bed Extension Sub Assembly
3	75089547	1	Coiled Pin (3 Used On Dual Control Units)
4	26262002	1	Hook Assembly
5	20261600	1	Torsion Spring
6	20265105	1	Control Handle (96")
	20265106	1	Control Handle (102")
8	22197104	1	Lockout Bar
9	26263202	1	Connector Sleeve (Dual Control Only)
10	26265102	1	Dual Control Handle (Dual Control Only)
11	26297100	2	Dock Bumper
12	26298001	1	Dock Bumper Brace (Curb Side)
13	26298051	1	Dock Bumper Brace (Street Side)
19	75089330	1	Rubber Grip (2 Used On Dual Control)

F, C, E SERIES BED EXTENSION



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F, C, E SERIES

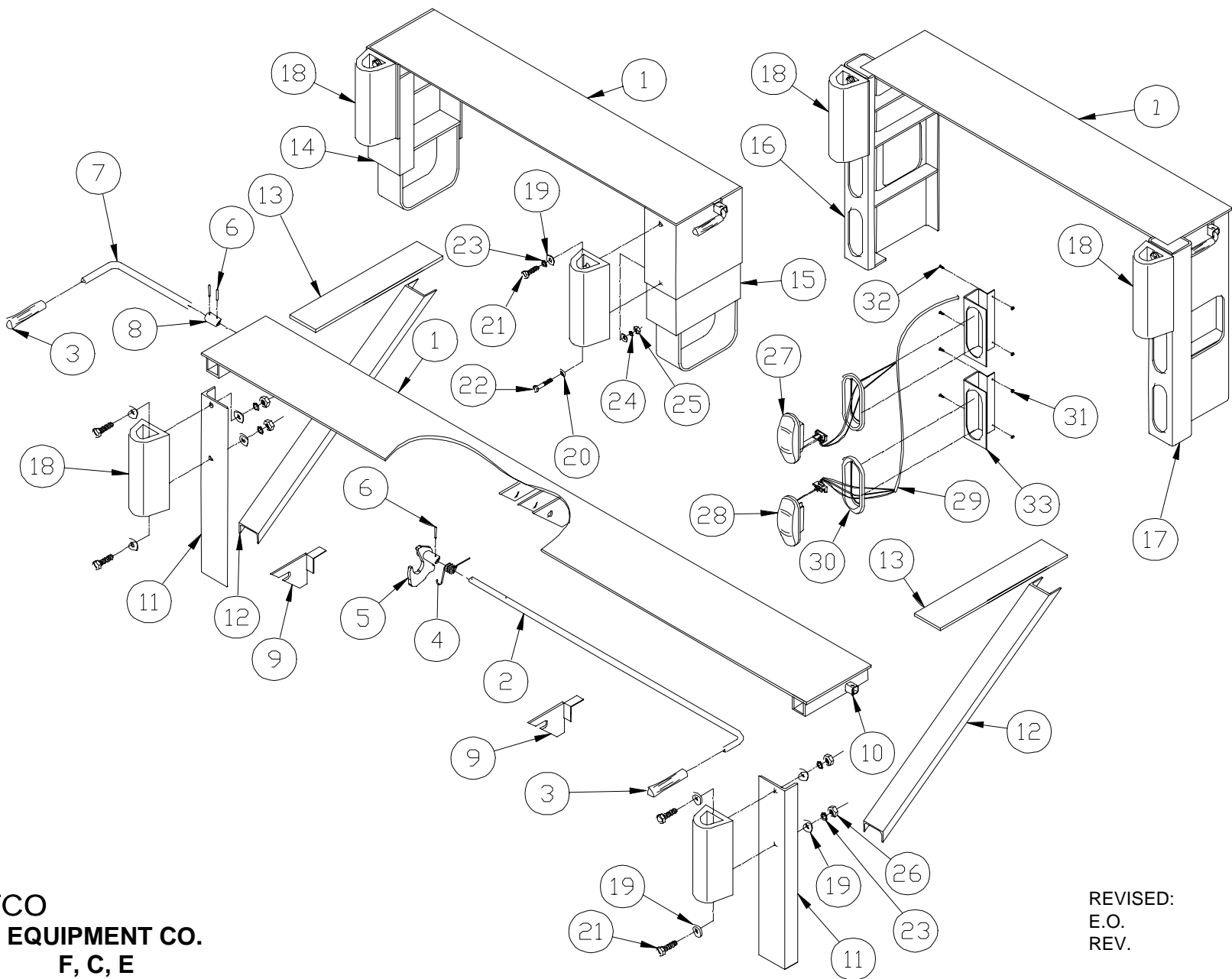
REVISED: 5/30/03  
E.O. 5038  
REV. 03

PM-417

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26260002	1	Bed Extension - 96"
	26260003	1	Bed Extension - 102"
2	20265105	1	Control Handle (96" Bed Extension)
	20265106	1	Control Handle (102" Bed Extension)
3	75089330 ❖	1	Rubber Grip (2 Used On Dual Control)
4	20261600	1	Torsion Spring
5	26262002	1	Hook Assembly
6	75089547 ❖	1	Coiled Pin (3 Used On Dual Control Units)
7	26265102 ❖	1	Dual Control Handle (Dual Control Only)
8	26263202 ❖	1	Connector Sleeve (Dual Control Only)
9	22197104	1	Lockout Bar
10	33021800	1	Lockout Clip
11	26297102 ⌘	2	Dock Bumper Angle
12	26298003 ⌘	2	Support Channel
13	26298004 ⌘	2	Support Bar
14	26298052 ■	1	Dock Bumper (Driver's Side)
15	26298002 ■	1	Dock Bumper (Curb Side)
16	22597051 ○	1	Dock Bumper for lights (Driver's Side)
17	22597001 ○	1	Dock Bumper for lights (Curb Side)
18	26298600 ■○	1	Lockout Angle
19	26298500 ■○	1	Lockout Angle
20	26297602 ◆	2	Rubber Bumper
21	75088057 ●◆	8	Washer 5/8"
22	75086159 ●◆	4	Hex Bolt 5/8"-11 x 3" lg. Grade 2
23	75088085 ●◆	4	Lock Washer 5/8"
24	75085012 ●◆	4	Hex Nut 5/8"-11
25	26297600 ●	2	Rubber Bumper
26	22597102 ○	4	Tail Light Bracket
27	75085000 ○	8	Hex Nut #10-32
28	75086732 ○	8	Machine Screw #10-32 x 1" lg.
29	75089376 ○	4	Light Grommet
30	75089374 ○	2	Tail Light Backup (Tractors only) (Clear)
	75089373 ○	2	Tail Light S, T & T (Trailers only) (Red)
31	75089373 ○	2	Tail Light S, T & T (Red)
32	22575200 ○	2	Harness, 2 Lamp

- ❖ Included in dual control kit 80000420
- Rubber Bumper Kit 26297003 (For Heavy Duty Dock Bumper Kits)
- Rubber Bumper Kit 22596011 (For Super Duty Dock Bumper Kits with Lights)
- ◆ Rubber Bumper Kit 26297002 (For Super Duty without Lights)
- Super Duty Dock Bumper Kit 26296002 (without Lights)
- Super Duty Dock Bumper Kit With (4) Lights 22596001 (Tractor)
- Super Duty Dock Bumper Kit With (4) Lights 22596001 (Trailer)
- ⌘ Heavy Duty Dock Bumper Kit 26296003

BED EXTENSION



WALTCO  
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F, C, E

REVISED: 5/30/03  
E.O. 5038  
REV. 04

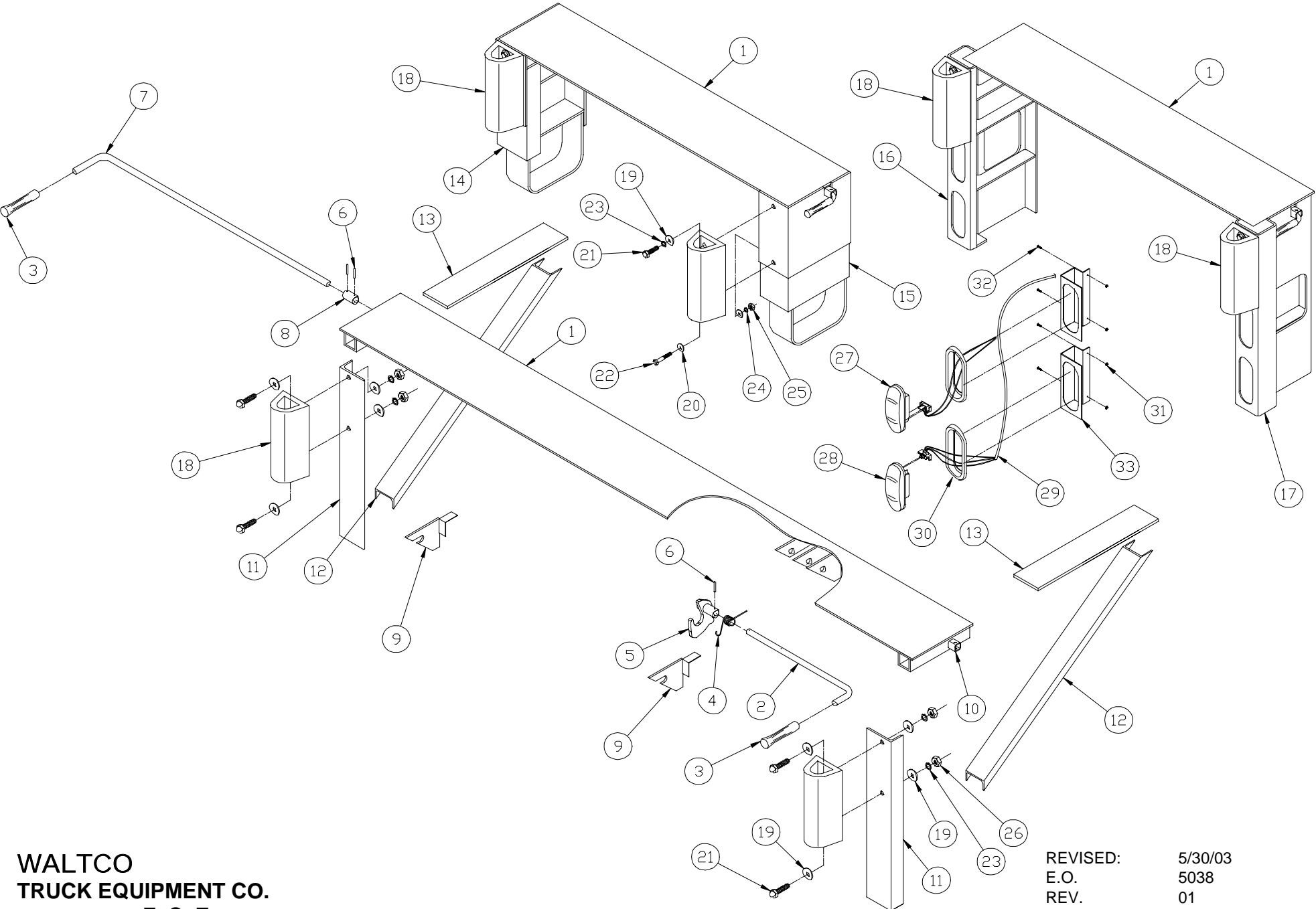
PM-508

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26360001	1	Bed Extension – 96” E-30 only
	26360002		Bed Extension – 102” E-30 only
	26260006		Bed Extension – 96”
	26260007		Bed Extension – 102”
2	26360101 <sup>L</sup>	1	Control Handle 96” Bed Extension E-30 only
	26360102		Control Handle 102” Bed Extension E-30 only
	26265100 <sup>I</sup>		Control Handle 96” Bed Extension
	26265101		Control Handle 102” Bed Extension
3	75089330 <sup>A I K L</sup>	1	Handle Grip (2 used with dual controls)
4	20261600 <sup>I L</sup>	1	Torsion Spring
5	26262002 <sup>I L</sup>	1	Hook Assembly
6	75089547 <sup>A I K L</sup>	1	Roll Pin (3 used with dual control)
7	26265102 <sup>A</sup>	1	Dual Control Handle (Dual Control only)
	26365102 <sup>K</sup>		Dual Control Handle (Dual Control only) E-30 only
8	26263202 <sup>A K</sup>	1	Connector Sleeve (Dual Control only)
9	26266001	2	Bed Extension Gauge/Gusset
10	26265200	1	Control Handle Collar
11	26297102 <sup>B</sup>	2	Dock Bumper Angle
12	26298003 <sup>B</sup>	2	Support Channel
13	26298004 <sup>B</sup>	2	Support Bar
14	26298050 <sup>C</sup>	1	Super Duty Dock Bumper (Driver’s Side)
15	26298010 <sup>C</sup>	1	Super Duty Dock Bumper (Curb Side)
16	22597051 <sup>D E</sup>	1	Super Duty Dock Bumper w/lights (D.S.)
17	22597001 <sup>D E</sup>	1	Super Duty Dock Bumper w/lights (C.S.)
18	26297600 <sup>F G H</sup>	2	Rubber Bumper
19	75088057 <sup>F G H</sup>	8*	Washer, 5/8”
20	75088067 <sup>G</sup>	4	Washer, 1/2”
21	75086155 <sup>F G H</sup>	4 <sup>Δ</sup>	Hex Bolt, 5/8”-11 x 2” lg.
22	75086110 <sup>G</sup>	2	Hex Bolt, 1/2”-13 x 2-1/2” lg.
23	75088085 <sup>F G H</sup>	4 <sup>Δ</sup>	Lock Washer, 5/8”
24	75088083 <sup>G</sup>	2	Lock Washer, 1/2”
25	75085008 <sup>G</sup>	2	Hex Nut, 1/2”-13
26	75085012 <sup>F</sup>	4	Hex Nut, 5/8”-11
27	75089374 <sup>D</sup>	2	Taillight Backup (Tractors only) (Clear)
	75089373 <sup>D E</sup>		Taillight S, T & T (Trailers only) (Red)
28	75089373 <sup>D E</sup>	2	Taillight S, T & T (Red)
29	22575200 <sup>D E</sup>	2	Harness, 2 Lamp
30	75089376 <sup>D E</sup>	4	Light Grommet
31	75085000 <sup>D E</sup>	8	Hex Nut, #10-32

ITEM	PART NUMBER	QTY	DESCRIPTION
32	75086732 <sup>D E</sup>	8	Machine Screw, #10-32 x 1” lg.
33	22597102 <sup>D E</sup>	4	Taillight Bracket

- <sup>A</sup> Included in Dual Control Kit (80000420)
- <sup>B</sup> Heavy Duty dock Bumper Kit 26296003
- <sup>C</sup> Super Duty dock Bumper Kit 262960004 (without lights)
- <sup>D</sup> Super Duty dock Bumper Kit With (4) Lights 22596001 (Tractor)
- <sup>E</sup> Super Duty dock Bumper Kit With (4) Lights 22596003 (Trailer)
- <sup>F</sup> Rubber Bumper Kit 26297003 (For Heavy Duty Dock Bumper Kit)
- <sup>G</sup> Rubber Bumper Kit 26297004 (For Super Duty Dock Bumper Kit w/o Lights)
- <sup>H</sup> Rubber Bumper Kit 22596011 (For Super Duty Dock Bumper Kit With Lights)
- <sup>I</sup> Included in bed Extension Replacement Kit 80000951 (F,C,E)
- <sup>K</sup> Included in Dual Control Kit (80000431)
- <sup>L</sup> Included in E-30 Bed Extension Replacement Kit (80000969).
- \* Quantity of 4 for 22596011, Quantity of 2 for 26297004
- <sup>Δ</sup> Quantity of 2 for 26297004

BED EXTENSION



WALTCO  
TRUCK EQUIPMENT CO.  
F, C, E

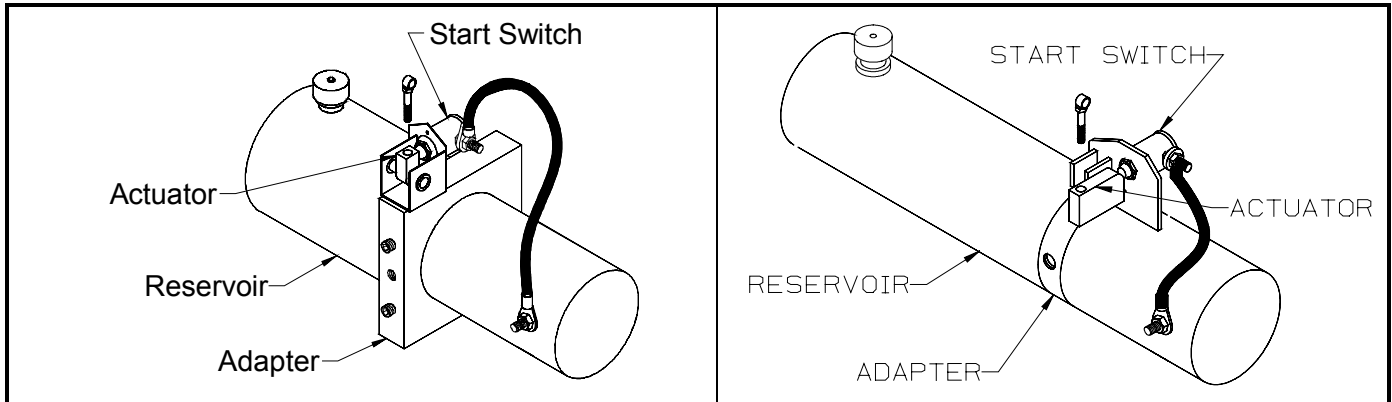
REVISED: 5/30/03  
E.O. 5038  
REV. 01  
**PM-508A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26360001	1	Bed Extension – 96"
	26360002		Bed Extension – 102"
2	26360101 <sup>L</sup>	1	Control Handle 96" Bed Extension
	26360102		Control Handle 102" Bed Extension
3	75089330 <sup>L K</sup>	1	Handle Grip (2 used with dual controls)
4	20261600 <sup>L</sup>	1	Torsion Spring
5	26262002 <sup>L</sup>	1	Hook Assembly
6	75089547 <sup>L K</sup>	1	Roll Pin (3 used with dual control)
7	26365102 <sup>K</sup>		Dual Control Handle (Dual Control only)
8	26263202 <sup>K</sup>	1	Connector Sleeve (Dual Control only)
9	26266001	2	Bed Extension Gauge/Gusset
10	26265200	1	Control Handle Collar
11	26297102 <sup>B</sup>	2	Dock Bumper Angle
12	26298003 <sup>B</sup>	2	Support Channel
13	26298004 <sup>B</sup>	2	Support Bar
14	26298050 <sup>C</sup>	1	Super Duty Dock Bumper (Driver's Side)
15	26298010 <sup>C</sup>	1	Super Duty Dock Bumper (Curb Side)
16	22597051 <sup>D E</sup>	1	Super Duty Dock Bumper w/lights (D.S.)
17	22597001 <sup>D E</sup>	1	Super Duty Dock Bumper w/lights (C.S.)
18	26297600 <sup>F G H</sup>	2	Rubber Bumper
19	75088057 <sup>F G H</sup>	8*	Washer, 5/8"
20	75088067 <sup>G</sup>	4	Washer, 1/2"
21	75086155 <sup>F G H</sup>	4 <sup>Δ</sup>	Hex Bolt, 5/8"-11 x 2" lg.
22	75086110 <sup>G</sup>	2	Hex Bolt, 1/2"-13 x 2-1/2" lg.
23	75088085 <sup>F G H</sup>	4 <sup>Δ</sup>	Lock Washer, 5/8"
24	75088083 <sup>G</sup>	2	Lock Washer, 1/2"
25	75085008 <sup>G</sup>	2	Hex Nut, 1/2"-13
26	75085012 <sup>F</sup>	4	Hex Nut, 5/8"-11
27	75089374 <sup>D</sup>	2	Taillight Backup (Tractors only) (Clear)
28	75089373 <sup>DE</sup>	2	Taillight S, T & T (Trailers only) (Red)
	75089373 <sup>DE</sup>		Taillight S, T & T (Red)
29	22575200 <sup>DE</sup>	2	Harness, 2 Lamp
30	75089376 <sup>DE</sup>	4	Light Grommet
31	75085000 <sup>DE</sup>	8	Hex Nut, #10-32
32	75086732 <sup>DE</sup>	8	Machine Screw, #10-32 x 1" lg.
33	22597102 <sup>DE</sup>	4	Taillight Bracket

<sup>B</sup> Heavy Duty dock Bumper Kit 26296003  
<sup>C</sup> Super Duty dock Bumper Kit 262960004 (without lights)  
<sup>D</sup> Super Duty dock Bumper Kit With (4) Lights 22596001 (Tractor)  
<sup>E</sup> Super Duty dock Bumper Kit With (4) Lights 22596003 (Trailer)  
<sup>F</sup> Rubber Bumper Kit 26297003 (For Heavy Duty Dock Bumper Kit)  
<sup>G</sup> Rubber Bumper Kit 26297004 (For Super Duty Dock Bumper Kit w/o Lights)  
<sup>H</sup> Rubber Bumper Kit 22596011 (For Super Duty Dock Bumper Kit With Lights)  
<sup>K</sup> Included in Dual Control Kit (80000431)  
<sup>L</sup> Included in Bed Extension Replacement Kit (80000969).  
\* Quantity of 4 for 22596011, Quantity of 2 for 26297004  
<sup>Δ</sup> Quantity of 2 for 26297004

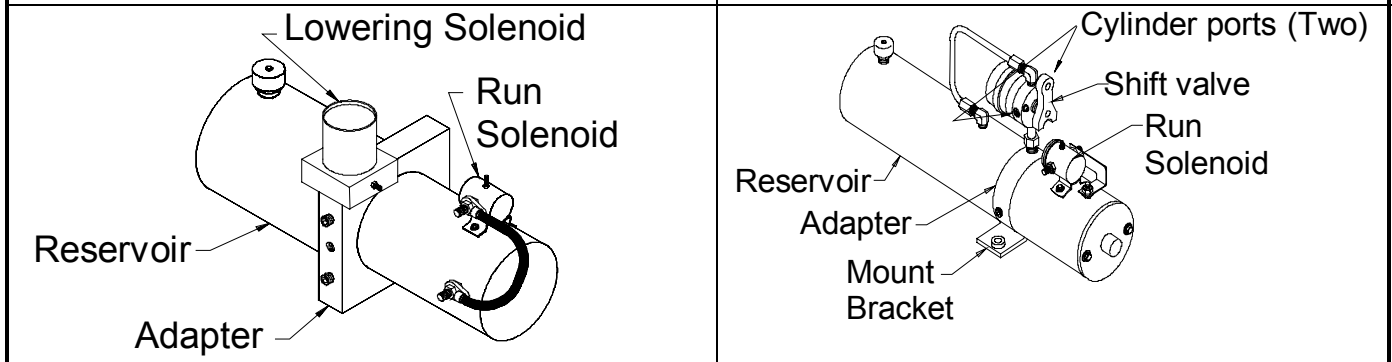
# E-SERIES HYDRAULICS

(Prior to 2-94)



**E-25 Manual Control - Fenner**

**E-25 Manual Control - Monarch**



**E-25 Electric Control**

**E-25 Manual Power Down**

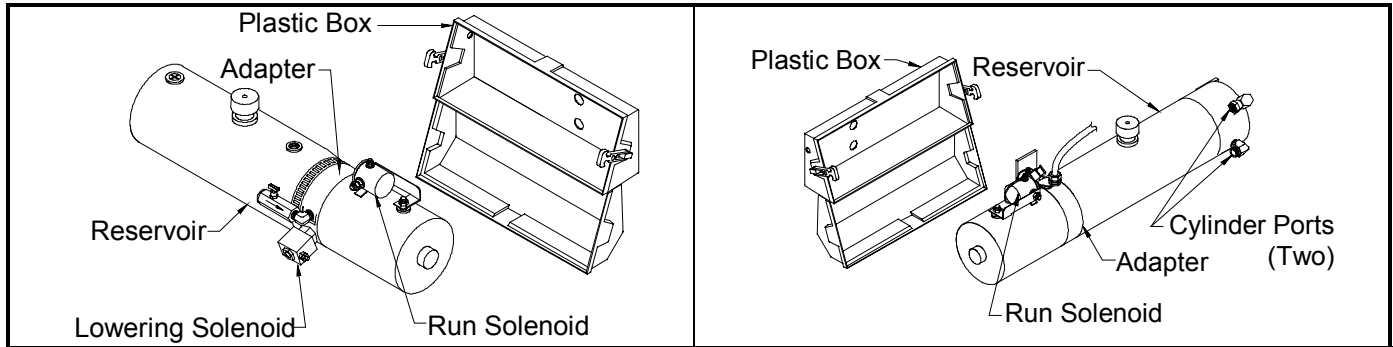
## Common Features

- Fenner and Monarch power units
- Manual or electric controls
- "F" Series cylinders
- Pressure set at 2400 psi
- Pump mounted to brackets in middle of mount tube

	E-25			
	Manual Control Fenner Pump	Manual Control Monarch Pump	Electric Control	Manual Power Down
<b>Reservoir</b>	Round	Round	Round	Round
<b>Control</b>	Start switch with actuator	Start switch with actuator	Release and control solenoid	Shift valve with control solenoid
<b>Adapter</b>	Square	Round	Square	Round
<b>Motor</b>	Spline drive	Spline drive	Spline drive	Tang drive
<b>Hydraulic Layout</b>	<b>PM-100</b>	<b>PM-100</b>	<b>80100383</b>	<b>PM-273</b>
<b>Pump</b>	<b>PM-110B</b>	<b>PM-286</b>	<b>PM-111B</b>	<b>PM-247A</b>
<b>Cylinder</b>	<b>PM-211</b>	<b>PM-211</b>	<b>PM-211</b>	<b>PM-585</b>

# E-SERIES ELECTROPAK®

(Manufactured from 2-94 thru 6-97)



**E-25 Electric Control**

**E-25 Electric Control Power Down**

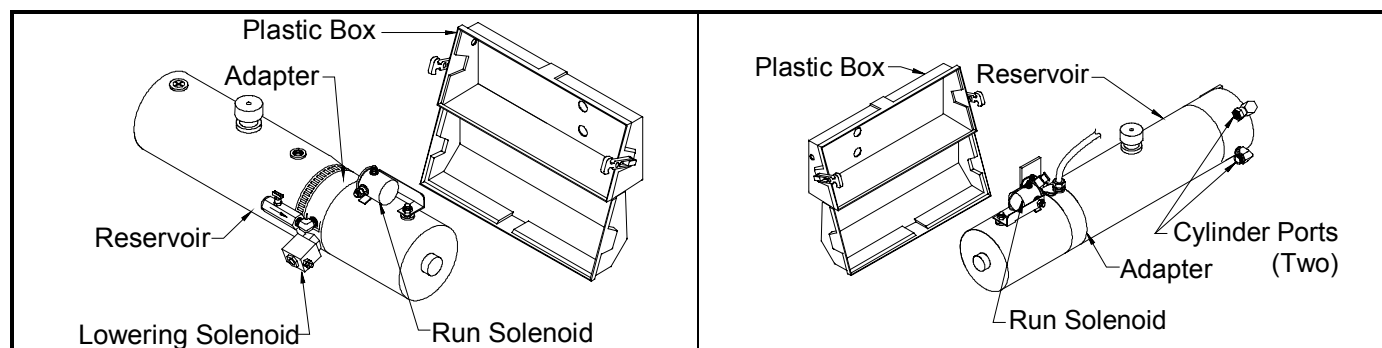
## Common Features

- Monarch power units with ElectroPak®
- Electric controls
- "F" Series cylinder
- Pump units shipped with plastic weather box
- Pump mounted remotely to vehicle chassis

	<b>E-25</b>	
	<b>Electric Control</b>	<b>Electric Control Power Down</b>
<b>Reservoir</b>	Round	Round
<b>Pump Box</b>	Plastic	Plastic
<b>Adapter</b>	Round	Round
<b>Hydraulic Layout</b>	<b>PM-337</b>	<b>PM-341</b>
<b>Electrical Layout &amp; Schematic</b>	<b>PM-343</b>	<b>PM-344</b>
<b>Pump</b>	<b>PM-352</b>	<b>PM-354</b>
<b>Cylinder</b>	<b>PM-211</b>	<b>PM-585</b>

# E-SERIES ELECTROPAK® and THERMALPAK®

(Manufactured from 6-97 thru 1-00)



**E-25 Electric Control**

**E-25 Electric Control Power Down**

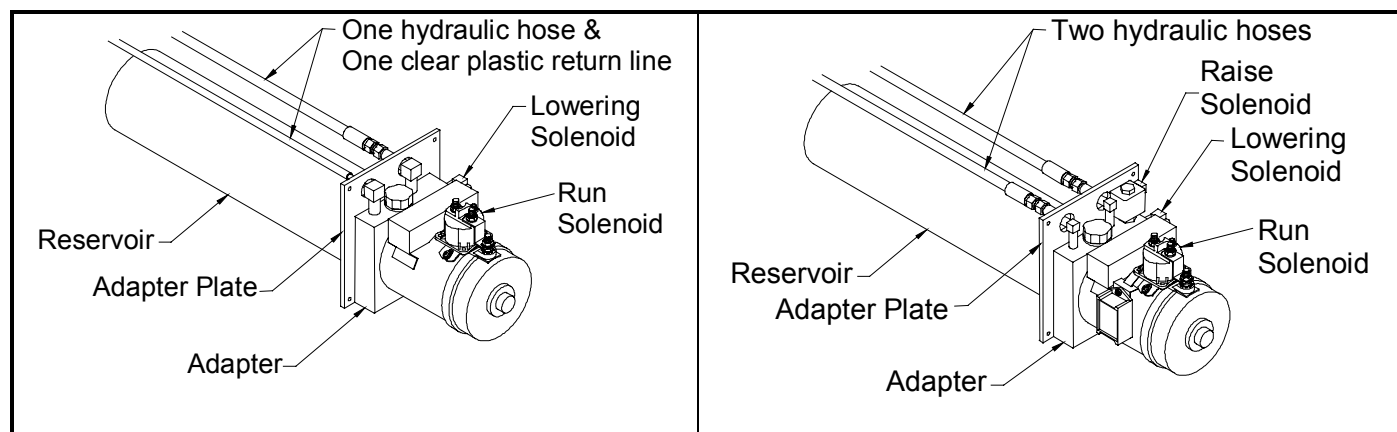
## Common Features

- Monarch power units with ElectroPak® or ThermalPak® decal
- Electric controls:  
Toggle Switch or Push Button control from 6-97 thru 10-98  
Super Switch Control from 10-98 thru 1-00
- "F" Series reduced maintenance cylinder
- Pressure set at 2700 psi
- Pump mounted remotely to vehicle chassis

	E-25			
	Electric Control		Electric Control Power Down	
	Electro-Pak®	Thermal-Pak®	Electro-Pak®	Thermal-Pak®
<b>Reservoir</b>	Round	Round	Round	Round
<b>Pump Box</b>	Plastic	Plastic	Plastic	Plastic
<b>Adapter</b>	Round	Round	Round	Round
<b>Hydraulic Layout</b>	<b>PM-379</b>	<b>PM-379</b>	<b>PM-380</b> (Built from 6-97 thru 10-98) <b>PM-494</b> (Built from 10-98 thru 1-00)	<b>PM-380</b> (Built from 6-97 thru 10-98) <b>PM-494</b> (Built from 10-98 thru 1-00)
<b>Electrical Layout &amp; Schematic</b>	<b>PM-343</b>	<b>PM-343</b>	<b>PM-344</b> (Built from 6-97 thru 10-98) <b>PM-489</b> (Built from 10-98 thru 1-00)	<b>PM-344</b> (Built from 6-97 thru 10-98) <b>PM-489</b> (Built from 10-98 thru 1-00)
<b>Pump</b>	<b>PM-352</b>	<b>PM-510</b>	<b>PM-354</b>	<b>PM-511</b>
<b>Cylinder</b>	<b>PM-263</b>	<b>PM-263</b>	<b>PM-264</b>	<b>PM-264</b>

# E-SERIES ELECTROPAK® and THERMALPAK®

(Manufactured from 1-00)



**E-25, 30 Electric Control**

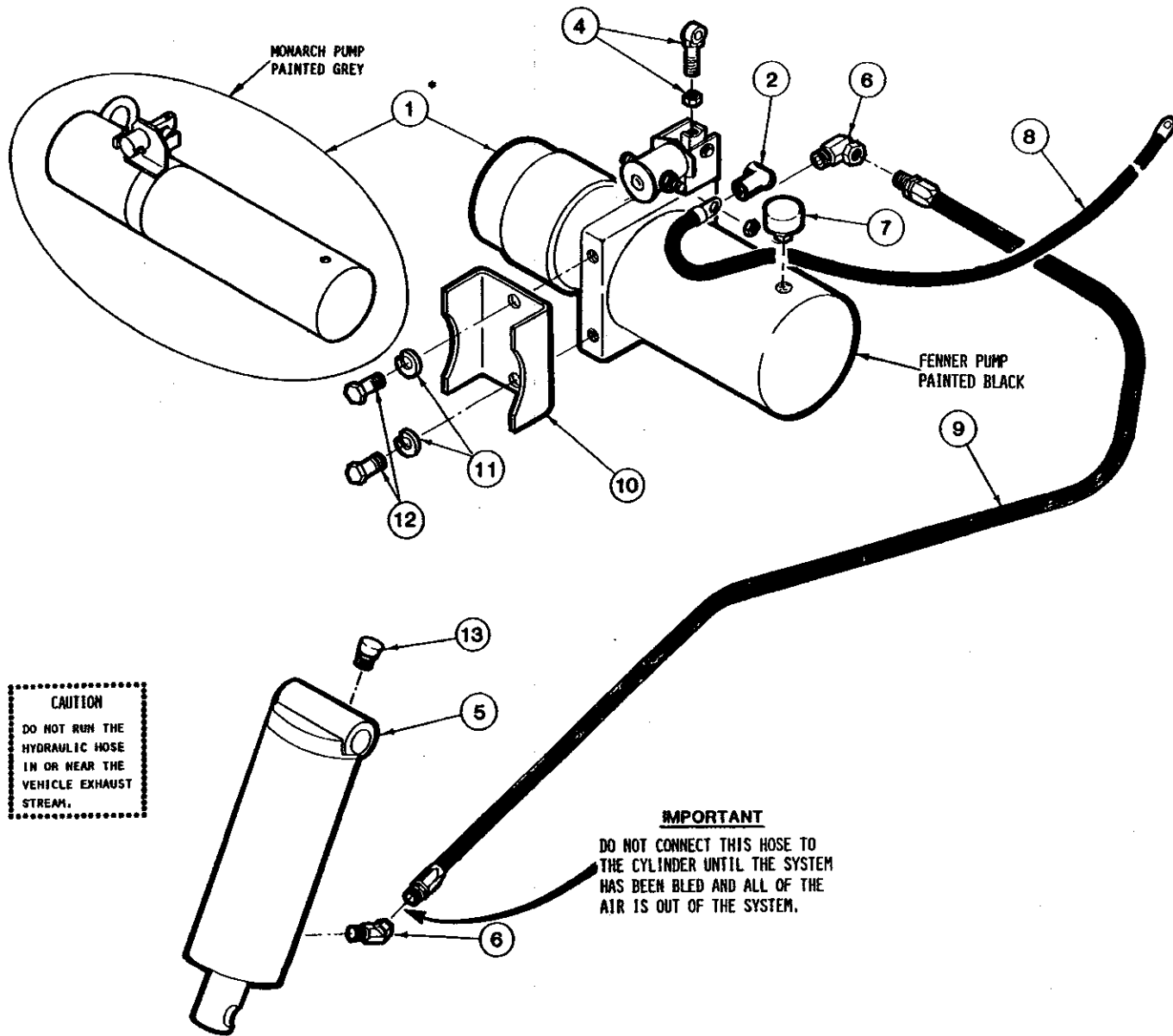
**E-25, 30 Electric Control Power Down**

## Common Features

- Monarch power units with ElectroPak® or ThermalPak® decal
- Electric controls
- "F" Series reduced maintenance cylinder
- Pressure set at 2700 psi
- Pump units shipped with weather box
- Pump mounted to curb side of liftgate mount tube (Pump Reservoir is inserted into Mount Tube thru 3-03)
- E-30 (3000 lb capacity) available after 11/01

	E-25, 30			
	Electric Control		Electric Control Power Down	
	Electro-Pak®	Thermal-Pak®	Electro-Pak®	Thermal-Pak®
<b>Reservoir</b>	Round	Round	Round	Round
<b>Pump Box</b>	Plastic	Plastic	Plastic	Plastic
<b>Adapter</b>	Round	Round	Round	Round
<b>Hydraulic Layout</b>	<b>PM-519</b> (Built from 1-00 thru 3-03)  <b>PM-519A</b> (Built from 3-03 thru 3-04)  <b>PM-619</b> (Built from 3-04)	<b>PM-519</b> (Built from 1-00 thru 3-03)  <b>PM-519A</b> (Built from 3-03 thru 3-04)  <b>PM-619</b> (Built from 3-04)	<b>PM-520</b> (Built from 1-00 thru 3-03)  <b>PM-520A</b> (Built from 3-03 thru 3-04)  <b>PM-620</b> (Built from 3-04)	<b>PM-520</b> (Built from 1-00 thru 3-03)  <b>PM-520A</b> (Built from 3-03 thru 3-04)  <b>PM-620</b> (Built from 3-04)
<b>Electrical Layout &amp; Schematic</b>	<b>PM-617</b>	<b>PM-617</b>	<b>PM-618</b>	<b>PM-618</b>
<b>Pump</b>	<b>PM-555</b>	<b>PM-558</b>	<b>PM-556</b>	<b>PM-559</b>
<b>Cylinder</b>	<b>PM-263</b>	<b>PM-263</b>	<b>PM-264</b>	<b>PM-264</b>

E-25 ELECTRO HYDRAULIC LAYOUT



WALTCO  
TRUCK EQUIPMENT CO.  
E-25 SERIES

REVISED: 10-94

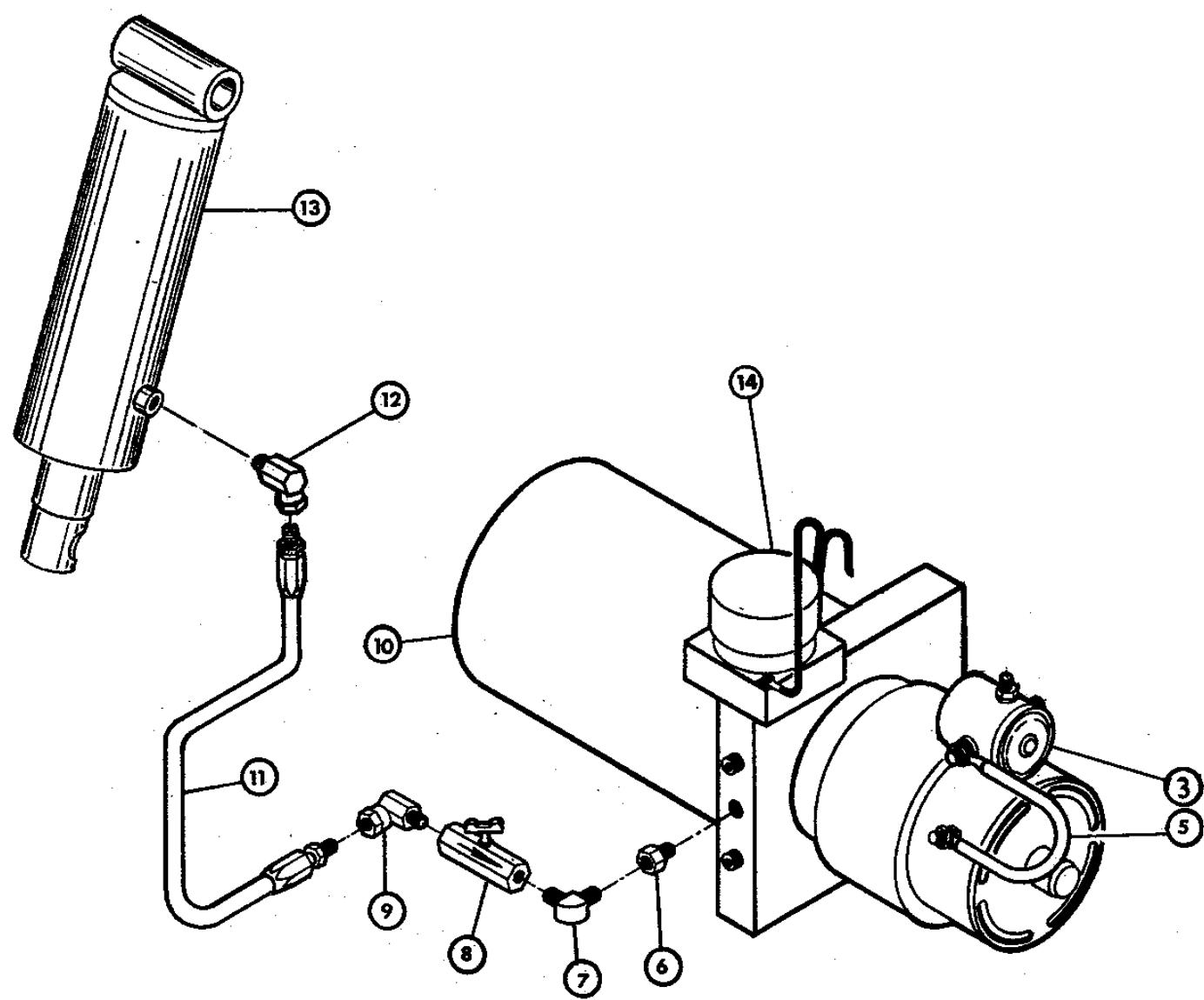
PM-100

ITEM	PART NUMBER	QTY	DESCRIPTION
1	22195000 *♦	1	Hydraulic Pump Unit (Fenner Stone)
	26295050 *♦	1	Hydraulic Pump Unit (Monarch)
2	75089327	1	Rubber Boot
4	20294002	1	Valve Lever Assembly
5	20280050	1	Hydraulic Cylinder
6	75083036	2	3/8" NPT x 90° Swivel Elbow
7	70091270	1	Pump Breather Cap
8	10195625	1	4 GA. x 25 FT. Battery Cable
9	75083067	1	3/8" I.D. x 30" Hose Assembly
10	20220900	1	Pump Mounting Bracket
11	75088081	2	3/8" Lock Washer
12	75086055	2	3/8"-16 x 3/4" Hex Head Screw
13	75089310	1	Cylinder Breather Cap

NOTES:

- \* Refer to Model & Serial Number on Pump Reservoir when ordering replacement parts or a new Pump.
- ♦ When ordering a complete replacement pump. Please use Part Number 70400300

HYDRAULIC LAYOUT FOR ELECTRIC CONTROL



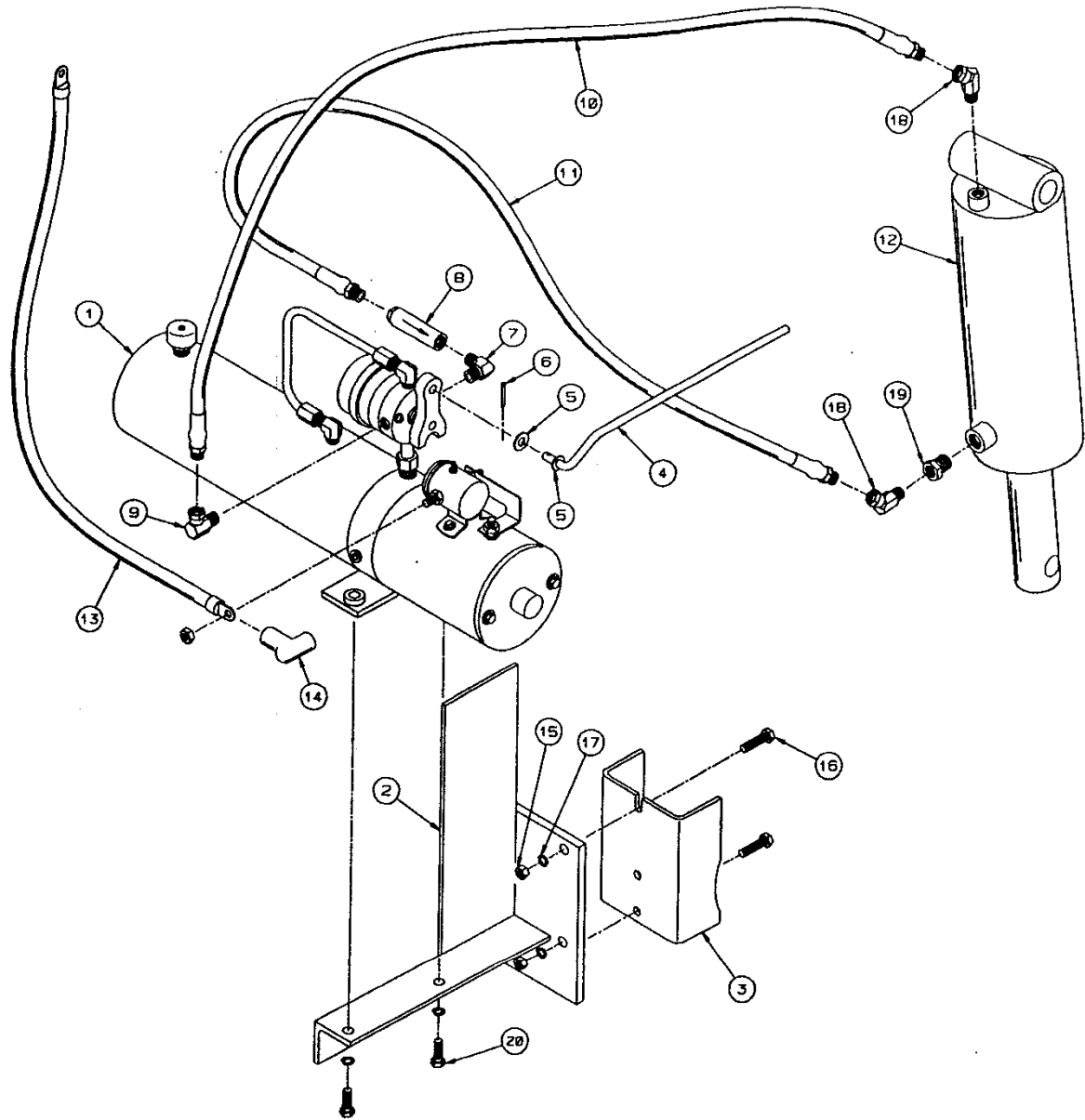
WALTCO  
TRUCK EQUIPMENT CO.  
E-25 Series

REVISED: 5-93

80100383

ITEM	PART NUMBER	QTY	DESCRIPTION
3	75089822	1	Solenoid
5	10195500	1	Cable Assembly
6	75082908	1	Adapter
7	75082611	1	90° Elbow
8	75089860	1	Pneutrol Valve
9	75083037	1	90° Elbow
10	30195000	1	Hydraulic Pump Unit
11	75083067	1	Hose Assembly
12	75083036	1	90° Swivel Elbow
13	20280050	1	Hydraulic Cylinder
14	70091631	1	Release Colenoid

E-25 POWER DOWN ELECTRO-HYDRAULIC LAYOUT



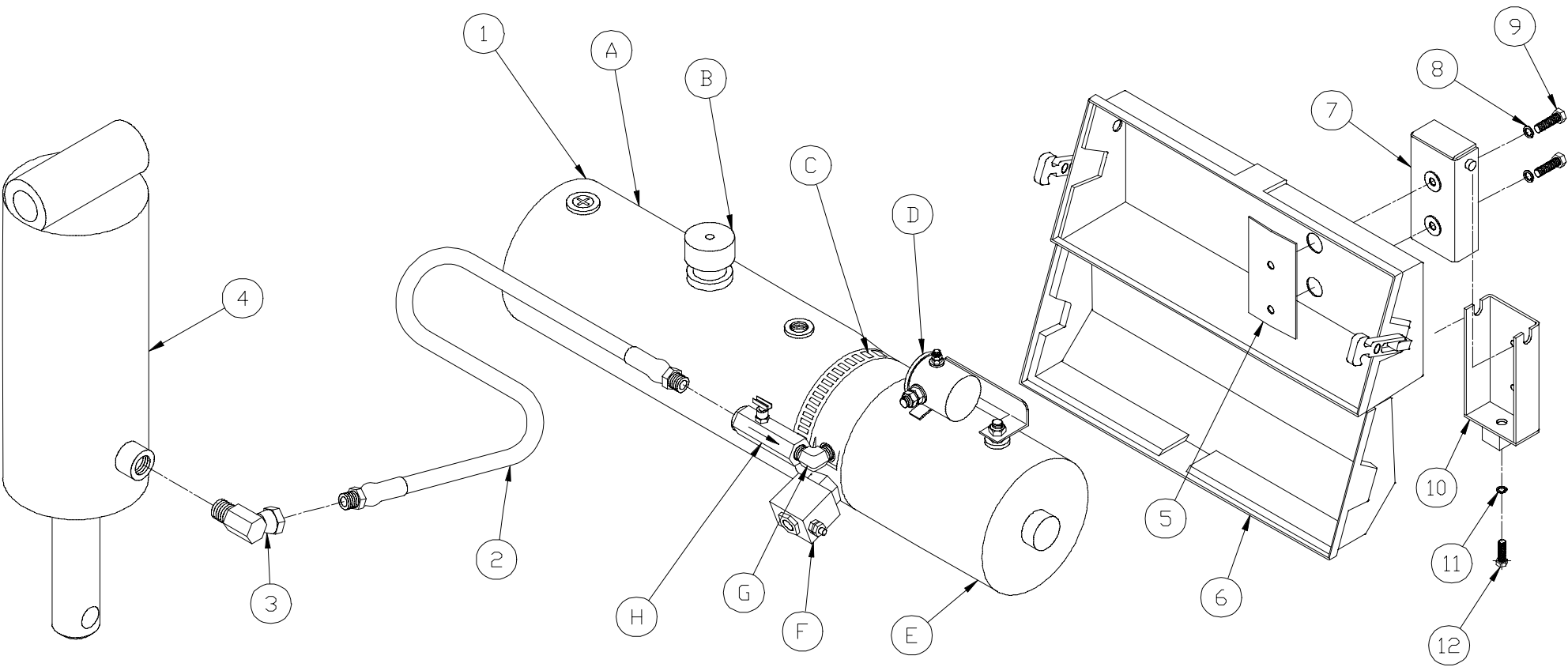
WALTCO  
TRUCK EQUIPMENT CO.  
E-25 SERIES

REVISED: 10-94

PM-273

ITEM	PART NUMBER	QTY	DESCRIPTION
1	20295000	1	Pump Unit Power Down
2	26221001	1	Pump Bracket Adapter
3	20220900	1	Pump Bracket
4	26291100	1	Control Rod
5	75088052	2	5/16" Flat Washer
6	75084053	1	3/32" Dia. x 1" Cotter Pin
7	75082611	1	1/4" NPT x 90° Elbow
8	70110040	1	Flow Control Valve
9	75083031	1	1/4" NPT x 90° Swivel Elbow
10	75083066	1	1/4" I.D. x 19" Hose Assembly
11	75083056	1	1/4" I.D. x 34" Hose Assembly
12	20280090	1	Hydraulic Cylinder
13	10195625	1	4 Ga. x 25 FT. Battery Cable
14	75089327	1	Rubber Boot
15	75085005	2	3/8"-16 Hex Nut
16	75086058	2	3/8"-16 x 1-1/2" Hex Bolt (Grade 5)
17	75088081	4	3/8" Lock Washer
18	75083016	2	1/4" NPT x 45° Swivel Elbow
19	75082908	1	3/8" NPT x 1/4" NPT Bushing
20	75086055	2	3/8"-16 x 3/4" Hex Bolt (Grade 5)

F-20, 30, FSL-20, 25, 30, D, E-SERIES ELECTRIC CONTROLS ELECTROPAK



WALTCO  
TRUCK EQUIPMENT CO.  
F-20, F-30, FSL-20, 25, 30, D, E  
Series

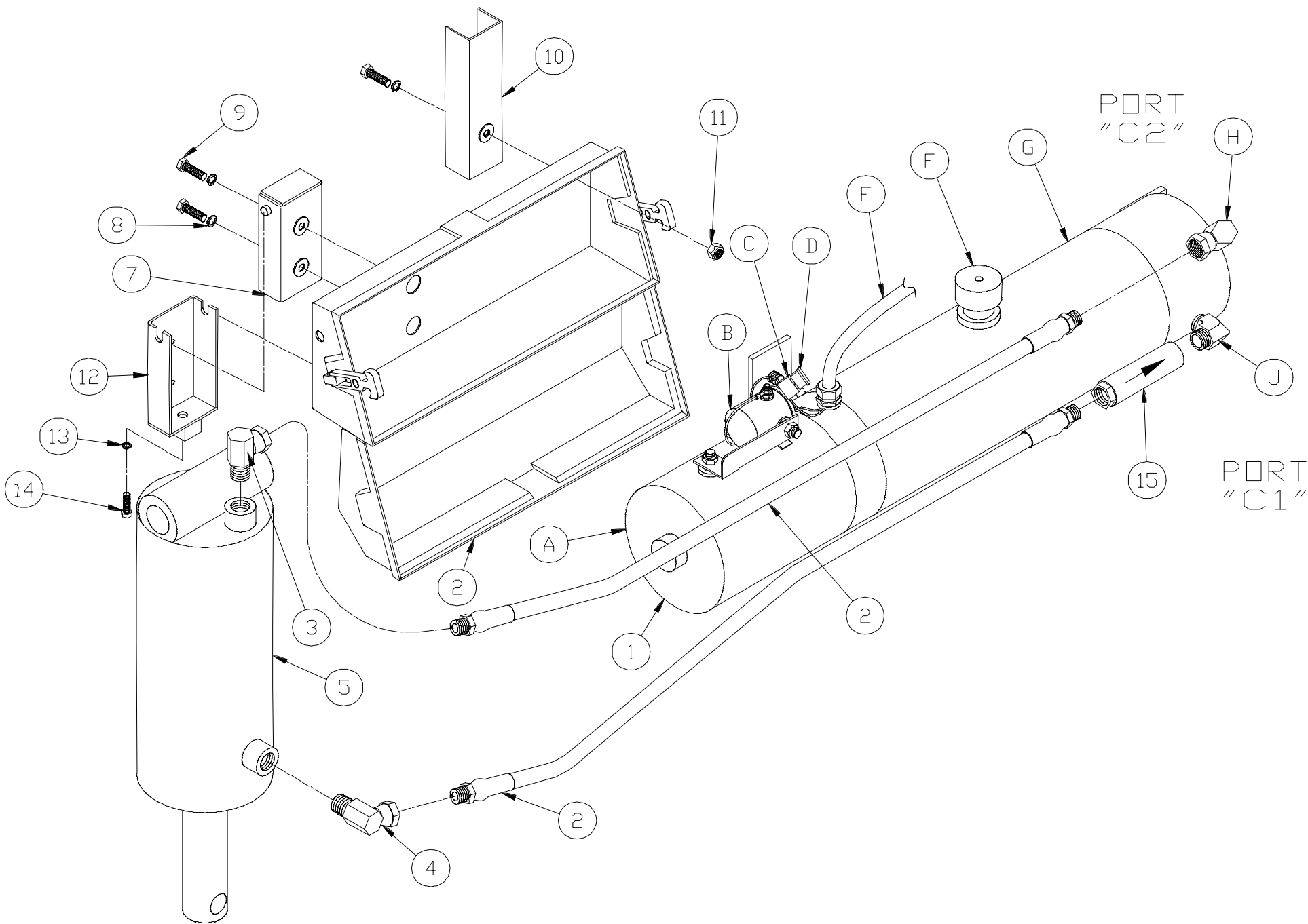
REVISED: 3-98  
E.O. 3462C  
REV. 02

PM-337

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400000	1	Hydraulic Pump Unit
A	70400001*	1	Hydraulic Reservoir
B	70091734*	1	Breather
C	70400002*	1	Reservoir Clamp
D	70092531*	1	Solenoid
E	70092312*	1	Motor
F	70400003*	1	Release Valve
G	75082611*	1	90° Male Elbow
H	70189860*	1	Flow Control Valve
2	75083073	1	Hose Assembly
3	75083018	1	45° Swivel Elbow
4	20280050	1	Hydraulic Cylinder
5	10021400	1	Pump Bracket Plate
6	10090500	1	Pump Cover Assembly
7	10021000	1	Pump Mounting Bracket
8	75088081	2	3/8" Lock Washer
9	75086056	2	Hex Bolt, 3/8"-16 x 1" lg., Grade 5
10	10021500	1	Pump Mounting Bracket
11	75088083	1	1/2" Lock Washer
12	75086108	1	Hex Bolt, 1/2"-13 x 1-1/2" lg., Grade 2

\* These parts included in 70400000 Assembly  
Parts 1,5-9 included in 10090800 Hydraulic Assembly

F-20, 30 & E SERIES ELECTRIC CONTROLS, POWER DOWN ELECTROPAK



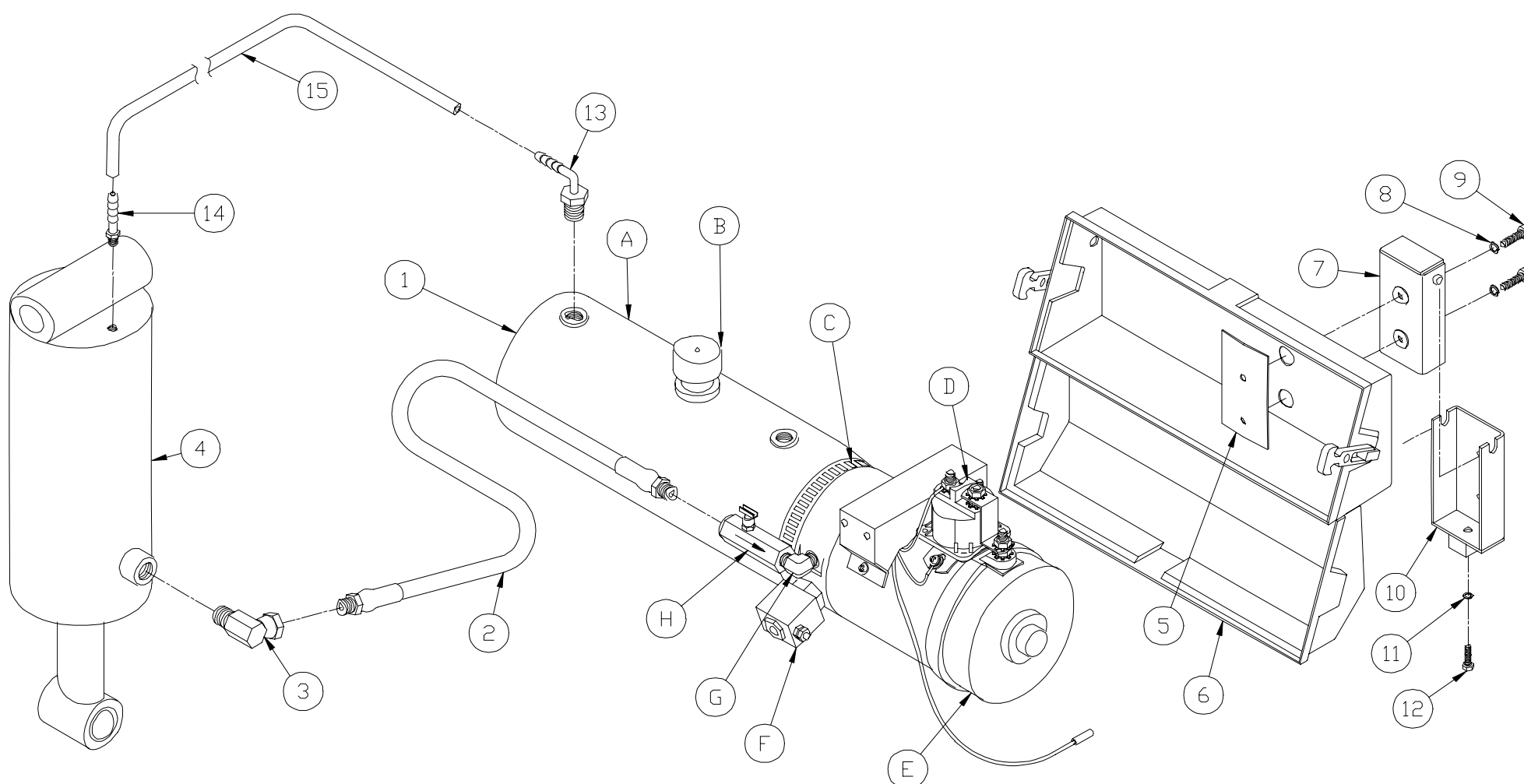
WALTCO  
TRUCK EQUIPMENT CO.  
F-20, 30 & E SERIES

REVISED: 1-28-94

PM-341

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400025	1	Hydraulic Pump Unit
*A	70091739	1	Motor
*B	70092531	1	Solenoid
*C	75089850	1	Fuse Holder
*D	75089852	1	20 AMP Fuse
*E	70400026	1	Control Cord
*F	70091734	1	Breather
*G	70400027	1	Hydraulic Reservoir
*H	75083031	1	90° Swivel Elbow
*J	75082611	1	90° Male Elbow
2	75083073	2	Hose Assembly
3	75083016	1	45° Swivel Elbow
4	75083018	1	45° Swivel Elbow
5	20280090	1	Hydraulic Cylinder
6	10090500	1	Pump Cover Assembly
7	10021000	1	Pump Mounting Bracket
8	75088081	3	3/8" Lock Washer
9	75086056	3	Hex Bolt, 3/8"-16 x 1" LG., Grade 5
10	10022000	1	Pump Mounting Bracket Channel
11	75085193	1	Flex Nut, 3/8"-16
12	10021500	1	Pump Mounting Bracket
13	75088083	1	1/2" Lock Washer
14	75086108	1	Hex Bolt, 1/2"-13 x 1-1/2" LG., Grade 2
15	70110040	1	Flow Control Valve

## FSL HYDRAULIC LAYOUT



**WALTCO  
TRUCK EQUIPMENT CO.  
FSL**

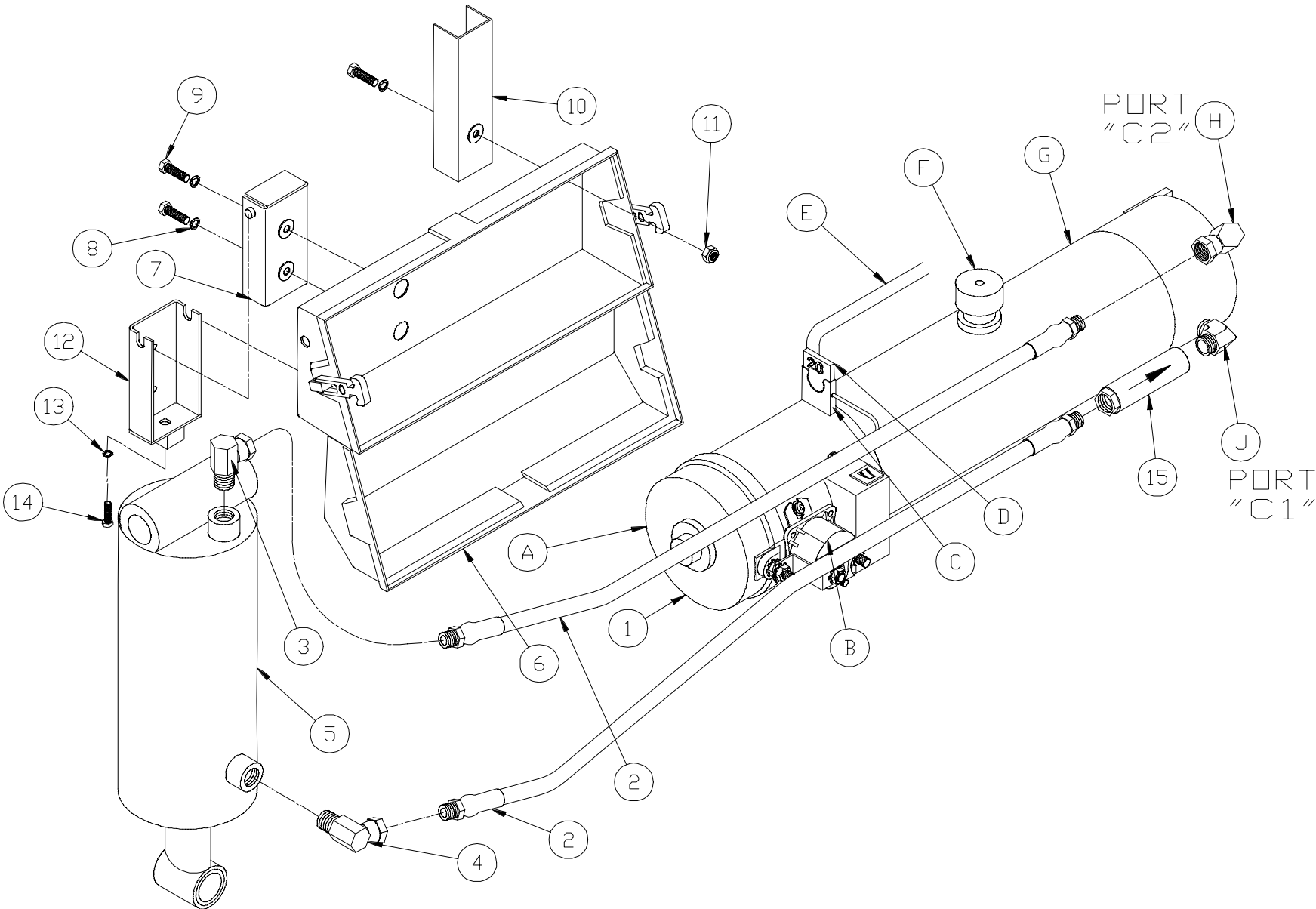
REVISED: 11/8/02  
E.O. 4790  
REV. 12

**PM-379**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400000	1	Hydraulic Pump Unit, Electropak®
	70400700		Hydraulic Pump Unit, Thermalpak® with Voltage Guard™
*A	70400701 <sup>A</sup>	1	Hydraulic Reservoir
*B	70091734 <sup>A</sup>	1	Breather
*C	70400002 <sup>A</sup>	1	Reservoir Clamp
*D	70092531 <sup>A</sup>	1	Solenoid with Cable Strap Kit
	75089831		Solenoid
*E	70092359 <sup>A</sup>	1	Motor, Electropak®
	70400854		Motor, Thermalpak® with Voltage Guard™
*F	70400003 <sup>A</sup>	1	Release Valve
*G	75082611 <sup>A</sup>	1	90° Male Elbow
*H	70189860 <sup>A</sup>	1	Flow Control Valve
2	75083073	1	Hose Assembly
3	75083018	1	45° Swivel Elbow
4	20280050	1	Hydraulic Cylinder
5	10021400	1	Pump Bracket Plate
6	10090500	1	Pump Cover Assembly
7	10021000	1	Pump Mounting Bracket
8	75088081	2	3/8" Lock Washer
9	75086056	2	Hex Bolt, 3/8"-16 x 1" LG. Grade 5
10	10021500	1	Pump Mounting Bracket
11	75088083	1	1/2" Lock Washer
12	75086108	1	Hex Bolt, 1/2"-13 x 1-1/2" LG. Grade 2
13	75082742	1	Barbed Fitting, 3/8" NPTF x 1/4" 90 Degree
14	75082741	1	Barbed Fitting, 1/8" NPTF x 1/4" Straight
15	26299500	1	Hose 1/4" I.D. x 36" LG.

<sup>A</sup> These parts included in 70400000 (Electropak<sup>®</sup>) or 70400700 (Thermalpak<sup>®</sup> with Voltage Guard<sup>™</sup>) Assembly.

F, E, FSL ELECTRICA CONTROLS POWER DOWN ELECTROPAK & THERMALPAK



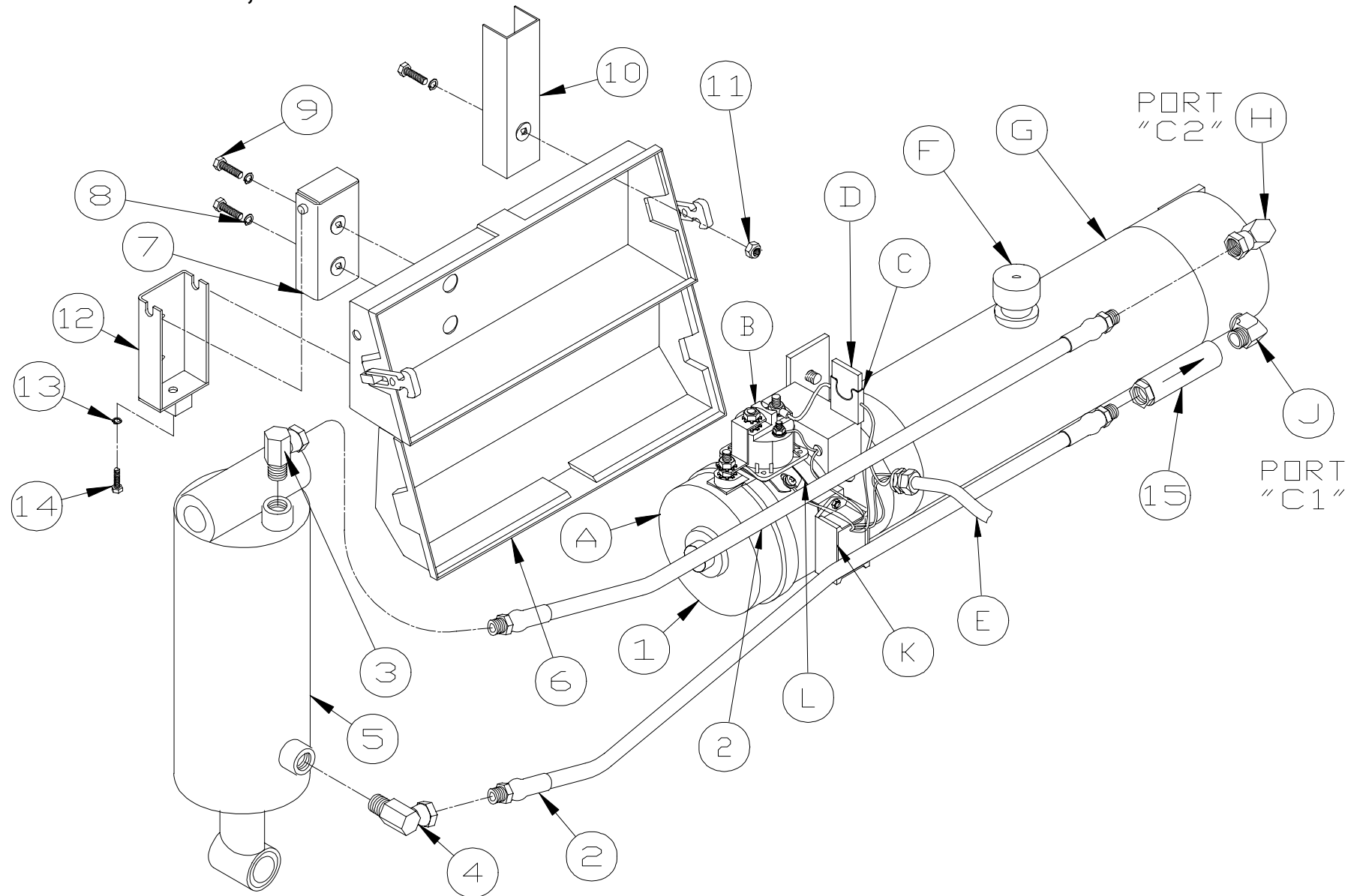
WALTCO  
TRUCK EQUIPMENT CO.  
F, E, FSL SERIES

REVISED: 3-98  
E.O. 3462C  
REV. 06

PM-380

ITEM	PART NUMBER	QTY	DESCRIPTION
1	<a href="#">70400025</a>	1	Hydraulic Pump Unit, ELECTROPAK
	<a href="#">70400725</a>	1	Hydraulic Pump Unit, THERMALPAK
*A	70091739	1	Motor, ELECTROPAK
	70400851	1	Motor W/Reset Switch, THERMALPAK
*B	70092531	1	Solenoid, ELECTROPAK
	75089831	1	Solenoid, THERMALPAK
*C	75089850	1	Fuse Holder
*D	75089852	1	20 AMP Fuse
*E	70400026	1	Control Cord
*F	70091734	1	Breather
*G	70400027	1	Hydraulic Reservoir
*H	75083031	1	90° Swivel Elbow
*J	75082611	1	90° Male Elbow
2	75083073	2	Hose Assembly
3	75083016	1	45° Swivel Elbow
4	75083018	1	45° Swivel Elbow
5	<a href="#">20280020</a>	1	Hydraulic Cylinder
6	10090500	1	Pump Cover Assembly
7	10021000	1	Pump Mounting Bracket
8	75088081	3	3/8" Lock Washer
9	75086056	3	Hex Bolt, 3/8"-16 x 1" LG., Grade 5
10	10022000	1	Pump Mounting Bracket Channel
11	75085193	1	Flex Nut, 3/8"-16
12	10021500	1	Pump Mounting Bracket
13	75088083	1	1/2" Lock Washer
14	75086108	1	Hex Bolt, 1/2"-13 x 1-1/2" LG., Grade 2
15	70110040	1	Flow Control Valve

ELECTRIC CONTROLS, POWER DOWN



WALTCO  
TRUCK EQUIPMENT CO.  
E, F, & FSL

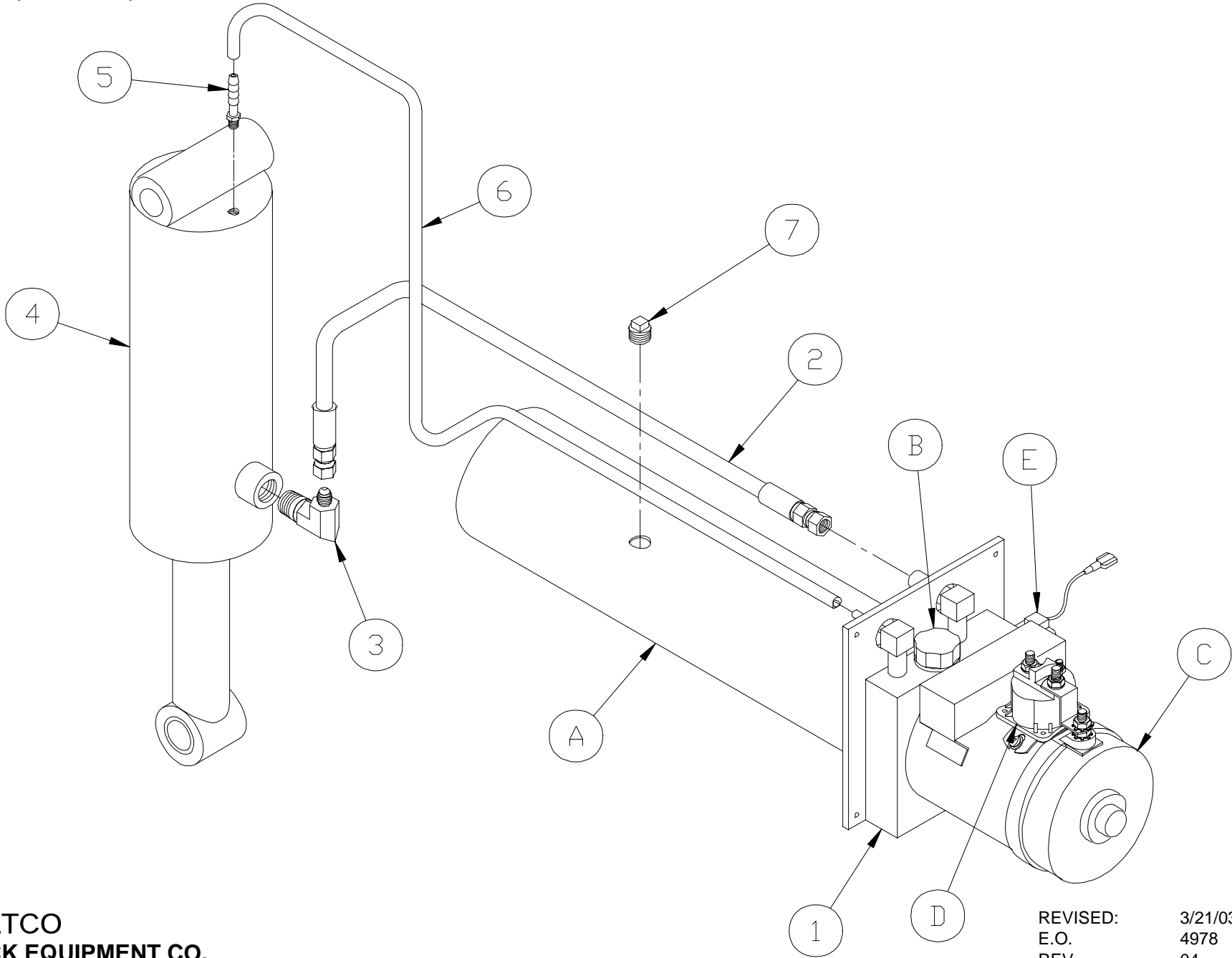
REVISED: 7-18-03  
E.O. 5073  
REV. 03

PM-494

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400025	1	Hydraulic Pump Unit, Electropak®
	70400725		Hydraulic Pump Unit, Thermalpak® with Voltage Guard™
*A	70091739	1	Motor, Electropak®
	70400855		Motor, Thermalpak® with Voltage Guard™
*B	75089831	1	Solenoid
*C	75089850	1	Fuse Holder
*D	75089853	1	5 AMP Fuse
*E	70400026	1	Control Cord
*F	70091734	1	Breather
*G	70400027	1	Hydraulic Reservoir
*H	75083031	1	90° Swivel Elbow
*J	75082611	1	90° Male Elbow
*K	10099303	1	Power Down Module, 12 volt
	10099304		Power Down Module, 24 volt
*L	75090052	1	Hose Clamp, Worm Drive
2	75083073	2	Hose Assembly
3	75083016	1	45° Swivel Elbow
4	75083018	1	45° Swivel Elbow
5	20280020	1	Hydraulic Cylinder
6	10090500	1	Pump Cover Assembly
7	10021000	1	Pump Mounting Bracket
8	75088081	3	3/8" Lock Washer
9	75086056	3	Hex Bolt, 3/8"-16 x 1" LG. Grade 5
10	10022000	1	Pump Mounting Bracket Channel
11	75085193	1	Flex Nut, 3/8"-16
12	10021500	1	Pump Mounting Bracket
13	75088083	1	1/2" Lock Washer
14	75086108	1	Hex Bolt, 1/2"-13 x 1-1/2" LG. Grade 2
15	70110040	1	Flow Control Valve

\*These parts included in 70400025 (Electropak®) or 70400725 (Thermalpak® with Voltage Guard™) Assembly

F-20RM, F-30RM, E-25RM AND E-30RM HYDRAULIC LAYOUT



WALTCO  
TRUCK EQUIPMENT CO.  
F-20RM, F-30RM, E-25RM,  
E-30RM SERIES

REVISED: 3/21/03  
E.O. 4978  
REV. 04

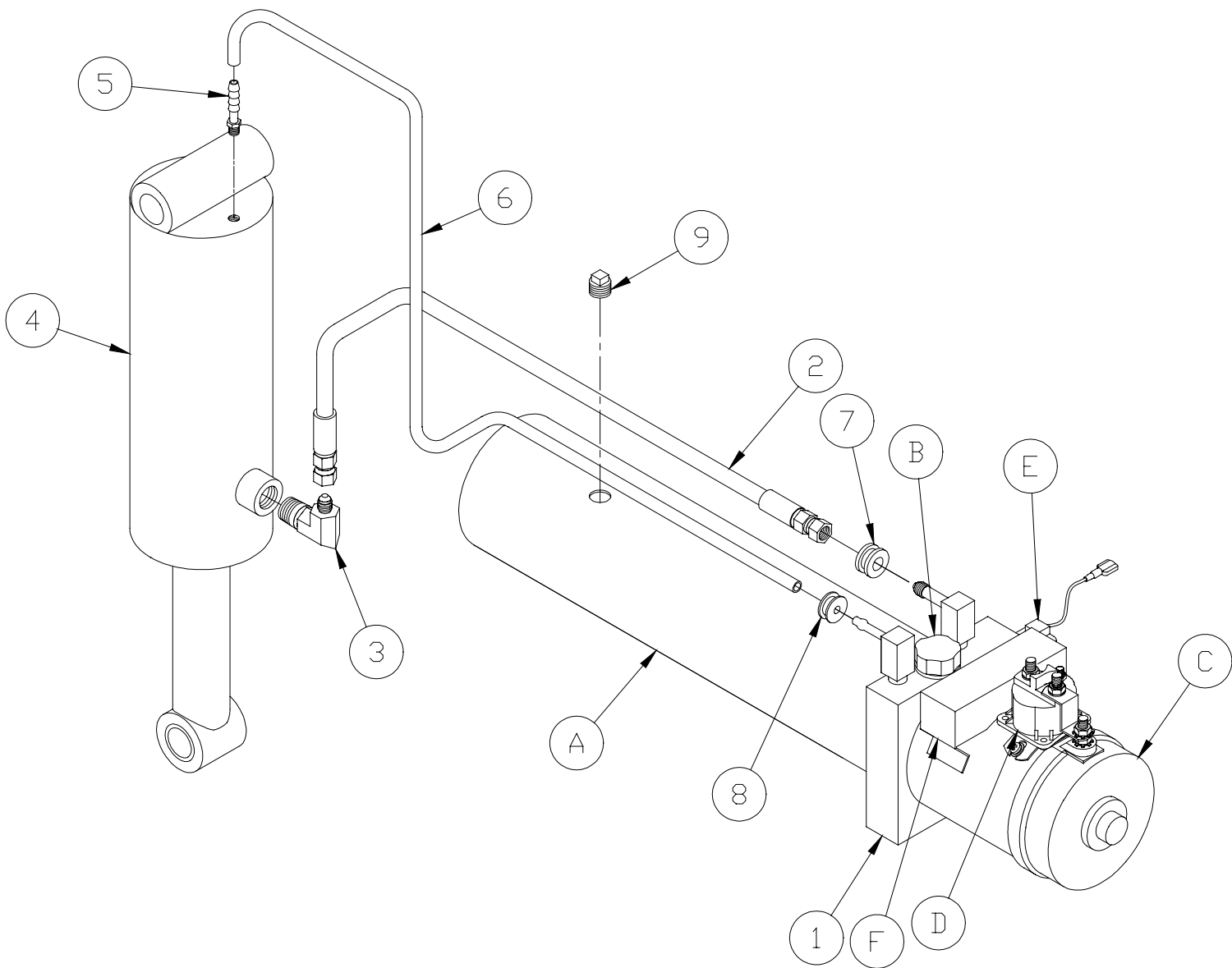
PM-519

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401400	1	Hydraulic Pump Unit Electropak®
	70401450		Hydraulic Pump Unit Thermalpak® with Voltage Guard™
A	70401456	1	Hydraulic Reservoir
B	70091734	1	Breather
C	70092359	1	Motor Assembly Electropak®
	70400854		Motor Assembly Thermalpak® with Voltage Guard
D	75089822	1	Starter Solenoid
E	70401476	1	Valve Assembly, 2-way, 2 position
2	75083202	1	Hose, 1/4" I.D. x 1/4" JIC x 3/8 JIC
3	75083211	1	90° Elbow, 3/8" NPT x 1/4" JIC
4	20280010 <sup>A</sup>	1	Hydraulic Cylinder
5	75082741 <sup>A</sup>	1	Barbed Fitting, 1/8" NPTF x 1/4" Straight
6	26299500 <sup>A</sup>	1	Hose, 1/4" I.D.
7	70401457	1	Steel Plug

<sup>A</sup> Included in Cylinder Replacement Kit 20295401.



HYDRAULIC LAYOUT, GRAVITY DOWN



**WALTCO**  
TRUCK EQUIPMENT CO.  
F-20RM, F-30RM  
E-25RM, E-30RM

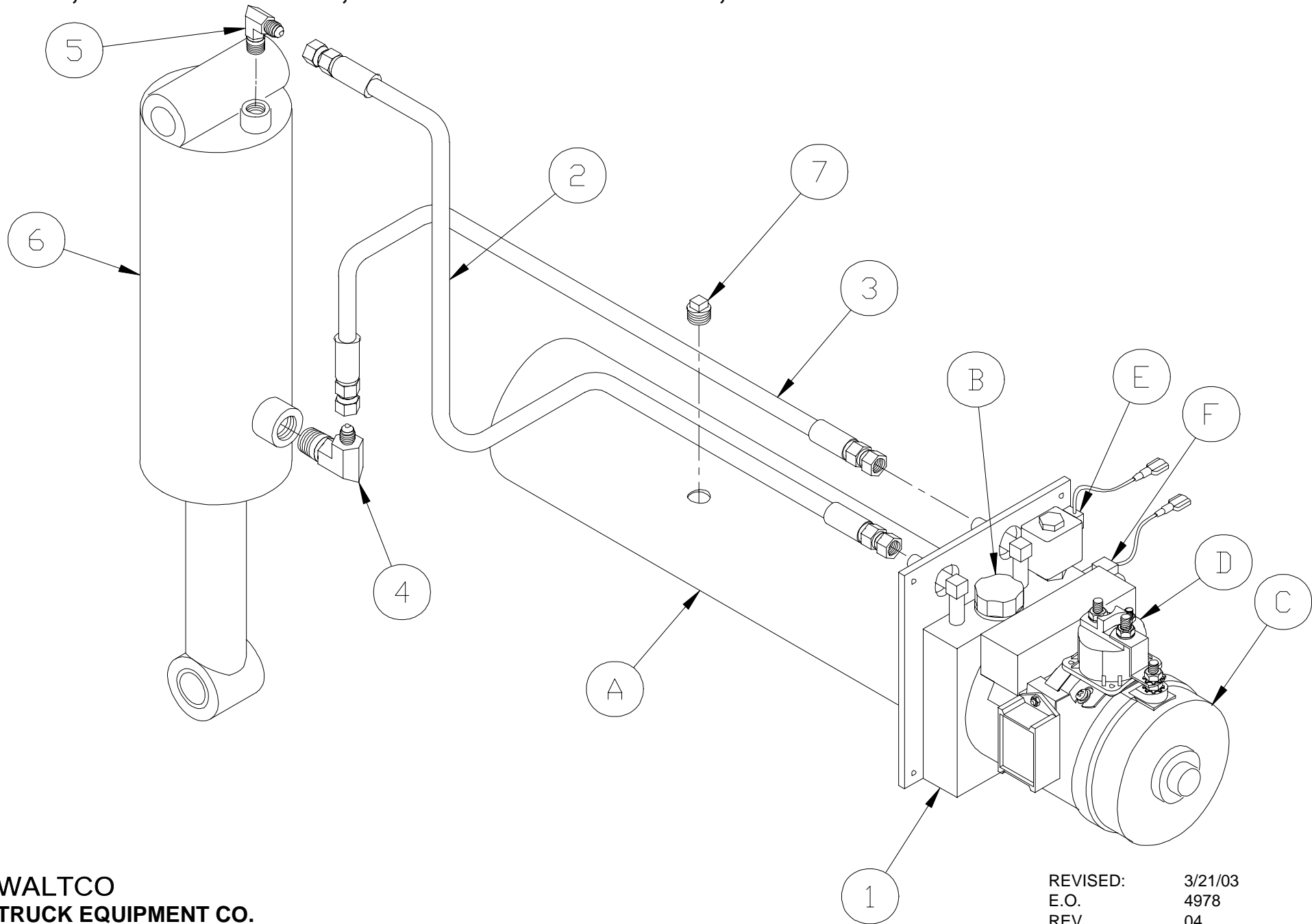
REVISED: 1/16/04  
E.O. 5130  
REV. 01

**PM-619**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401900	1	Hydraulic Pump Unit Electropak®
	70401950		Hydraulic Pump Unit Thermalpak® with Voltage Guard™
A	70400001	1	Hydraulic Reservoir
B	70400004	1	Breather
C	70092312 <sup>A</sup>	1	Motor
D	75089831 <sup>A</sup>	1	Starter Solenoid
E	70401476	1	Valve Assembly, 2-way, 2 position
F	10099403 <sup>A</sup>	1	Thermalpak® with Voltage Guard™
2	75083202	1	Hose, 1/4" I.D. x 1/4" JIC x 3/8 JIC
3	75083211	1	90° Elbow, 3/8" NPT x 3/8" JIC
4	20280010 <sup>B</sup>	1	Hydraulic Cylinder
5	75082741 <sup>B</sup>	1	Barbed Fitting, 1/8" NPTF x 1/4" Straight
6	26299500 <sup>B</sup>	1	Hose, 1/4" I.D.
7	70401408	1	7/16" I.D. Grommet
8	70401409	1	1/4" I.D. Grommet
9	70091291	1	Steel Plug

<sup>A</sup> Included in Thermalpak® Motor Assembly 70400854.  
<sup>B</sup> Included in Cylinder Replacement Kit 20295401.

F-20RM, F-30RM AND E-25RM, E-30RM HYDRAULIC LAYOUT, POWER DOWN



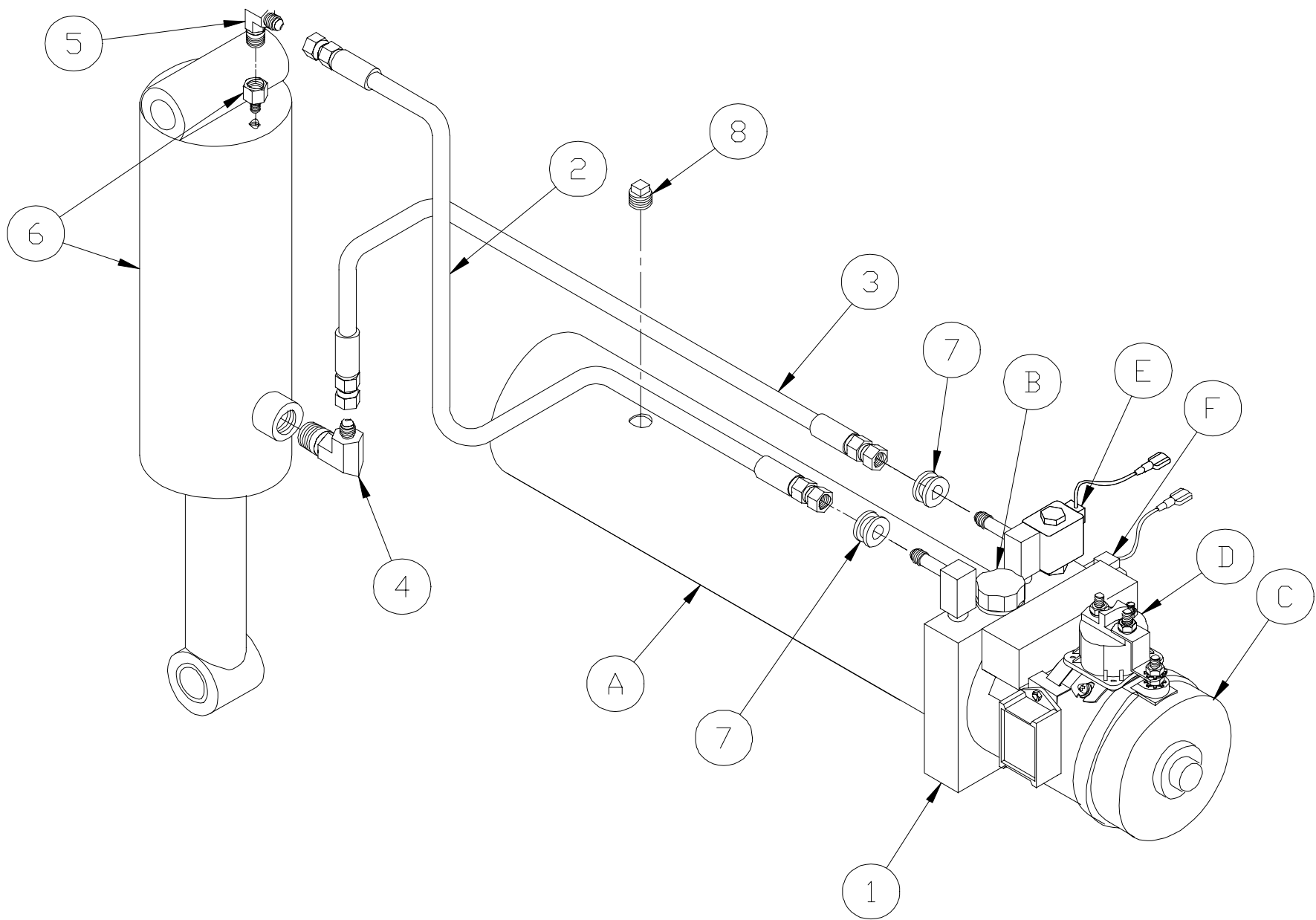
WALTCO  
TRUCK EQUIPMENT CO.  
F-20RM, F-30RM, E-25RM,  
E-30RM SERIES

REVISED: 3/21/03  
E.O. 4978  
REV. 04

PM-520

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401425	1	Hydraulic Pump Unit Electropak®
	70401475		Hydraulic Pump Unit Thermalpak® with Voltage Guard™
A	70401456	1	Hydraulic Reservoir
B	70091734	1	Breather
C	70091739	1	Motor Assembly Electropak®
	70400855		Motor Assembly Thermalpak® with Voltage Guard™
D	75089822	1	Starter Solenoid
E	70401476	1	Valve Assembly, 2-way, 2 position
F	70401477	1	Valve assembly, 4-way, 2 position
2	75083201	1	Hose, 1/4" I.D. x 1/4" JIC x 1/4 JIC, 57"
3	75083202	1	Hose, 1/4" I.D. x 1/4" JIC x 3/8 JIC, 45"
4	75083211	2	90° Elbow, 3/8" NPT x 1/4" JIC
5	75083212	1	45° Elbow, 1/4" NPT x 1/4" JIC
6	20280020	1	Hydraulic Cylinder
7	70401457	1	Steel Plug

HYDRAULIC LAYOUT, POWER DOWN

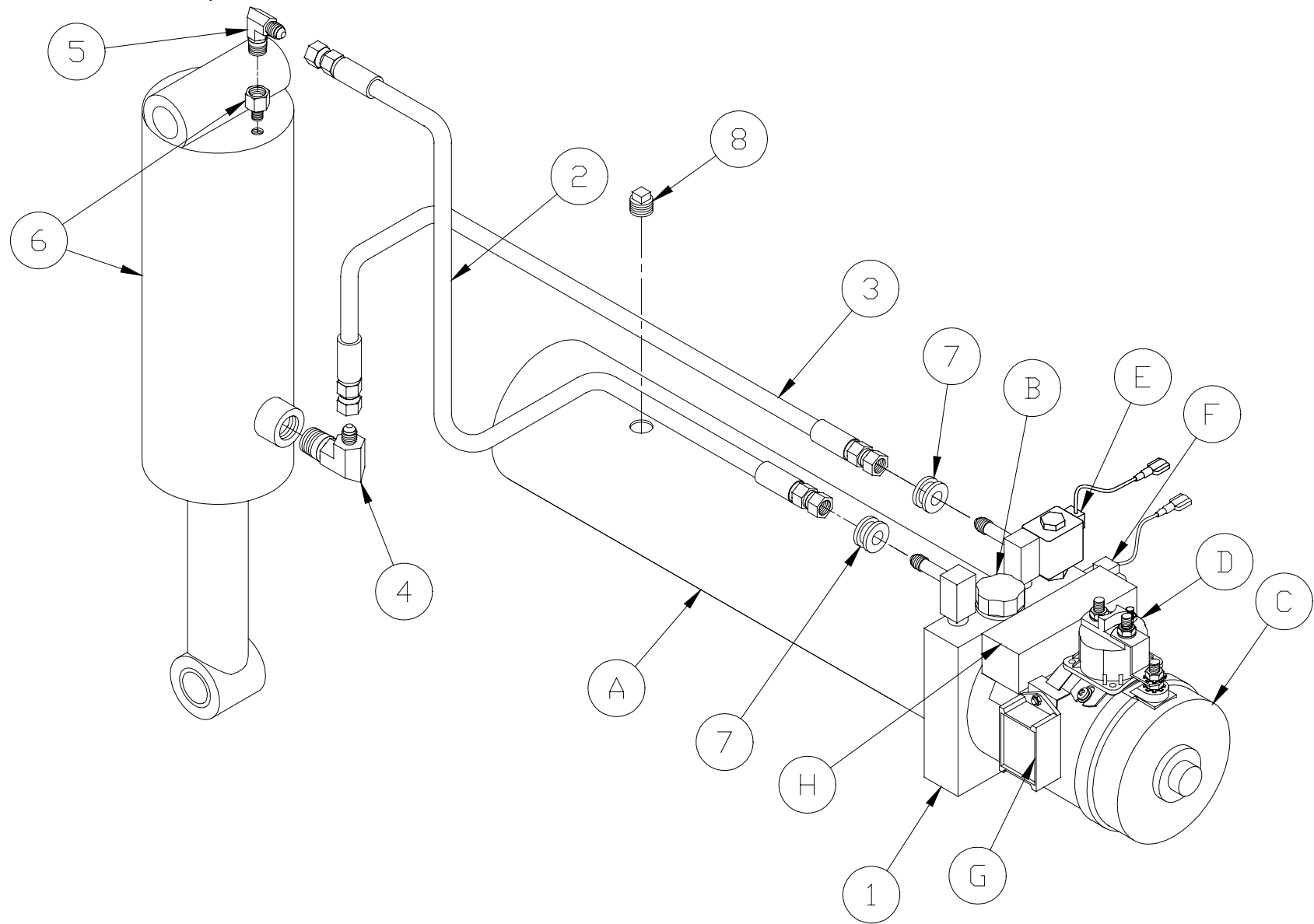


WALTCO  
TRUCK EQUIPMENT CO.  
MODEL

REVISED: 9/26/03  
E.O. 5034  
REV. 04  
**PM-520A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401775	1	Hydraulic Pump Unit Electropak®
	70401725		Hydraulic Pump Unit Thermalpak® with Voltage Guard™
A	70401456	1	Hydraulic Reservoir
B	70091734	1	Breather
C	70400855	1	Motor Assembly Electropak®
	70092359		Motor Assembly Thermalpak® with Voltage Guard™
D	75089831	1	Starter Solenoid
E	70401476	1	Valve Assembly, 2-way, 2 position
F	70401477	1	Valve assembly, 4-way, 2 position
2	75083200	1	Hose, 1/4" I.D. x 1/4" JIC x 1/4 JIC, 45"
3	75083202	1	Hose, 1/4" I.D. x 1/4" JIC x 3/8 JIC, 45"
4	75083211	2	90° Elbow, 3/8" NPT x 3/8" JIC
5	75083212	1	45° Elbow, 1/4" NPT x 1/4" JIC
6	20280020	1	Hydraulic Cylinder and Reducer
7	70401408	2	7/16" I.D. Grommet
8	70401457	1	Steel Plug

HYDRAULIC LAYOUT, POWER DOWN



**WALT****CO**  
TRUCK EQUIPMENT CO.  
F-20RM, F-30RM  
E-25RM, E-30RM

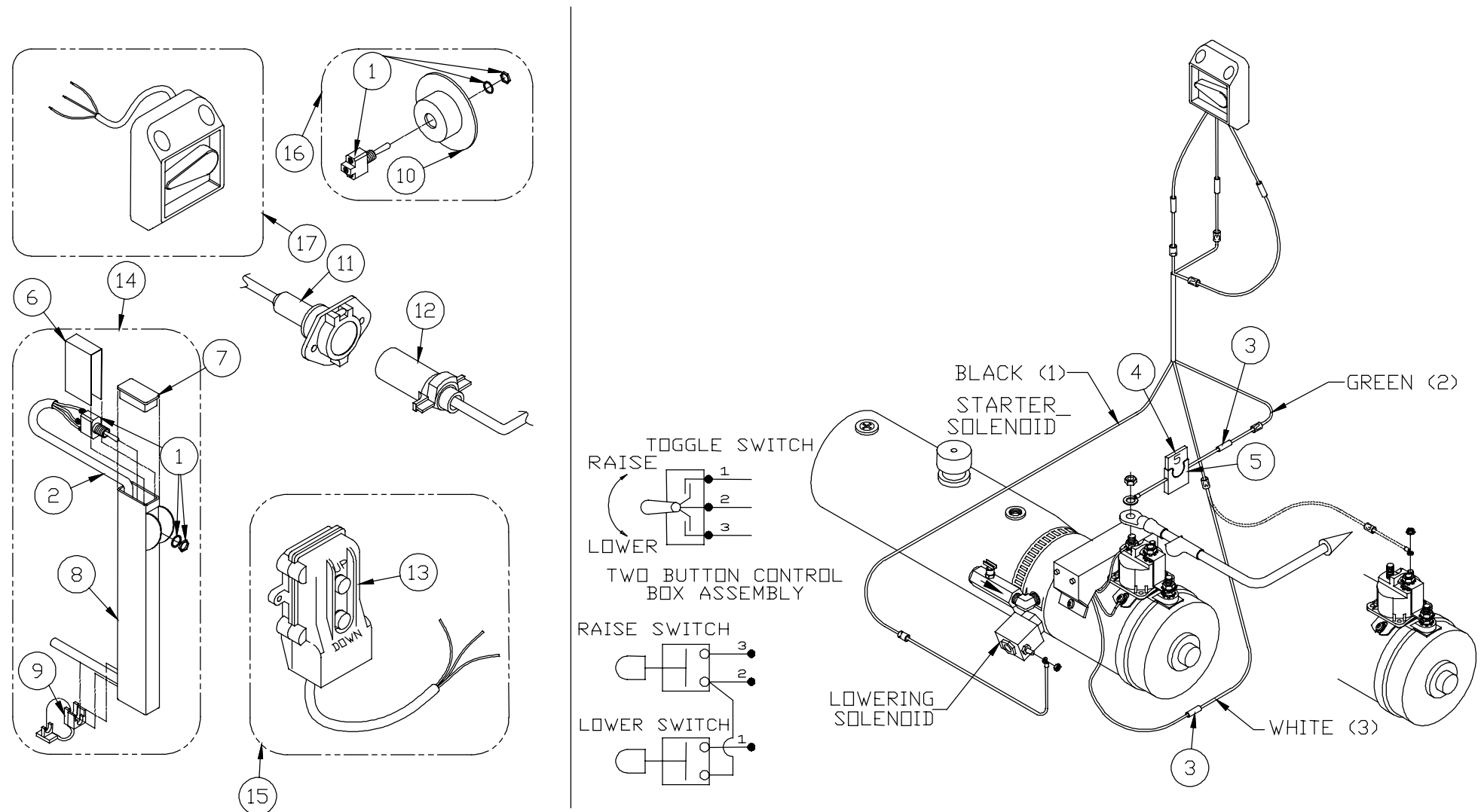
REVISED: 2-1-04  
E.O. 5221A  
REV. 02

**PM-620**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401925	1	Hydraulic Pump Unit Electropak®
	70401975		Hydraulic Pump Unit Thernalpak® with Voltage Guard™
A	70400001	1	Hydraulic Reservoir
B	70400004	1	Breather
C	70092312 <sup>A</sup>	1	Motor
D	75089831 <sup>A</sup>	1	Starter Solenoid
E	70401476	1	Valve Assembly, 2-way, 2 position
F	70401477	1	Valve assembly, 4-way, 2 position
G	80001032 <sup>A</sup>	1	Power Down Module
H	10099403 <sup>A</sup>	1	Thernalpak® with Voltage Guard™
2	75083200	1	Hose, 1/4" I.D. x 1/4" JIC x 1/4 JIC, 45"
3	75083202	1	Hose, 1/4" I.D. x 1/4" JIC x 3/8 JIC, 45"
4	75083211	2	90° Elbow, 3/8" NPT x 3/8" JIC
5	75083212	1	45° Elbow, 1/4" NPT x 1/4" JIC
6	20280020	1	Hydraulic Cylinder and Reducer
7	70401408	2	7/16" I.D. Grommet
8	70091291	1	Steel Plug

<sup>A</sup> Included in Thernalpak® Motor Assembly 70400855.

ELECTRIC CONTROL OPTIONS, GRAVITY DOWN

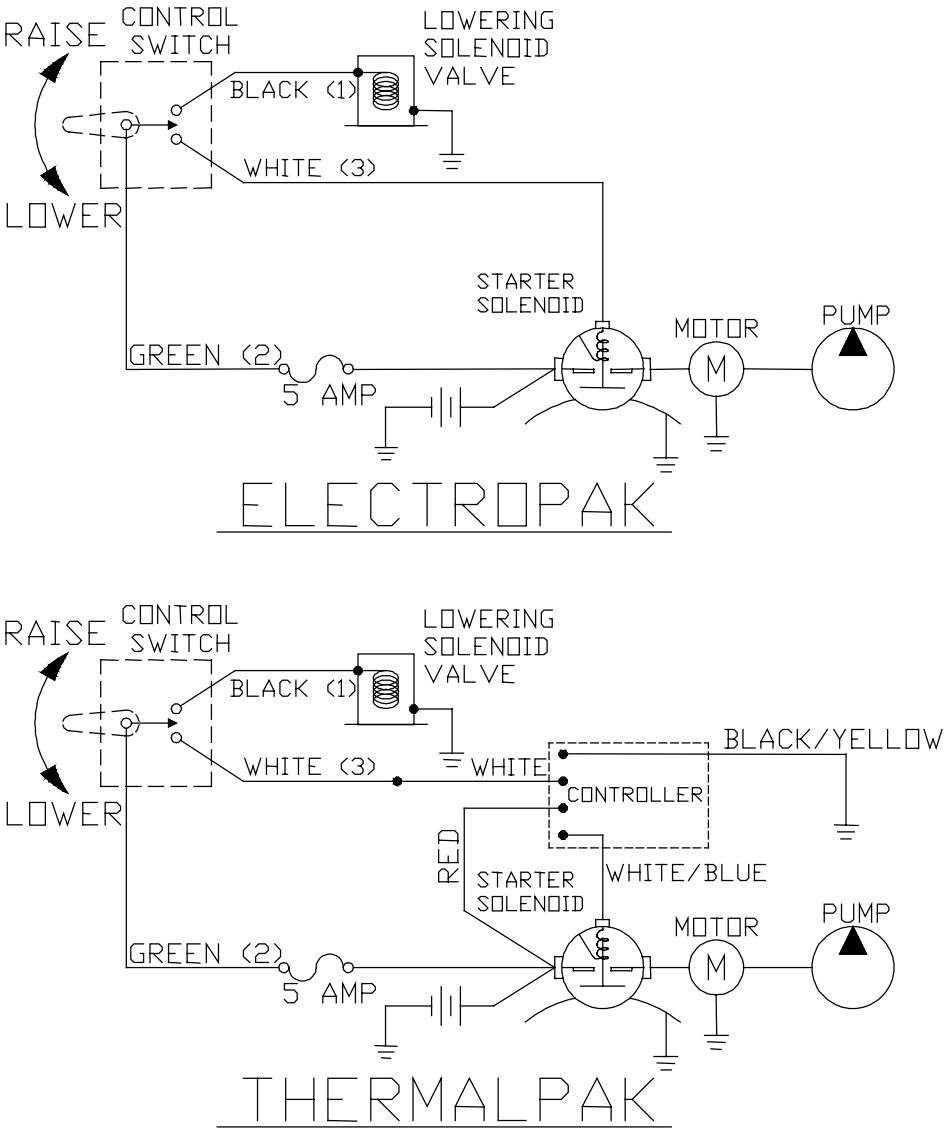


WALTCO  
TRUCK EQUIPMENT CO.

REVISED: 12-1-03  
E.O. 5221  
REV. 13

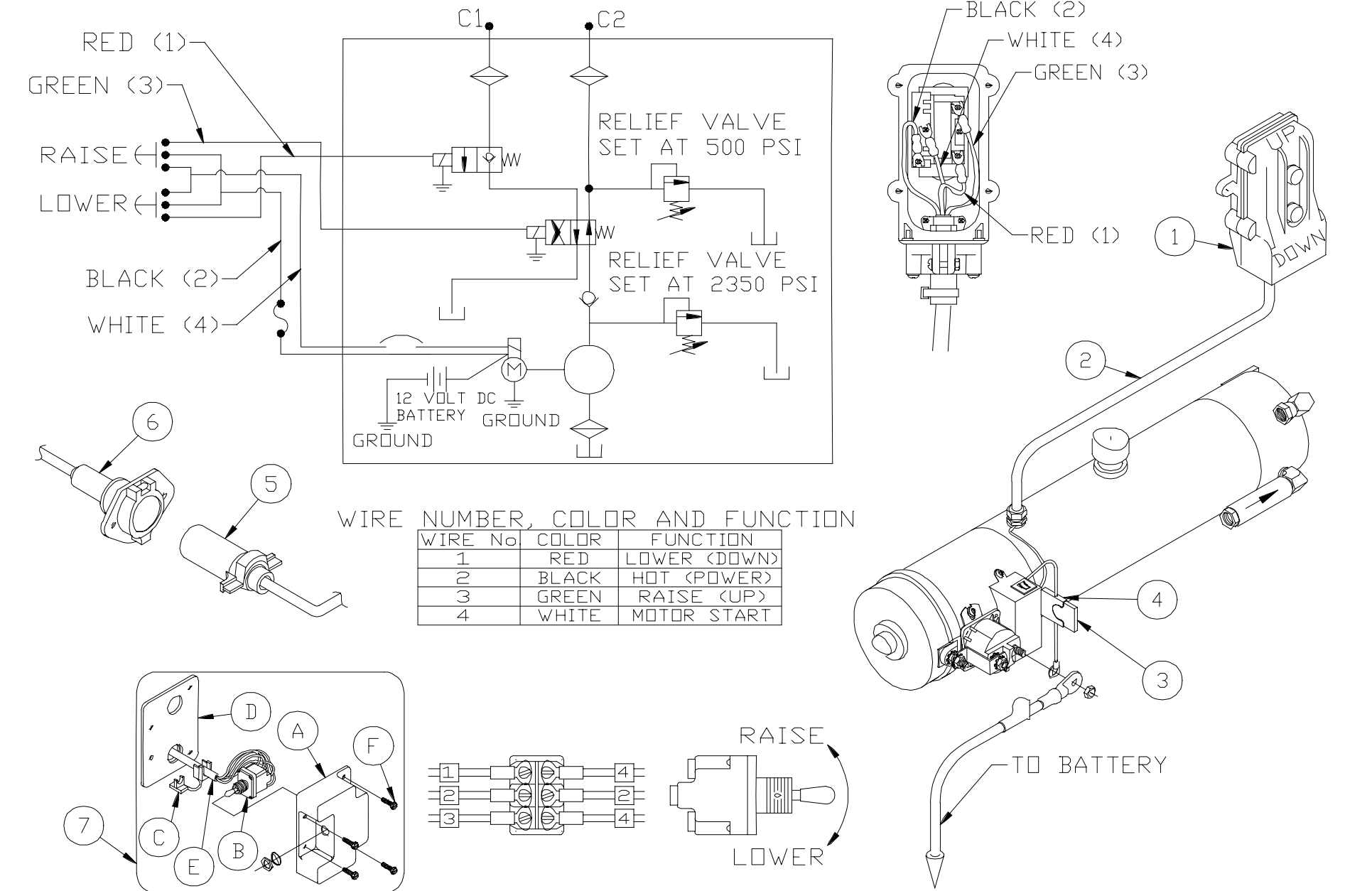
PM-343

ITEM	PART NUMBER	QTY	DESCRIPTION
1	75089808	1	Toggle Switch
2	10098400	1	Control Cord Assembly
3	75082033	2	16 Ga. Butt Connector
4	75089853	1	5 AMP Fuse
5	75089850	1	Fuse Holder
6	33574100	1	Dielectric Insulation
7	33520900	1	Plug
8	10098100	1	Control Tube Assembly
9	75080055	1	Strain Relief
10	75089813	1	Recessed Switch Plate
11	75082038	1	Trailer Socket
12	75082037	1	Trailer Plug
13	75089798	1	Push Button Box Assembly
*14	10098000		Toggle Switch & Tube Kit
*15	75089800	1	Remote Box Straight Cord
	75089799	1	Remote Box Coil Cord
	80000470	1	Remote Box Straight Cord w/ plug & socket
	80000469	1	Remote Box Coil Cord w/ plug & socket
*16	80000468	1	Toggle Switch Kit
*17	10099300	1	SuperSwitch
	10099302	1	Remote SuperSwitch
	80000423	1	SuperSwitch Control Kit
	80000424	1	SuperSwitch Dual Control Kit
	80000425	1	SuperSwitch Conversion Kit
	80000799	1	Remote SuperSwitch Kit
**Boxed assemblies represent complete kits			



WIRE No.	COLOR	FUNCTION
1	BLACK	LOWER (DOWN)
2	GREEN	HOT (POWER)
3	WHITE	RAISE (UP)

ELECTRIC CONTROL OPTIONS, POWER DOWN



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TRUCK EQUIPMENT CO.

REVISED: 12-18-98  
E.O. 3768  
REV. 04

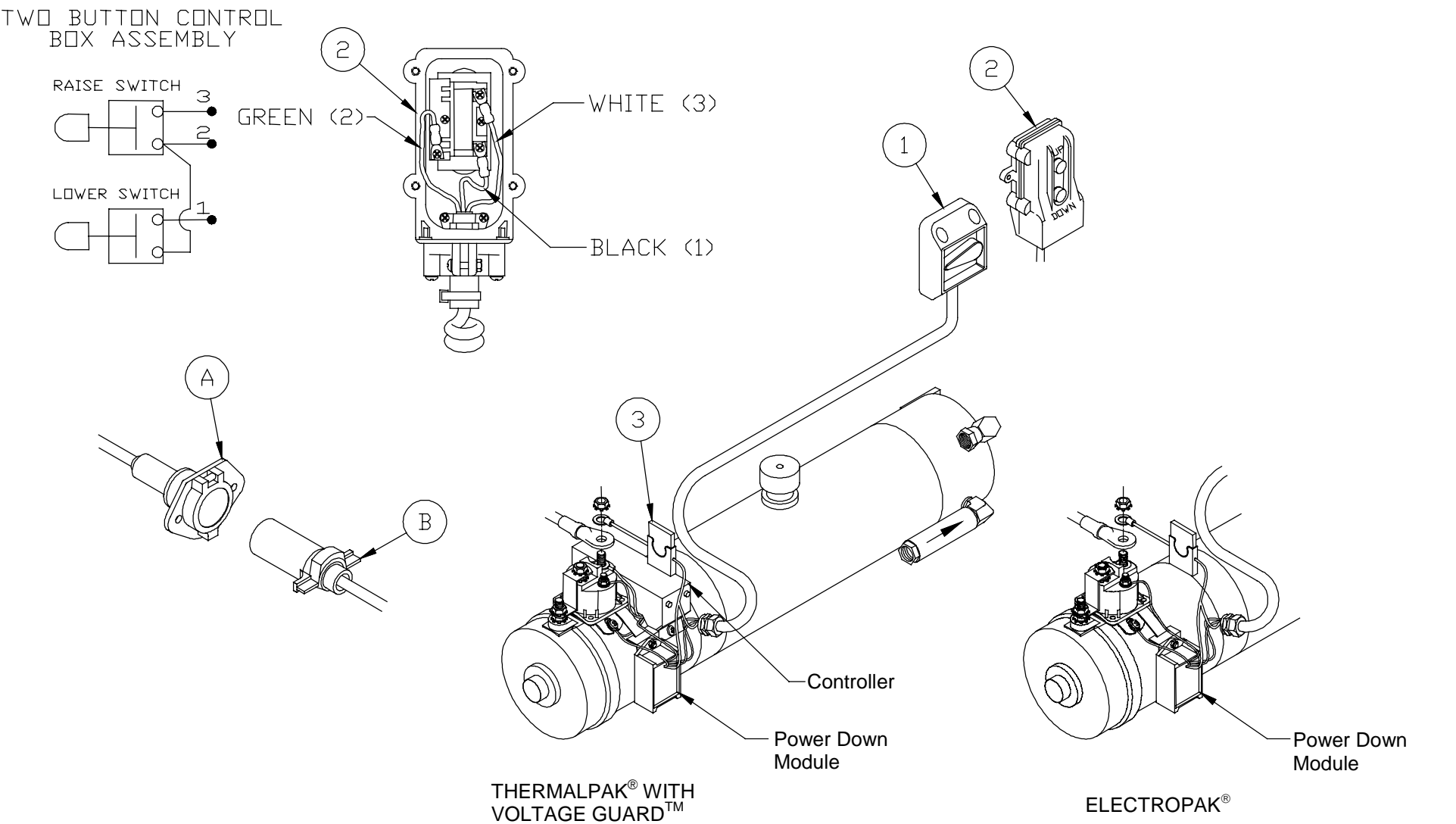
PM-344

ITEM	PART NUMBER	QTY	DESCRIPTION
1	75089798	1	Remote Push Button Box Assembly
2	70400026	1	Control Cord
3	75089852	1	20 AMP Fuse
4	75089850	1	Fuse Holder
5	75082037	1	Trailer Plug (Optional)
6	75082038	1	Trailer Socket (Optional)
7	80000727		Power Down Control Kit
	80000728		Flipaway Power Down Dual Control Kit
*A	10098106	1	Switch Housing
*B	75089810	1	Toggle Switch
*C	75080055	1	Strain Relief
*D	10098206	1	Gasket
<sup>a</sup> E	10098406	1	Control Cord Assembly(10')
	10098407		Control Cord Assembly (15') (Dual Control)
*F	75086919	4	#10 x 1" lg Self Tapping Screw

\* These parts are included in kit 80000727 and 80000728.

<sup>a</sup> These parts are included in kit 80000727 or 80000728.

ELECTRIC CONTROL OPTIONS, POWER DOWN



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TRUCK EQUIPMENT CO.

REVISED: 12-1-03  
E.O. 5221  
REV. 05

PM-489

ITEM	PART NUMBER	QTY	DESCRIPTION
1	10099300*		SuperSwitch™
	10099302**		Remote SuperSwitch™
	22595007		Superswitch Power Down Kit
2	75089798 <sup>A</sup>		Push Button Switch
	75089799 <sup>B</sup>		Remote Push Button Switch with Coil Cord
	75089800 <sup>C</sup>		Remote Push Button Switch w/Straight Cord
	80000797		Push Button Power Down Kit
	80000795		Remote Push Button Power Down Kit, CC
	80000796		Remote Push Button Power Down Kit, SC
A	75082037 <sup>BC</sup>		Trailer Plug
B	75082038 <sup>BC</sup>		Trailer Socket
3	75089853		5 amp Fuse

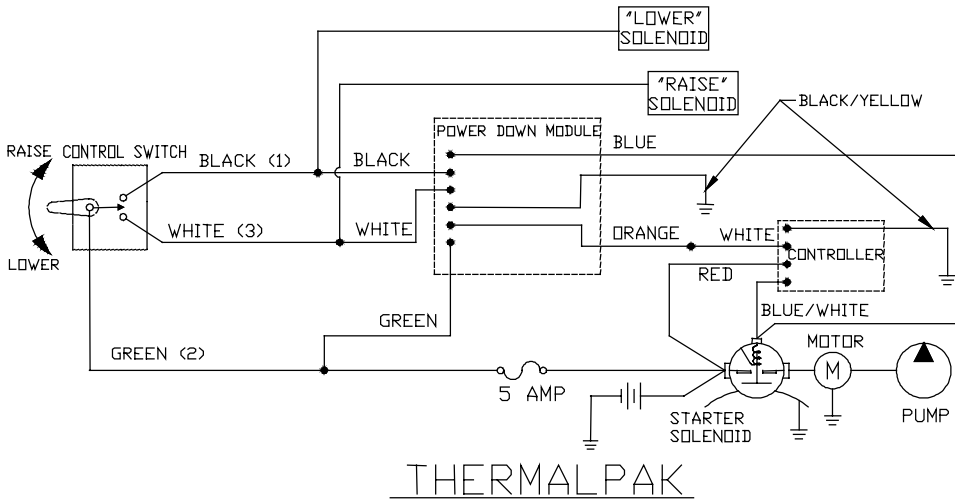
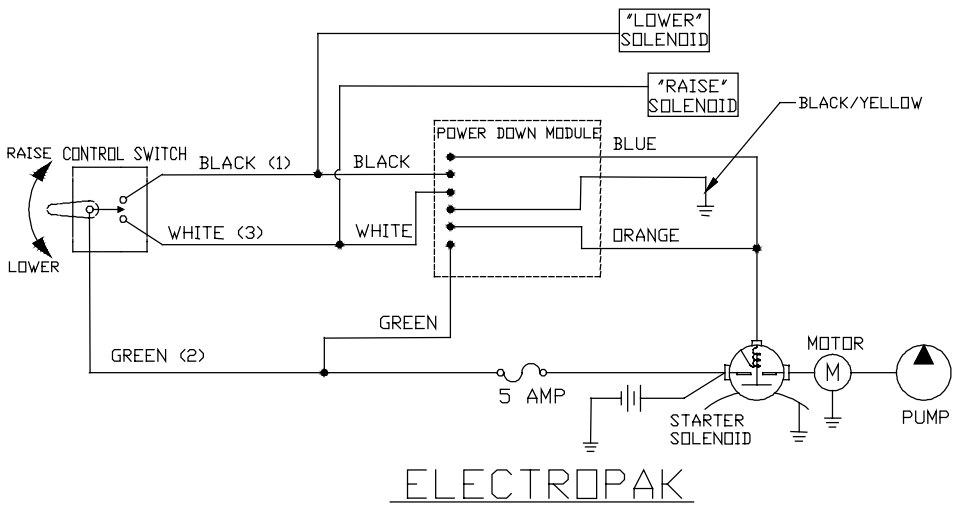
\* Included in kit 22595007

\*\* Included in kit 80000978

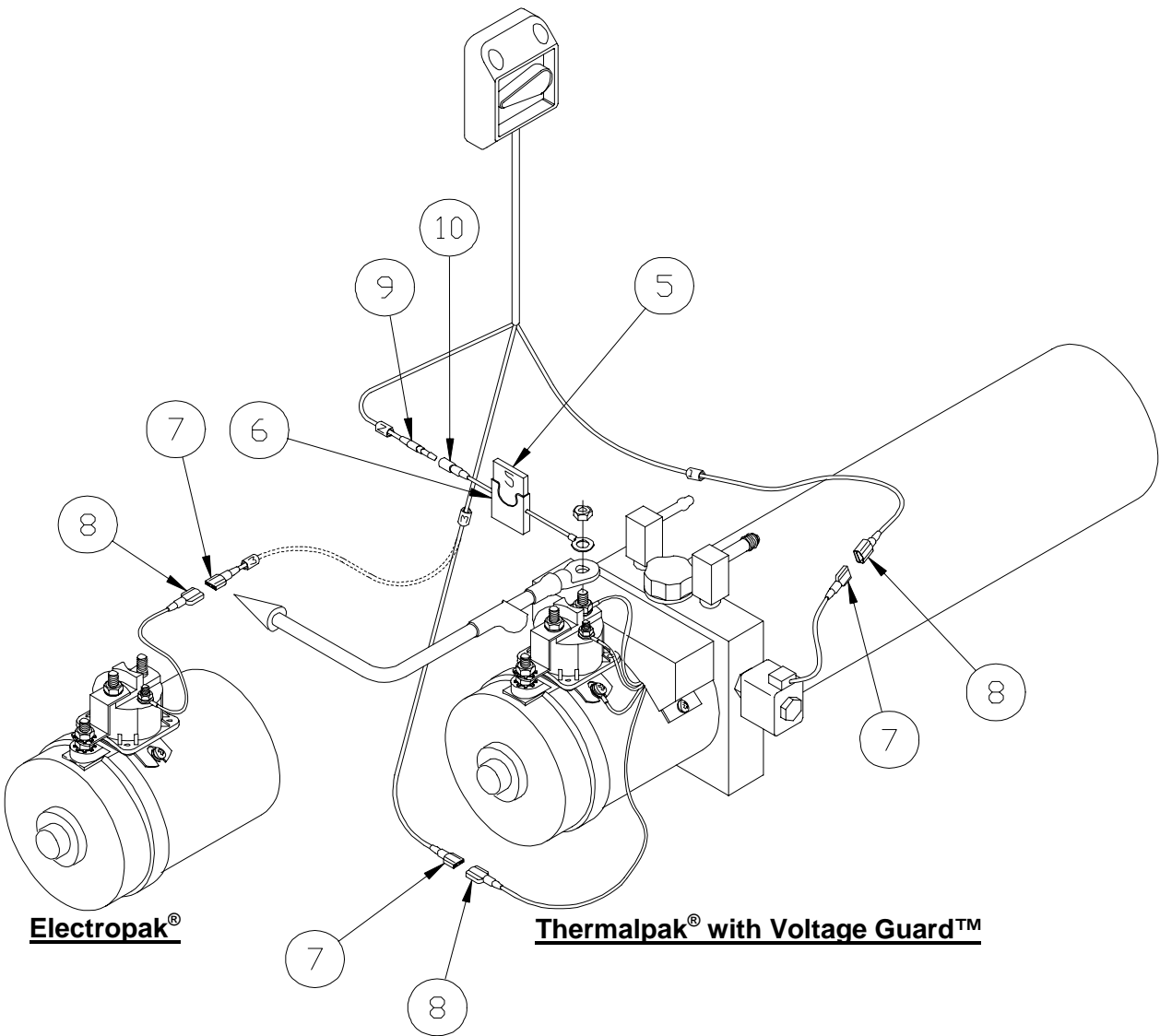
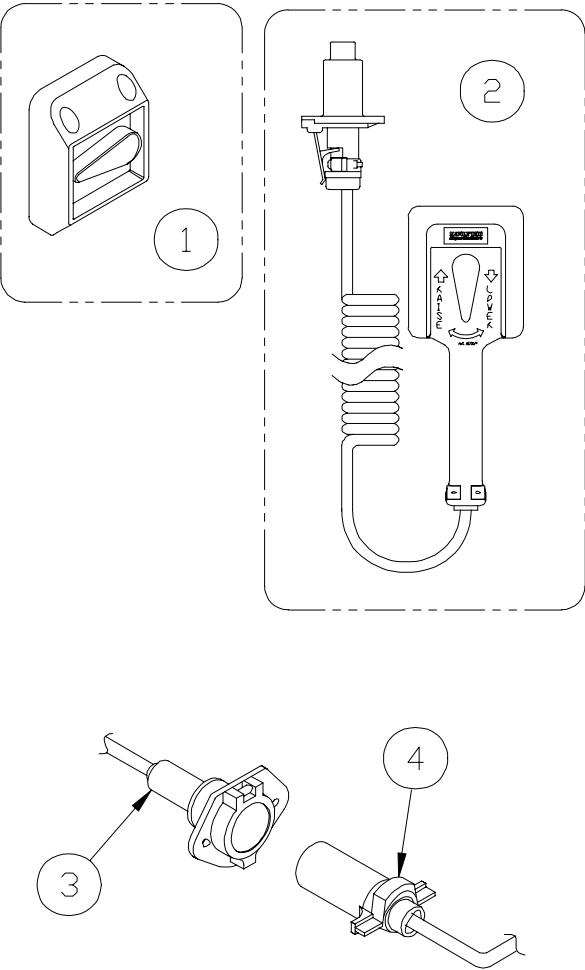
<sup>A</sup> Included in kit 80000797

<sup>B</sup> Included in kit 80000795

<sup>C</sup> Included in kit 80000796



ELECTRIC CONTROL OPTIONS – Gravity Down



WALTCO  
TRUCK EQUIPMENT CO.

REVISED: 12-1-03  
E.O. 5221  
REV. 01

PM-617

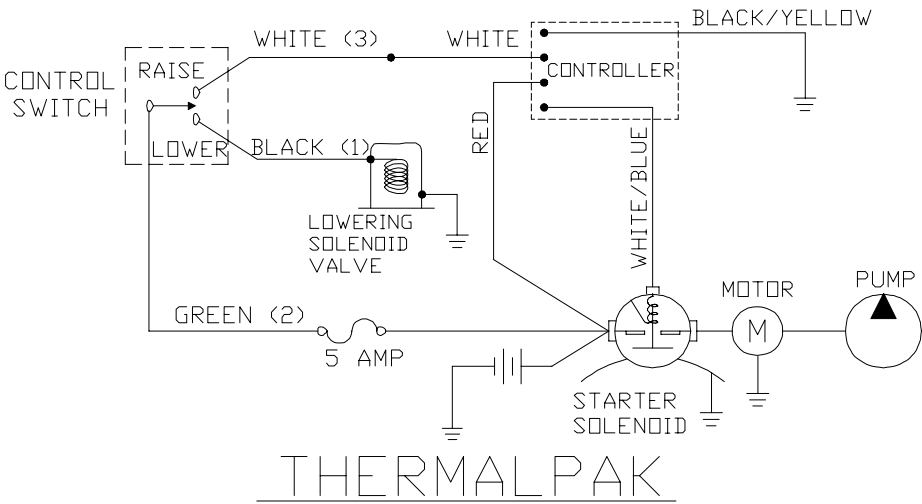
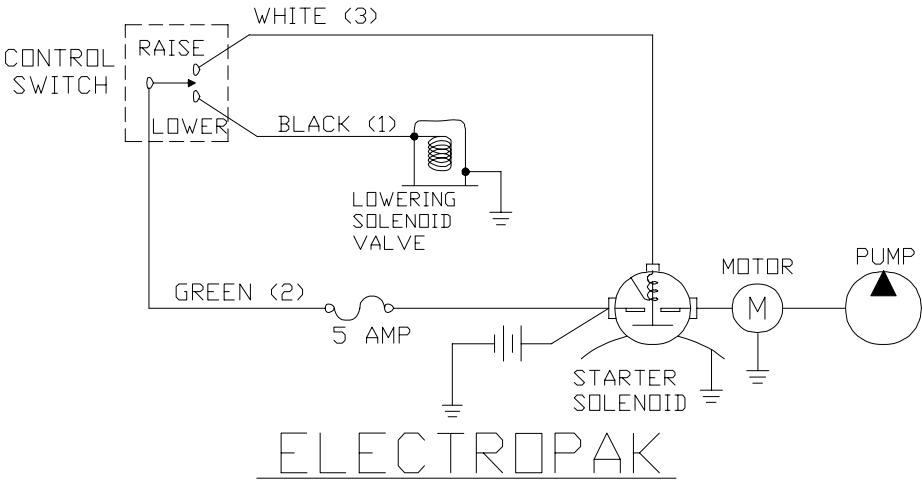
ITEM	PART NUMBER	QTY	DESCRIPTION
1	10099306 <sup>a</sup>	1	SuperSwitch™ (for curb side)
	10099300 <sup>b</sup>	1	SuperSwitch™ (for Dual Control Harness)
2	10099302 <sup>c</sup>	1	SuperSwitch™ (Hand Held Remote)
3	75082038	1	Trailer Socket
4	75082037	1	Trailer Plug
5	75089853	1	5 Amp Fuse
6	75089850	1	Fuse Holder
7	75082017 <sup>c</sup>	1	16-14 Ga. Female Slide-On Terminal
8	75082019 <sup>c</sup>	1	16-14 Ga. Male Slide-On Terminal
9	75082014 <sup>c</sup>	1	16-14 Ga. Male Bullet Connector
10	75082015 <sup>c</sup>	1	16-14 Ga. Female Bullet Connector

<sup>a</sup> Included in SuperSwitch™ Kit 80000428.

<sup>b</sup> Included in SuperSwitch™ Dual Control Kit 80000429.

<sup>c</sup> Included in SuperSwitch™ Hand Held Remote Kit 80000430.

WIRE No.	COLOR	FUNCTION
1	BLACK	LOWER (DOWN)
2	GREEN	HOT (POWER)
3	WHITE	RAISE (UP)



The diagram illustrates the components of the power tool, numbered 1 through 4:

- 1. Switch: A rectangular component with a trigger switch and two circular buttons.
- 2. Power cord: A long, coiled cable with a standard power plug and a connector for the motor.
- 3. Motor: A cylindrical component with a mounting bracket.
- 4. Gear assembly: A component with a central shaft and a gear, used for driving the cutting disc.

THERMALPAK

<sup>c</sup> Included in SuperSwitch™ Hand Held Remote Kit 80000430.

# E & E RM-SERIES PUMPS & CYLINDER Parts Drawings

If unsure of the correct pump or cylinder part number, click [here](#).

## QUICK TIP:

Most pumps have a pump pressure decal on them that also includes the pump part number. This number will always be an 8-digit part number. If still unsure, please contact Waltco for assistance.

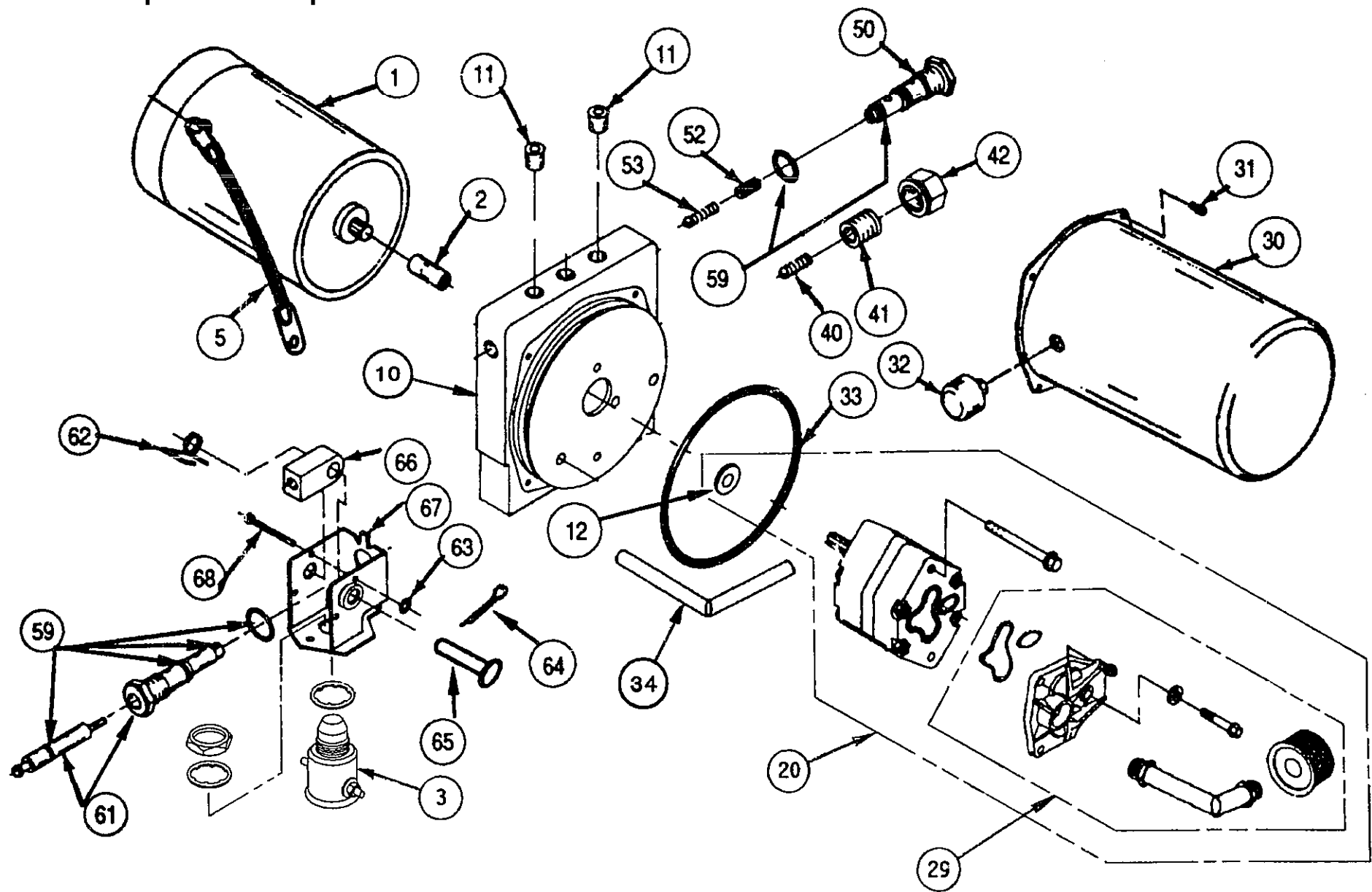
## CYLINDERS

Part Number	Description	PM No.
20280050	Lift Cylinder	<a href="#">PM-211</a>
20280010	Lift Cylinder	<a href="#">PM-263</a>
20280020	Lift Cylinder	<a href="#">PM-264</a>
20280090	Lift Cylinder	<a href="#">PM-585</a>

## HYDRAULIC PUMPS

Part Number	Description	Pump Mfr.	PM No.
22195000	Hydraulic Pump Assembly	Fenner	<a href="#">PM-110B</a>
26295050	Hydraulic Pump Assembly	Fenner	<a href="#">PM-286</a>
70400225	Hydraulic Pump Assembly	Monarch	<a href="#">PM-398</a>
70400300	Hydraulic Pump Assembly	Monarch	<a href="#">PM-398</a>
70400500	Hydraulic Pump Assembly	Monarch	<a href="#">PM-398</a>
30195000	Hydraulic Pump Assembly	Fenner	<a href="#">PM-111B</a>
20295000	Hydraulic Pump Assembly	Fenner	<a href="#">PM-247A</a>
70400000	Hydraulic Pump Assembly	Monarch	<a href="#">PM-352</a>
70400025	Hydraulic Pump Assembly	Monarch	<a href="#">PM-354</a>
70400700	Hydraulic Pump Assembly	Monarch	<a href="#">PM-510</a>
70400725	Hydraulic Pump Assembly	Monarch	<a href="#">PM-511</a>
70401400	Hydraulic Pump Assembly	Monarch	<a href="#">PM-555</a>
70401450	Hydraulic Pump Assembly	Monarch	<a href="#">PM-558</a>
70401425	Hydraulic Pump Assembly	Monarch	<a href="#">PM-556</a>
70401475	Hydraulic Pump Assembly	Monarch	<a href="#">PM-559</a>
70401700	Hydraulic Pump Assembly	Monarch	<a href="#">PM-555</a>
70401750	Hydraulic Pump Assembly	Monarch	<a href="#">PM-558</a>
70401725	Hydraulic Pump Assembly	Monarch	<a href="#">PM-556</a>
70401775	Hydraulic Pump Assembly	Monarch	<a href="#">PM-559</a>
70401900	Hydraulic Pump Assembly	Monarch	<a href="#">PM-555</a>
70401950	Hydraulic Pump Assembly	Monarch	<a href="#">PM-558</a>
70401925	Hydraulic Pump Assembly	Monarch	<a href="#">PM-556</a>
70401975	Hydraulic Pump Assembly	Monarch	<a href="#">PM-559</a>

Solenoid Operated Pump Unit



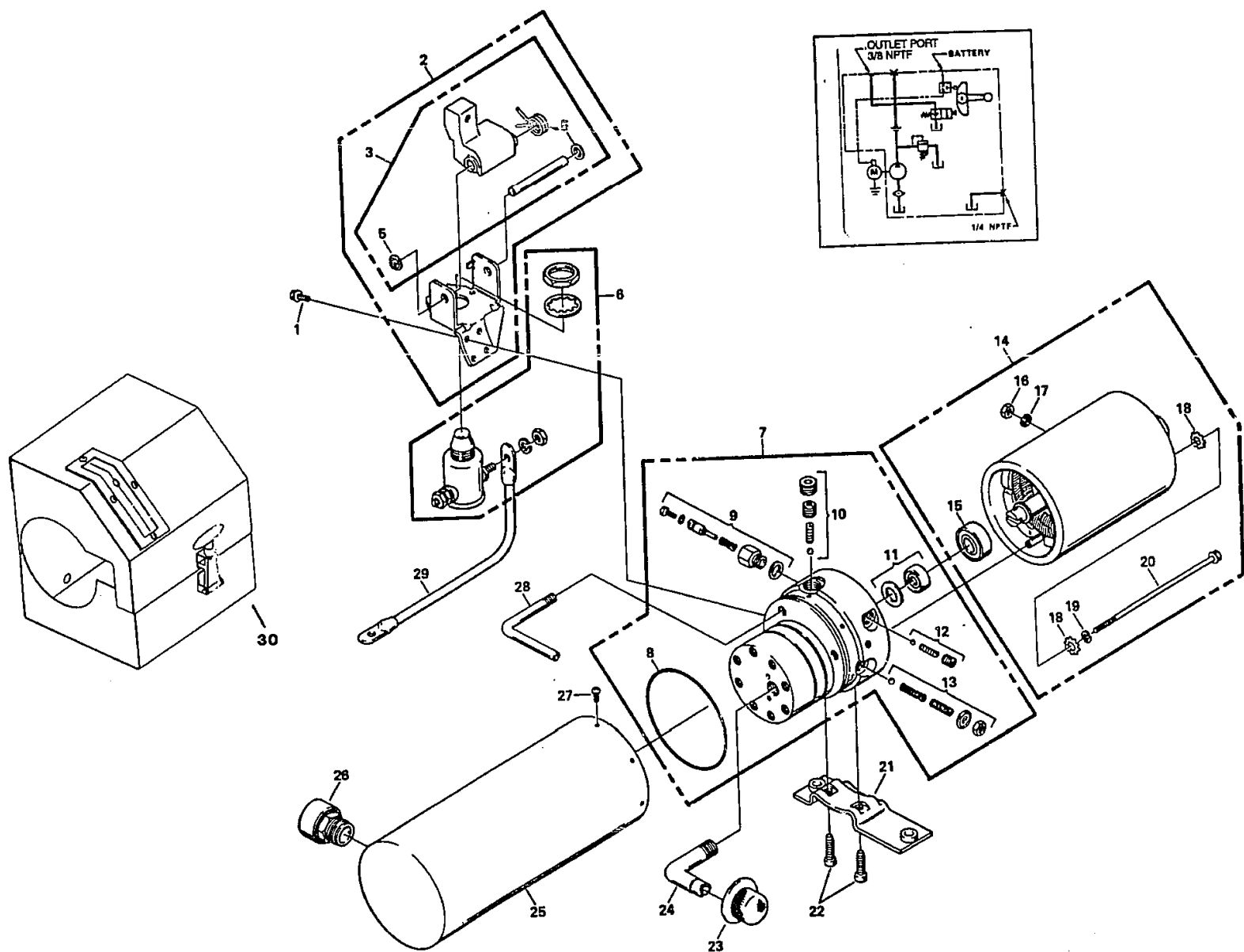
WALTCO  
TRUCK EQUIPMENT CO.  
22195000

REVISED: 4-16-99  
E.O. 3620  
REV. 03  
**PM-110B**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70392900	1	Motor
2	70091618	1	Coupling
3	80000692	1	Switch Kit
5	70091260	1	Terminal Cable Assembly
10	70091274	1	End Head
11	70091291	2	Plug
12	70091629	1	Shaft Seal
20	70091615	1	Pump Assembly Kit
29	70091758	1	Suction Cover Kit
30	70091262	1	Reservoir
31	70091285	4	Screw
32	70091270	1	Breather Cap
33	75000027	1	“O” Ring
34	70091493	1	Return Tube
40	70091249	1	Ball
	70091250	1	Spring
41	70091295	1	Adjustment Screw
42	70091294	1	Relief Cap Assembly
50	70091395	1	Check Cap Assembly
52	70091296	1	Spring Retainer
53	70091281	1	Spring & Ball Assembly
59			Valve Seal Kit
	75000025	1	“O” Ring
	75000026	2	“O” Ring
	75000036	2	“O” Ring
	70091297	2	Seal Ring
61	80000722	1	Release Cap Stem Assembly
62	70160009*	1	Spring
63	70091602*	1	Grip Ring
64	70091604*	1	Cotter Pin
65	70091603	1	Headed Pin
66	70091266*	1	Cam
67	70091277*	1	Mounting Bracket Assembly
68	70091601*	1	Headed Pin

\* Items included in switch kit 70091279

22195050 / 26295050 PUMP UNIT (MONARCH)



WALTCO  
TRUCK EQUIPMENT CO.  
22195050 / 26295050

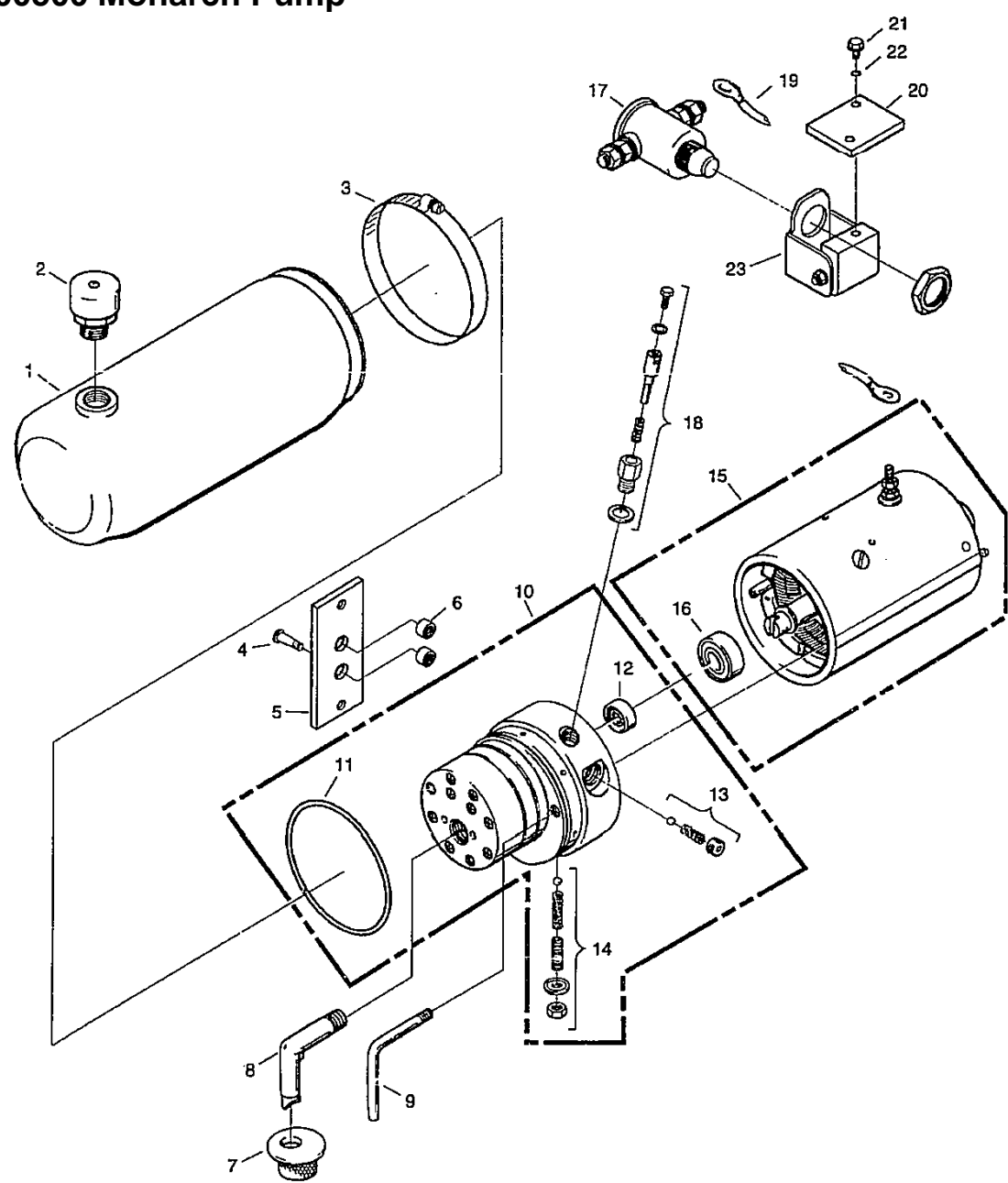
REVISED: 8-16-02  
E.O. 4839  
REV. 04  
PM-286

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70092330	4	1/4"-20 x 5/8" Hex Head Screw
2	70092350	1	Bracket Assembly
3	70092351	1	Lever Assembly
4	-----	--	-----
5	70092352	1	Spring & Retainer Kit
6	70092304	1	Start Switch
7	70092305	1	Pump Assembly
8	70091717	1	O-Ring
9	70092307	1	Plunger
10	70091718	1	Check Valve (Main)
11	70091719	1	Seal & Gasket
12	70092310	1	Check Valve (Descending)
13	70092355	1	Relief Valve
14	70092312	1	Motor (12 VDC Electric)
15	70091721	1	Bearing (Motor Base)
16	70091722	1	5/16"-24 Hex Nut
17	70091723	1	5/16" Lock Washer
18	70091724	4	1/4" Start Washer
19	70091725	2	1/4" Lock Washer
20	70091726	2	1/4"-20 x 6-1/2" Hex Head Screw
21	70092356	1	Bracket
22	70092357	2	Screw
23	70091730	1	Filter Screen (Suction)
24	70091731	1	3/8" NPT 90° Filter Suction Tube
25	70092325	1	Reservoir
26	70091734	1	Breather
27	70091738	6	10-24 x 3/8" Screw
28	70092328	1	1/8" NPT Return Tube
29	70092402	1	6 Ga. x 4-1/2" Cable Assembly
30	22190501	1	Pump Box Assembly (Optional)

NOTE: When ordering entire pump unit, order by appropriate liftgate model

LIFTGATE	PUMP UNIT
E-25	26295050
C-SERIES	22195050

70400225, 70400300, 70400500 Monarch Pump



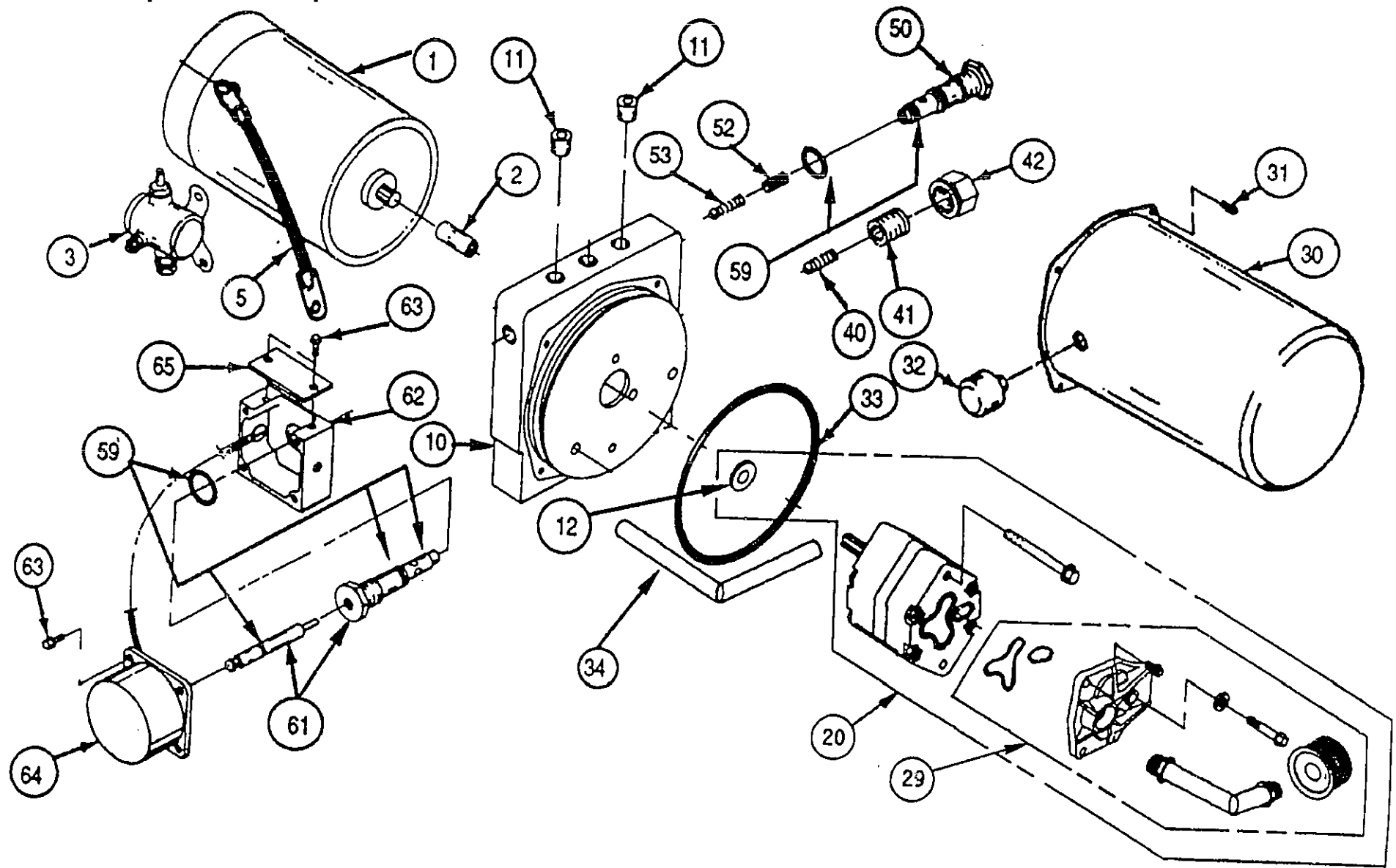
WALTCO  
TRUCK EQUIPMENT CO.  
70400225, 70400300,  
70400500

REVISED: 5-23-97  
E.O. 3216  
REV. 01

PM-398

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400001	1	Reservoir, Plastic, 4.5" x 13"
2	70400004	1	Plug, vent, 3/8" NPT
3	70400002	1	Clamp, Hose Worm Gear (M-Series)
4	70400482	2	Screw, Flat Head Cap, 3/8"-16 x 1-1/4"
5	70400481	1	Bracket, Plate Mount
6	70091728	2	Spacer
7	70091730	1	Screen, Filter (Suction)
8	70091731	1	Tube, Filter Suction, 3/8" NPT 90°
9	70092328	1	Tube, Return 90°
10	70400478	1	Pump Assembly, Gear Code 03
11	70091717	1	"O" Ring
12	70400006	1	Seal
13	70091718	1	Parts Kit, Ball Check
14	70092355	1	Parts Kit, Relief Valve
15	70092359	1	Motor, Electric 12 VDC
16	70091721	1	Bearing, Base Motor
17	70092304	1	Switch
18	70092307	1	Parts Kit, Plunger
19	70092402	1	Cable with Lugs
20	70400479	1	Adapter
21	70400483	1	Screw
22	70400484	1	Washer
23	70400480	1	Bracket Assembly

Solenoid Operated Pump Unit



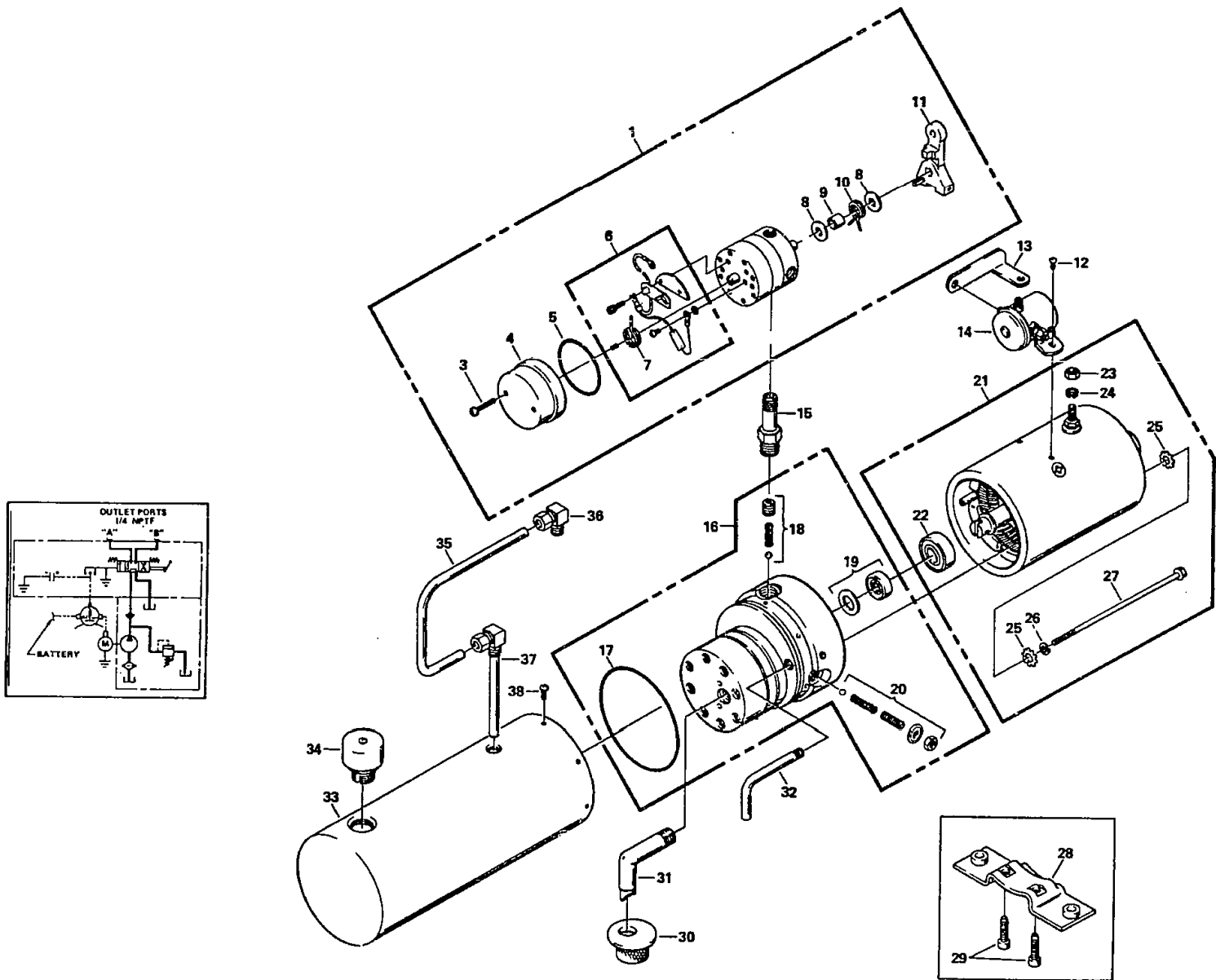
**WALTCO**  
**TRUCK EQUIPMENT CO.**  
30195000, 33095001,  
33595001

REVISED: 12/1/03  
E.O. 5221  
REV. 04  
**PM-111B**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70392900	1	Motor
2	70091618	1	Coupling
3	75089822	1	Starter Solenoid
5	70091260	1	Terminal Cable Assembly
10	70091274	1	End Head
11	70091291	2	Plug
12	70091629	1	Shaft Seal
20	70091615	1	Pump Assembly Kit
29	70091758	1	Suction Cover Kit
30	70091262	1	Reservoir
31	70091265	4	Screw
32	70091270	1	Breather Cap
33	75000027	1	“O” Ring
34	70091493	1	Return Tube
40	70091249	1	Ball
	70091250	1	Spring
41	70091295	1	Check Cap Assembly
42	70091294	1	Relief Cap Assembly
50	70091395	1	Check Cap Assembly
52	70091696	1	Spring Retainer
53	70091281	1	Spring & Ball Assembly
59			Valve Seal Kit
	75000025	1	“O” Ring
	75000026	2	“O” Ring
	75000036	2	“O” Ring
	70091297*	2	Seal Ring
61	80000722	1	Release Cap Stem Assembly Kit
62	70091358*	1	Solenoid Bracket
63	70091352*	6	Screw
64	70091631	1	Solenoid
65	70091353*	1	Cover

\* Items included in switch kit 70091679

20295000 MANUALLY OPERATED POWER UP AND DOWN PUMP UNIT



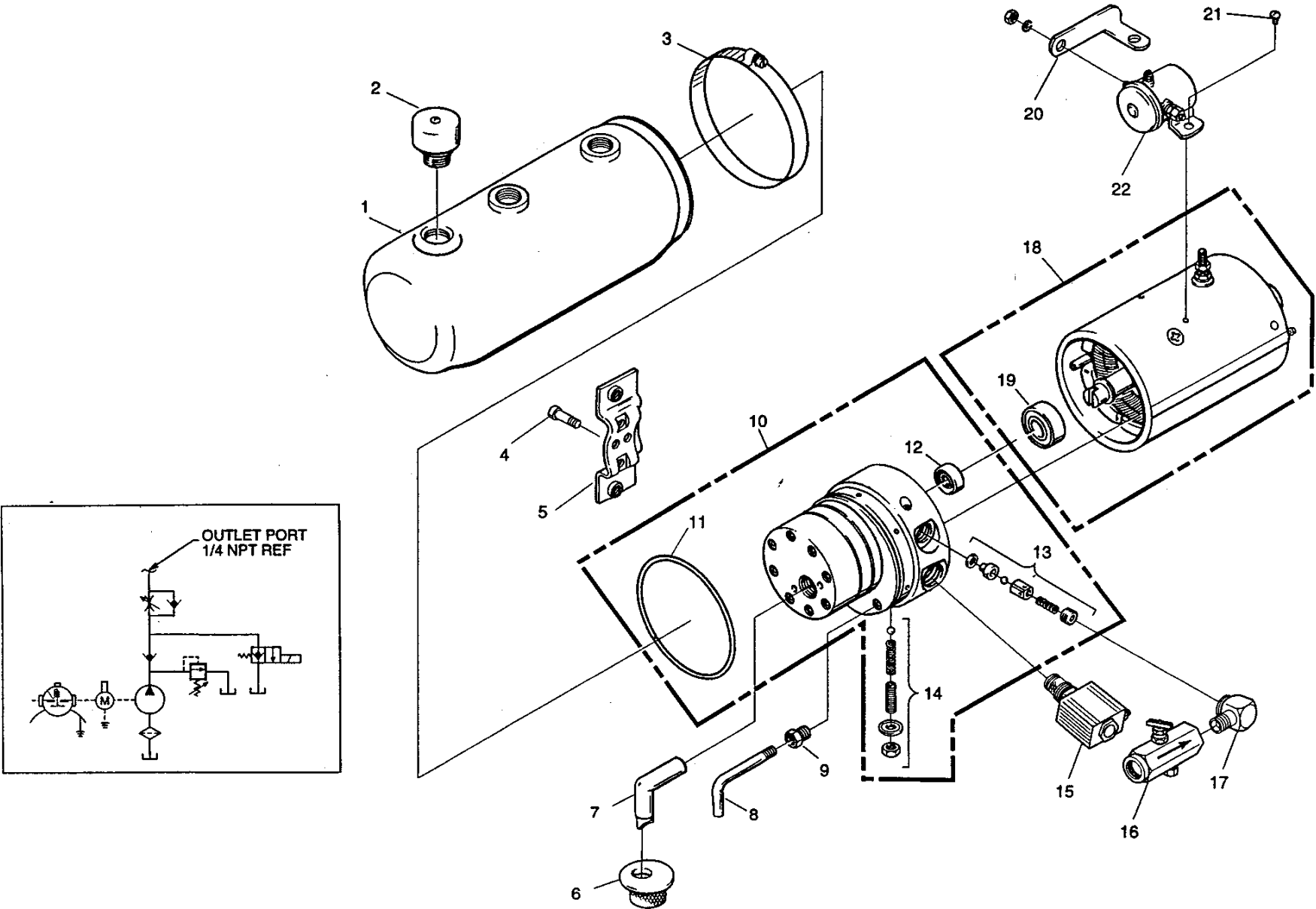
WALTCO  
TRUCK EQUIPMENT CO.  
20295000

REVISED: 3-92

PM-247A

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70121000	1	Valve Assembly Complete
3	70091703	2	#10-24 x 1-1/8" Truss Screw
4	70091704	1	Cover (Condenser, Contact)
5	70091705	1	"O" Ring 2.3125 x 2.5 x .0937
6	70091706	1	Parts Kit (Electrical)
7	70091707	1	Contact Spring
8	70091708	2	5/16" Flat Washer
9	70091709	1	Bushing (Torsion Spring)
10	70091710	1	Torsion Spring
11	70091711	1	Handle Assembly
12	70091712	2	#10-32 x 1/4" Round Head Screw
13	70091713	1	Switch Mounting Bracket
14	70091714	1	Solenoid Switch
15	70091715	1	Adapter (Pump/Valve)
16	70091716	1	Pump Assembly
17	70091717	1	"O" Ring 3.625 x 3.875 x .125
18	70091718	1	Parts Kit (Check Valve, Main)
19	70091719	1	Seal & Gasket
20	70092355	1	Relief Valve
21	70091739	1	Motor Only
22	70091721	1	Bearing (Base, Motor)
23	70091722	1	5/16"-24 hex Nut
24	70091723	1	5/16" Lock Washer
25	70091724	4	1/4" Star Washer
26	70091725	2	1/4" Lock Washer
27	70091726	2	1/4"-20 x 6-1/2" Hex Screw
28	70092371	1	Bracket (Mount Plate)
29	70092357	2	5/16"-18 x 1-1/16" Screw
30	70091730	1	Filter
31	70091731	1	3/8" NPT 90° Tube
32	70091732	1	1/8" NPT Return Tube
33	70091733	1	Reservoir
34	70091734	1	Breather
35	70091735	1	Return Tube (Reservoir)
36	70091736	1	90° 3/8" x 1/4" NPT Elbow Assembly
37	70091737	1	90° Elbow Assembly
38	70091738	6	#10-24 x 3/8" Thread Forming Screw

70400000 SOLENOID OPERATED



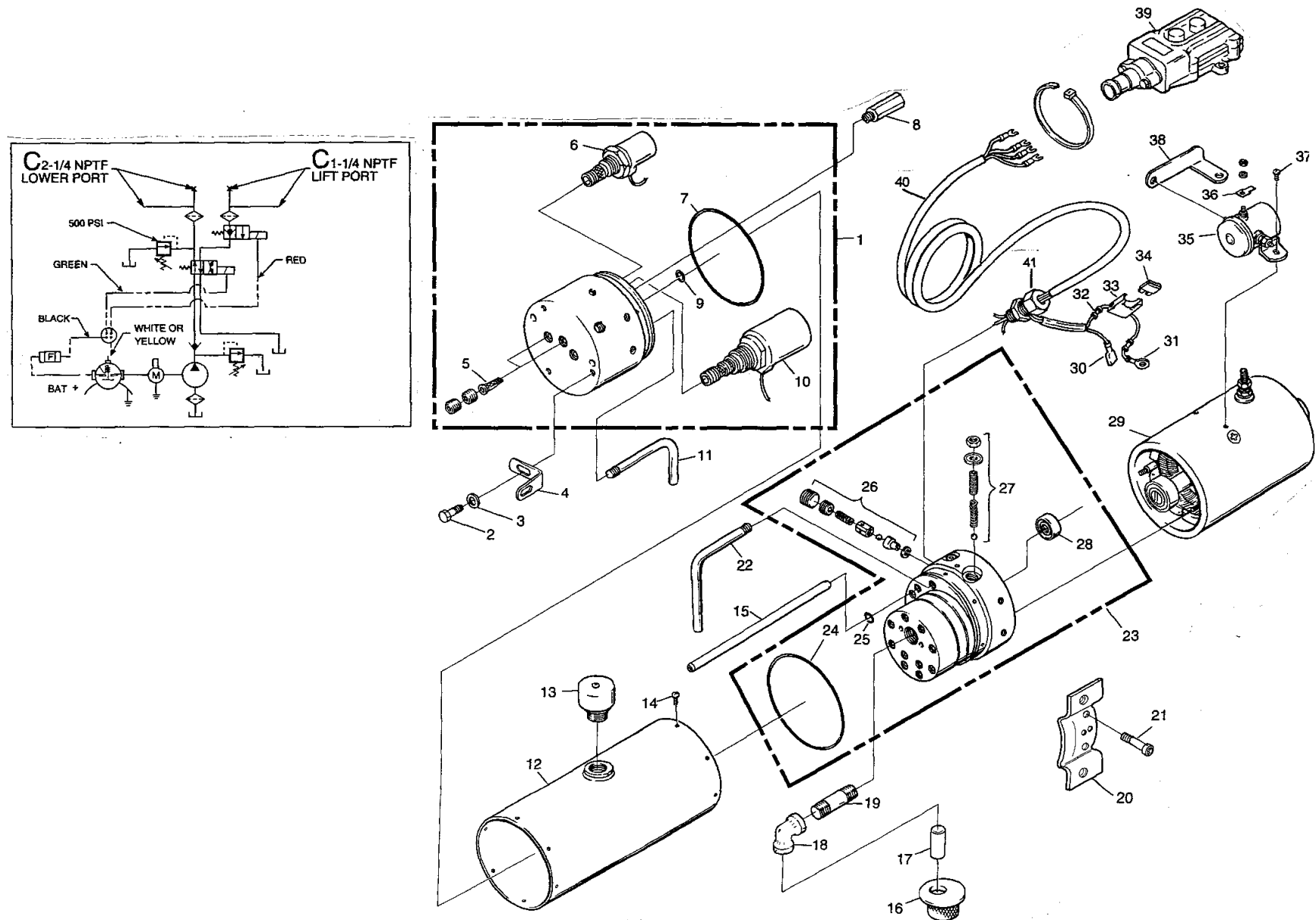
WALTCO  
TRUCK EQUIPMENT CO.  
70400000

REVISED: 12-20-96  
E.O. 3027  
REV. 02

PM-352

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400001	1	Reservoir, Plastic
2	70400004	1	Breather
3	70400002	1	Clamp
4	70092357	2	Screw
5	70400008	1	Bracket
6	70091730	1	Screen
7	70091731	1	Tube
8	70091732	1	Tube
9	70092504	1	Bushing
10	70400005	1	Pump Assembly Kit (includes items 11-14)
11	70091717	1	"O" Ring
12	70400006	1	Seal
13	70400007	1	Valve Assembly
14	70092355	1	Relief Valve Assembly
15	70400003	1	Valve
16	70189860	1	Valve
17	75082611	1	Elbow
18	70092312	1	Motor Kit (includes item 19)
19	70091721	1	Bearing
20	70091713	1	Strap
21	70091712	2	Screw
22	75089822	1	Solenoid

70400025 POWER DOWN



WALTCO  
TRUCK EQUIPMENT CO.  
70400025

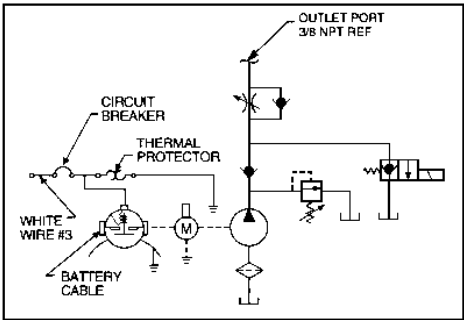
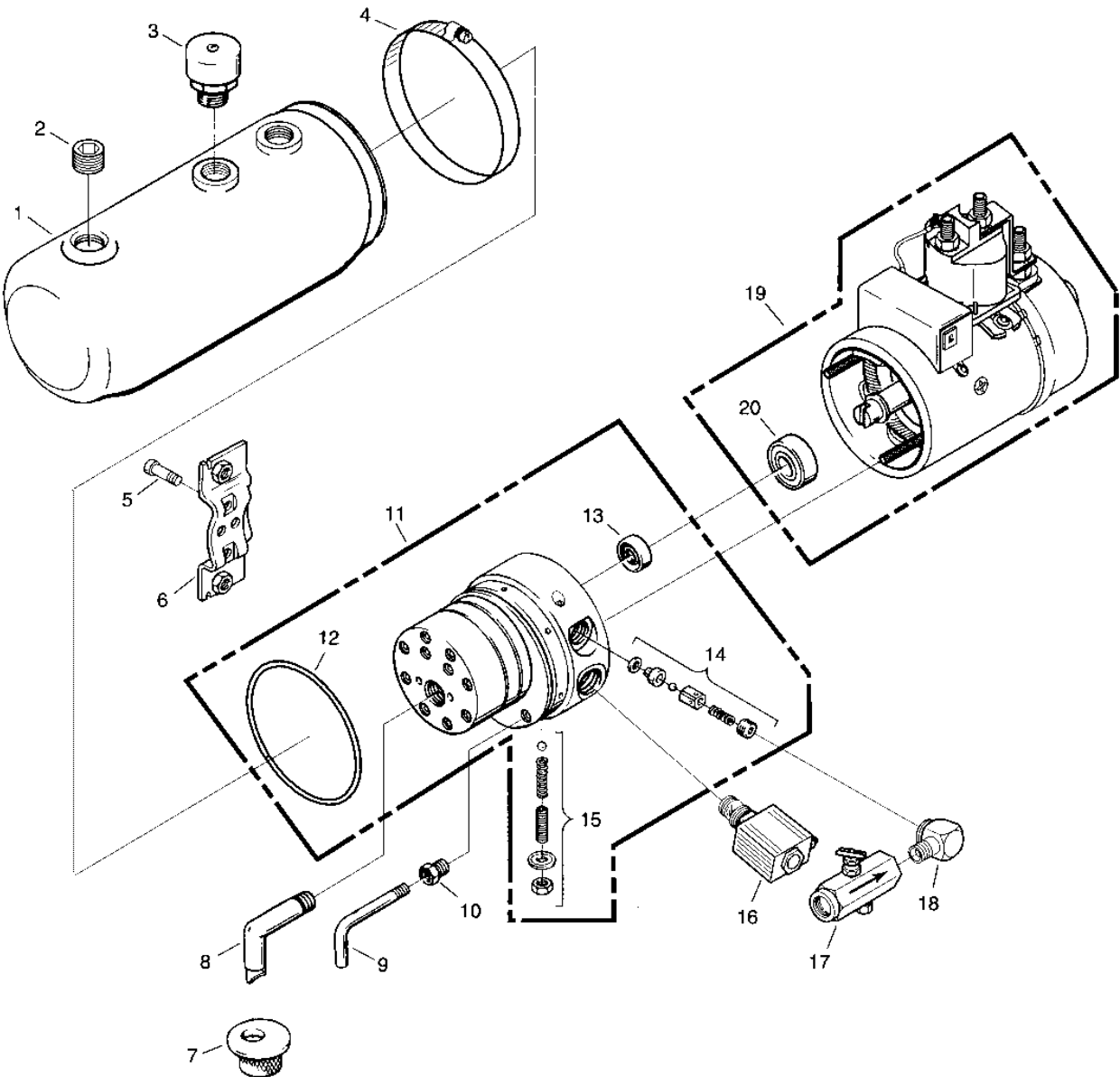
REVISED: 7-14-95

PM-354

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400048	1	Valve Assembly Kit (Includes items 5, 6, 7, 9, 10)
2	70400034	1	Screw
3	70400028	1	Washer
4	70400029	1	Bracket
5	70400030	2	Filter
6	70092418	1	Valve, 2 Way
7	70091717	1	"O" Ring
8	70400031	1	Relief Valve Assembly
9	70400032	1	"O" Ring
10	70400033	1	Valve, 4 Way
11	70091732	1	Tube
12	70400027	1	Reservoir
13	70400004	1	Breather
14	70091738	12	Screw
15	70400036	1	Tube
16	70091730	1	Screen
17	70400037	1	Tube
18	70400038	1	Elbow
19	70400039	1	Nipple
20	70400008	1	Bracket
21	70092357	2	Screw
22	70092328	1	Tube
23	70400041	1	Pump Assembly Kit (Includes items 24-28)
24	70091717	1	"O" Ring
25	70400042	1	"O" Ring
26	70400007	1	Valve Assembly
27	70092355	1	Relief Valve Assembly
28	70400006	1	Seal
29	70091739	1	Motor
30	70400043	1	Terminal
31	70400044	1	Terminal
32	70400045	1	Terminal
33	75089850	1	Housing
34	75089852	1	Fuse
35	75089822	1	Solenoid
36	70400035	1	Terminal
37	70091712	2	Screw
38	70091713	1	Strap

ITEM	PART NUMBER	QTY	DESCRIPTION
39	75089798	1	Control Box
40	70400046	1	Cord Assembly
41	70400047	1	Fitting Assembly

70400700 GRAVITY DOWN THERMALPAK®



WALTCO  
TRUCK EQUIPMENT CO.

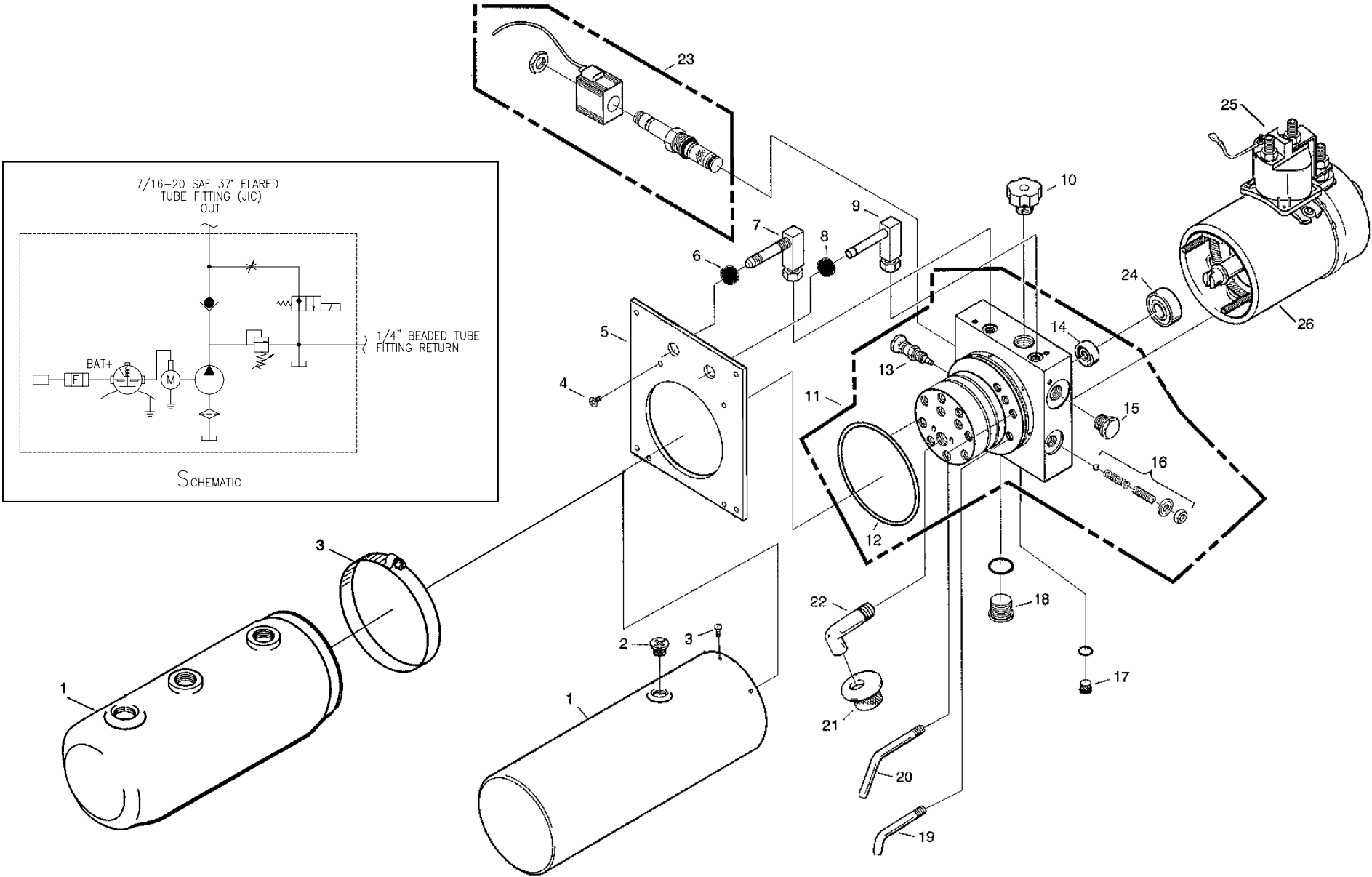
REVISED: 10-08-99  
E.O. 3659  
REV. 01

PM-510

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400010	1	Reservoir
2	70091291	1	Plug
3	70400004	1	Plug, Vent
4	70400002	1	Clamp
5	70400011	2	Screw, 3/8-16 x 1", Flat Head Cap
6	70400008	1	Bracket, Plate Mount
7	70091730	1	Screen, Filter (Suction)
8	70091731	1	Tube, Filter suction
9	70091732	1	Tube, Return
10	70092504	1	Bushing
11	70400005	1	Pump Assembly
12	70091717	1	O-ring
13	70400006	1	Seal
14	70400007	1	Valve Assembly
15	70092355	1	Relief Valve Assembly
16	70400003	1	Valve
17	70189860	1	Valve, Adjustable Flow Control
18	70400009	1	Elbow, 90°
19	70400851	1	Motor Kit (includes Item 20)
20	70091721	1	Bearing



70401400, 70401700, 70401900 GRAVITY DOWN ELECTROPAK®



**WALTCO**  
TRUCK EQUIPMENT CO.  
F, C, E, EZL

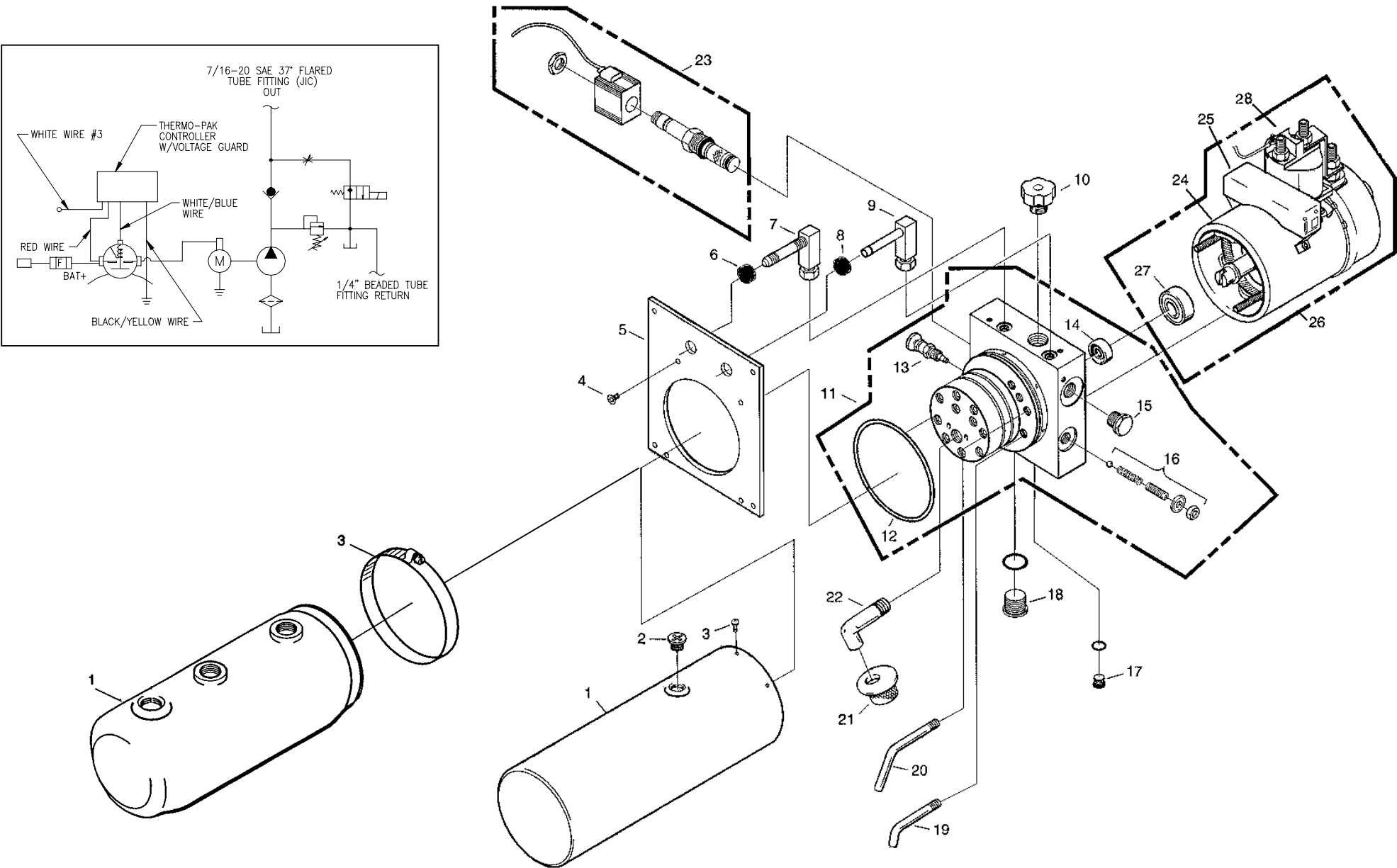
REVISED: 4-30-04  
E.O. 5140  
REV. 03

**PM-555**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401456 <sup>B</sup>	1	Reservoir (Metal)
	70400001 <sup>C</sup>	1	Reservoir (Plastic)
2	70400055	1	Breather Plug
3	70091738 <sup>B</sup>	6	Screw, 10-24 x 3/8" lg. (For Metal Reservoir)
	70400002 <sup>C</sup>	1	Clamp (For Plastic Reservoir)
4	75086000 <sup>A</sup>	4	Screw, socket flat head cap, 1/4-20
5	70401407 <sup>A</sup>	1	Plate
6	70401408	1	Grommet
7	70401435	1	Fitting, male 7/16" SAE 37° Flare
8	70401409	1	Grommet
9	70401430	1	Fitting, barbed
10	70091734	1	Breather
11	70401410	1	Pump Assembly
12	70091717	1	O-ring
13	70401411	1	Flow Control Valve
14	70400006	1	Seal
15	70401412	1	Sight Glass
16	70401413	1	Relief Valve
17	70401415	1	Drain Plug
18	70401414	1	Plug, Check valve
19	70401406	1	Return Tube
20	70401405	1	Return Tube
21	70091730	1	Filter
22	70091731	1	Suction Tube
23	70401476	1	Valve, 2-way/2pos
24	70091721	1	Bearing
25	75089831	1	Starter Solenoid
26	70092312	1	Motor

<sup>A</sup> Used on 70401400 only.  
<sup>B</sup> Used on 70401400 and 70401700 only.  
<sup>C</sup> Used on 70401900 only.

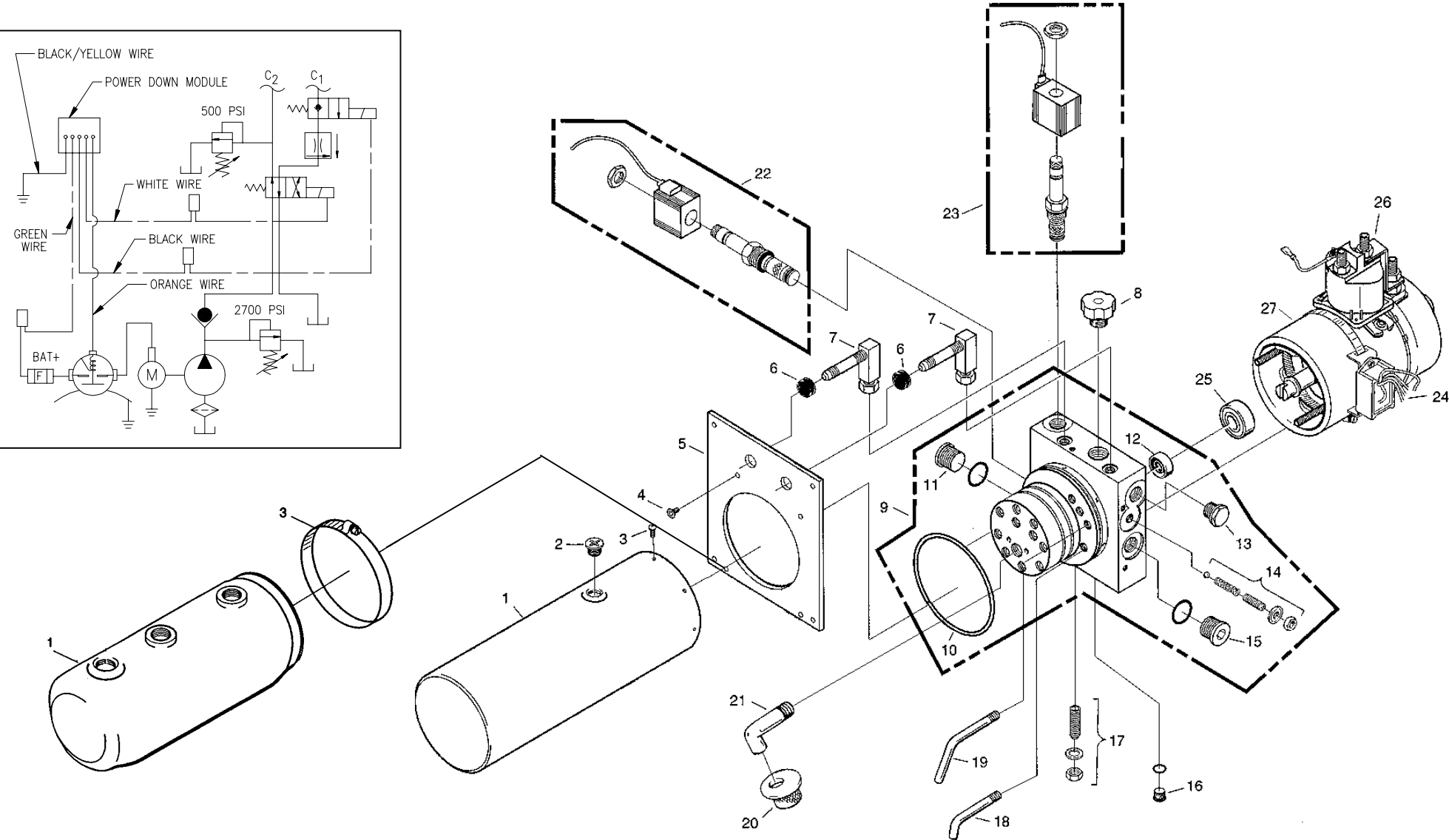
70401450, 70401750, 70401950 GRAVITY DOWN THERMALPAK® WITH VOLTAGE GUARD™



ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401456 <sup>B</sup>	1	Reservoir (Metal)
	70400001 <sup>C</sup>	1	Reservoir (Plastic)
2	70400055	1	Breather Plug
3	70091738 <sup>B</sup>	6	Screw, 10-24 x 3/8" lg. (For Metal Reservoir)
	70400002 <sup>C</sup>	1	Clamp (For Plastic Reservoir)
4	75086000 <sup>A</sup>	4	Screw, socket flat head cap, 1/4-20
5	70401407 <sup>A</sup>	1	Plate
6	70401408	1	Grommet
7	70401435	1	Fitting, male 7/16" SAE 37° Flare
8	70401409	1	Grommet
9	70401430	1	Fitting, barbed
10	70091734	1	Breather
11	70401410	1	Pump Assembly
12	70091717	1	O-ring
13	70401411	1	Flow Control Valve
14	70400006	1	Seal
15	70401412	1	Sight Glass
16	70401413	1	Relief Valve
17	70401415	1	Drain Plug
18	70401414	1	Plug, Check valve
19	70401406	1	Return Tube
20	70401405	1	Return Tube
21	70091730	1	Filter
22	70091731	1	Suction Tube
23	70401476	1	Valve, 2-way/2pos
24	70092312	1	Motor
25	10099300	1	Thermalpak® with Voltage Guard™
26	70400854	1	Motor/Solenoid/Controller
27	70091721	1	Bearing
28	75089831	1	Starter Solenoid

<sup>A</sup> Used on 70401450 only.  
<sup>B</sup> Used on 70401450 and 70401750 only.  
<sup>C</sup> Used on 70401950 only.

70401425, 70401725, 70401925 POWER DOWN ELECTROPAK®



**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**F, C, E, EZL**

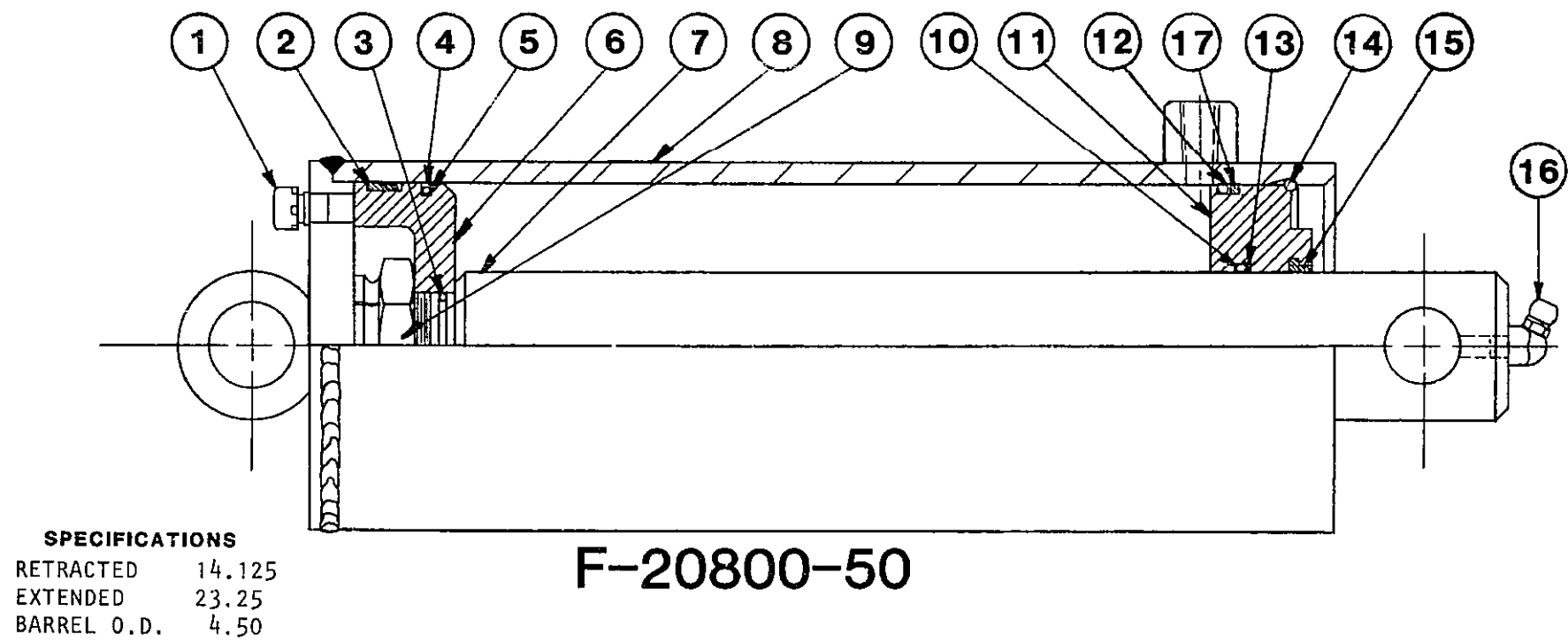
REVISED: 4-30-04  
E.O. 5140  
REV. 03

**PM-556**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401456 <sup>B</sup>	1	Reservoir (Metal)
	70400001 <sup>C</sup>	1	Reservoir (Plastic)
2	70400055	1	Breather Plug
3	70091738 <sup>B</sup>	6	Screw, 10-24 x 3/8" lg. (For Metal Reservoir)
	70400002 <sup>C</sup>	1	Clamp (For Plastic Reservoir)
4	75086000 <sup>A</sup>	4	Screw, socket flat head cap, 1/4-20
5	70401407 <sup>A</sup>	1	Plate
6	70401408	1	Grommet
7	70401435	1	Fitting, male 7/16" SAE 37° Flare
8	70091734	1	Breather
9	70401419	1	Pump Assembly
10	70091717	1	O-ring
11	70401414	1	Plug, Check valve
12	70400006	1	Seal
13	70401412	1	Sight Glass
14	70401413	1	Relief Valve
15	70092400	1	Plug
16	70401415	1	Drain Plug
17	70401413	1	Relief Valve
18	70401406	1	Return Tube
19	70401405	1	Return Tube
20	70091730	1	Filter
21	70091731	1	Suction Tube
22	70401477	1	Valve, 4-way/2pos
23	70401476	1	Valve, 2-way/2pos
24	10099303	1	Power Down Module
25	70091721	1	Bearing
26	75089831	1	Starter Solenoid
27	70092312	1	Motor

<sup>A</sup> Used on 70401425 only.  
<sup>B</sup> Used on 70401425 and 70401725 only.  
<sup>C</sup> Used on 70401925 only.





WALTCO  
TRUCK EQUIPMENT CO.  
20280050

REVISED: 1-89

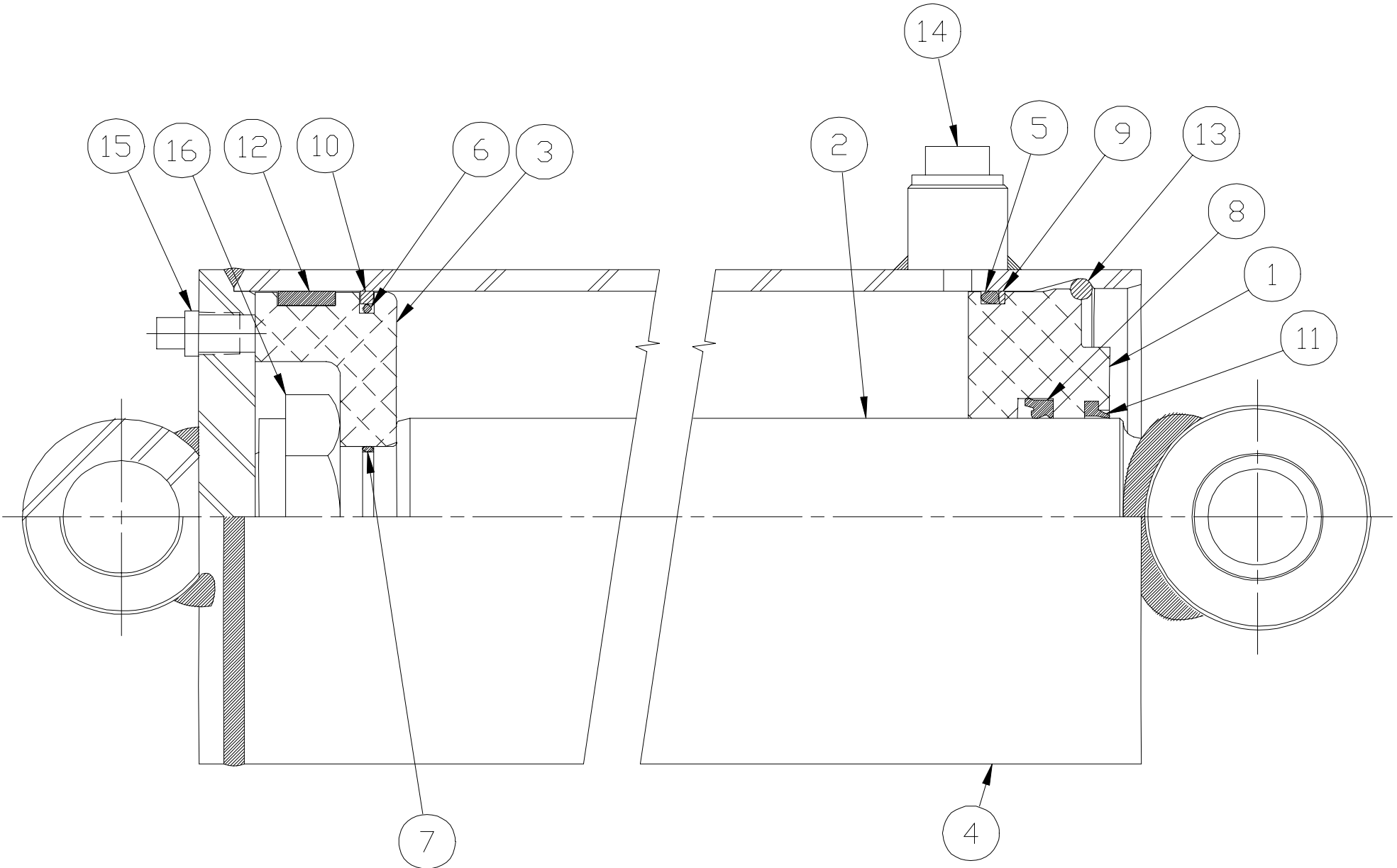
PM-211

ITEM	PART NUMBER	QTY	DESCRIPTION
1	75089310	1	Breather
2	70270502*	1	Wear Ring
3	75000031*	1	“O” Ring
4	70270620*	1	Seal Ring
5	75000043*	1	“O” Ring
6	20281550	1	Piston
7	20281150	1	Shaft
8	20282050	1	Barrel
9	75085191	1	Lock Nut
10	75000012*	1	“O” Ring
11	20280250	1	Nose Bearing
12	75000009*	1	“O” Ring
13	75000505*	1	Back-up Ring
14	22282950	1	Retaining Ring
15	70270460*	1	Rod Wiper
16	75089305	1	Grease Fitting, 65°
17	75000509*	1	Back-up Ring
18	20280095	1	Repair Kit (Not Shown)

\* Indicates parts included in repair kit

NOTE: Refer to cylinder serial number located on the cylinder barrel when ordering parts.

Example: 11 20201-XXXXXX



WALTCO  
TRUCK EQUIPMENT CO.  
20280010

REVISED: 2-25-00  
E.O. 3443A  
REV. 01

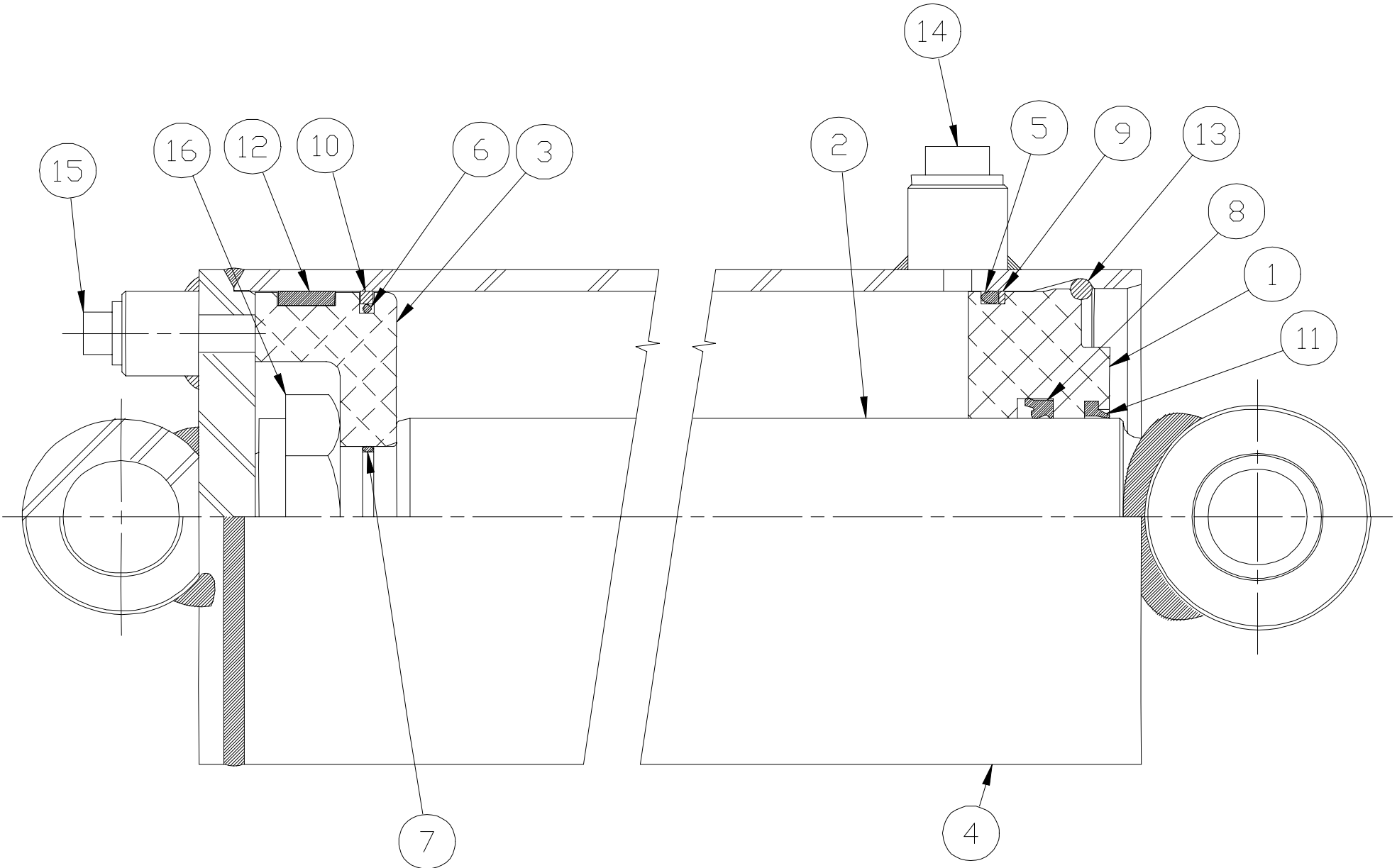
PM-263

ITEM	PART NUMBER	QTY	DESCRIPTION
1	11202-0200	1	Gland
2	11391-1000	1	Rod Assembly
3	11202-1500	1	Piston
4	11202-2000	1	Barrel Assembly
5	-----*	1	"O" Ring
6	-----*	1	"O" Ring
7	-----*	1	"O" Ring
8	-----*	1	Rod Seal
9	-----*	1	Backup Ring
10	-----*	1	Piston Seal
11	-----*	1	Rod Wiper
12	-----*	1	Wear ring
13	4050	1	Retaining Ring
14	4102	1	Caplug
15	4135	1	Caplug
16	4408	1	Locknut

\* Indicates parts included in repair kit number 11391-9500.

NOTE: Refer to cylinder serial number located on the cylinder barrel when ordering parts.

Example: 11391-XXXXX



WALTCO  
TRUCK EQUIPMENT CO.  
20280020

REVISED: 2-25-00  
E.O. 3443A  
REV. 01  
**PM-264**

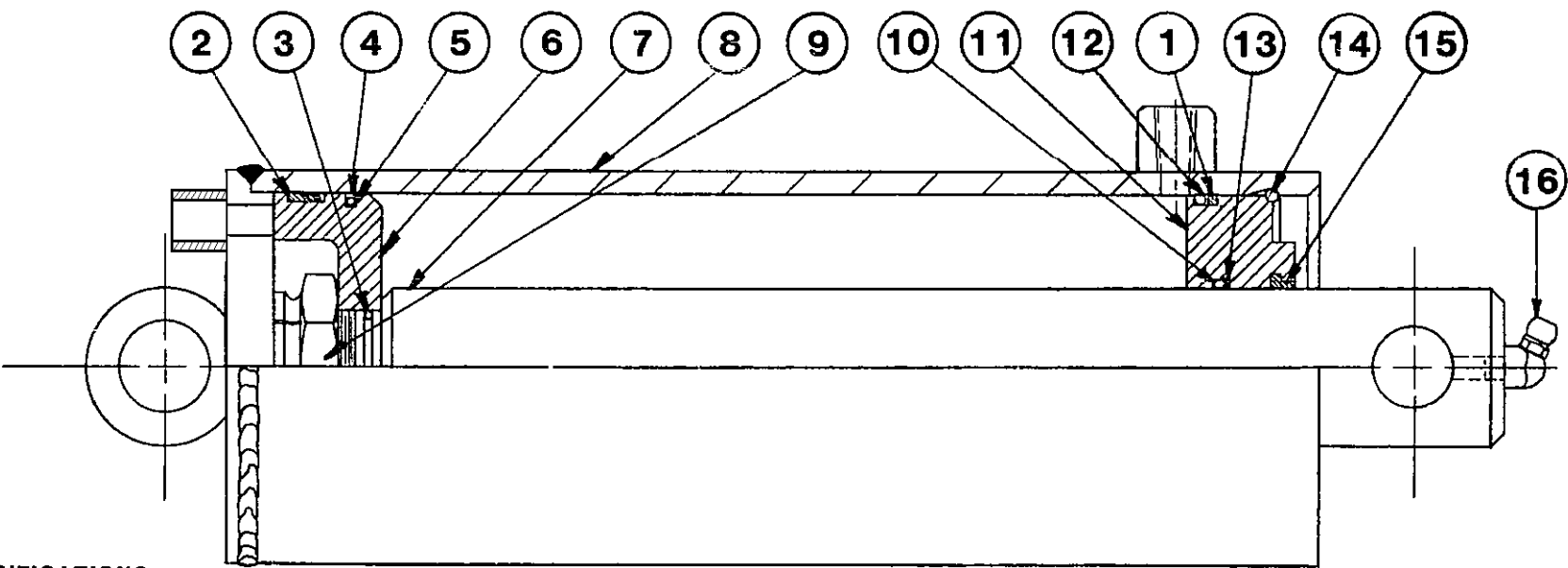
ITEM	PART NUMBER	QTY	DESCRIPTION
1	11202-0200	1	Gland
2	11391-1000	1	Rod Assembly
3	11202-1500	1	Piston
4	11290-2000	1	Barrel Assembly
5	-----*	1	"O" Ring
6	-----*	1	"O" Ring
7	-----*	1	"O" Ring
8	-----*	1	Rod Seal
9	-----*	1	Backup Ring
10	-----*	1	Piston Seal
11	-----*	1	Rod Wiper
12	-----*	1	Wear ring
13	4050	1	Retaining Ring
14	4102	1	Caplug
15	4179	1	Caplug
16	4408	1	Locknut

\* Indicates parts included in repair kit number 11391-9500.

NOTE: Refer to cylinder serial number located on the cylinder barrel when ordering parts.

Example: 11393-XXXXX

20280090



**SPECIFICATIONS**  
RETRACTED     14.125  
EXTENDED     23.25  
BARREL O.D.     4.50

20280090

WALTCO  
TRUCK EQUIPMENT CO.  
20280090

REVISED:     12-1-03  
E.O.     5221  
REV.     01

PM-585

ITEM	PART NUMBER	QTY	DESCRIPTION
1	75000509*	1	Back-up Ring
2	70270502*	1	Wear Ring
3	75000031*	1	“O” Ring
4	70270620*	1	Seal Ring
5	75000043*	1	“O” Ring
6	20281550	1	Piston
7	20281150	1	Shaft
8	20289001	1	Barrel
9	75085191	1	Lock Nut
10	75000012*	1	“O” Ring
11	20280250	1	Nose Bearing
12	75000009*	1	“O” Ring
13	75000505*	1	Back-up Ring
14	22282950	1	Retaining Ring
15	70270460*	1	Rod Wiper
16	75089305	1	Grease Fitting, 65°
17	20280095	1	Repair Kit (Not Shown)

\* Indicates parts included in repair kit

NOTE: Refer to cylinder serial number located on the cylinder barrel when ordering parts.

Example: 11 20201-XXXXXX



# WALTCO TECH TIPS

## E Series

<b>TT960004</b>	Two piece platforms with 12" folding ramps will have the 90 degree ramp lock installed as standard equipment.
<b>TT960005</b>	Power Down and Dual Control Power Down Electropak® will become standard equipment.
<b>TT960006</b>	Conversion kits will be available to convert any unit and controls to Electropak®
<b>TT960007</b>	The Heavy duty, "Super duty" dock bumper and rubber bumper kits will be available.
<b>TT960008</b>	Release information for the LPF-30 and 40 series liftgate.
<b>TT960009</b>	Release information for the E-25RM series liftgate.
<b>TT960012</b>	Some EMT (Externally mount Toggle) switch kits shipped out of plant incorrectly.
<b>TT970019</b>	The torsion spring for the E-Series platform has been repositioned, so that the platform is easier to fold.
<b>TT000041</b>	Correcting motor grounding problems on "Reduced Installation" Flipaways.
<b>TT000042</b>	There is an option available for those who need to relocate their hydraulic pump units.
<b>TT000046</b>	Fast filling of hydraulic reservoir, in 30 seconds or less.
<b>TT000061</b>	New remote pump mounting kit.
<b>TT000066</b>	Release information for the E-30 RM and minor change information for the E-25 RM.
<b>TT010071</b>	The latch on the pump cover for a Reduced Installation pump has been replaced with a new latch.
<b>TT010072A</b>	The seal around the pump cover on the Reduced Installation liftgates can be improved with the use of a new kit (80000745).
<b>TT010080</b>	Locking pin for pump enclosure latch that will keep the latch engaged is available..
<b>TT010081</b>	Flow control adjustment for Gravity Down Flipaway Liftgates.
<b>TT020106</b>	New hitch for E-RM liftgates.



# WALTCO TECH TIPS

## E Series

<a href="#">TT020102</a>	Commonize on Bed Extensions and release the walkramp option on E-25 and C
<a href="#">TT030122</a>	C, E, and F Pump Consolidation
<a href="#">TT030130</a>	Bed Extension consolidation-Sales
<a href="#">TT030131</a>	Bed Extension consolidation-Parts
<a href="#">TT030138</a>	Storage Instructions
<a href="#">TT030139</a>	Assembly of ring terminals on terminal posts.
<a href="#">TT030141</a>	Eliminating Power Down Cylinders
<a href="#">TT030142</a>	New 80" wide platforms with torsion bar
<a href="#">TT030143</a>	Parts for 80" wide platforms with torsion bar
<a href="#">TT030146</a>	Lubrication of Reduced Maintenance Bushings
<a href="#">TT040002</a>	New Plastic Pump reservoir for F, C, & E Series



# WALTCO TECH TIPS

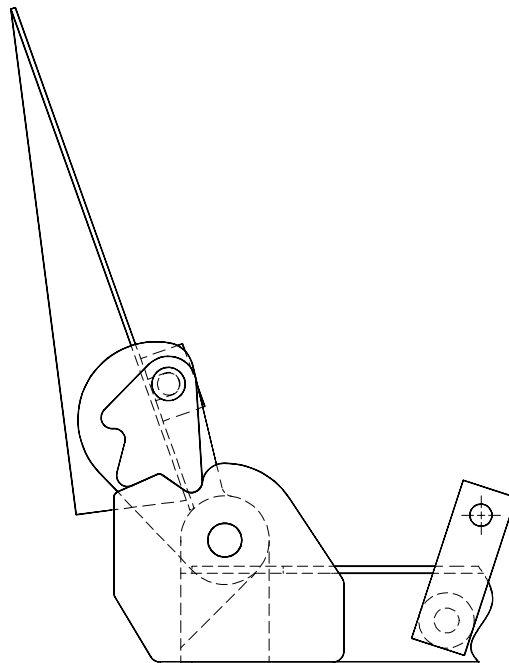
Date: 9-5-96  
No. TT960004  
Model: F, FSL, SL  
EO No. 2222

Effective 2-19-96, all two piece platforms with 12" folding ramps will have the 90 degree ramp lock installed as standard equipment.

Since the release of this ramp we have had some field problems with the ramp clearing the lift arm when the platform is folded for transit. Most of these problems are a result of the lift arms being bent inward during the welding of the lift arm tube.

We have found that when the arms are forced back to their intended position that the platform will fold properly.

Effective 10-4-96, we will be shipping the new version of the ramp lock which will avoid these potential problems. The new ramp lock will be flush to the side of the extension and will no longer pose an clearance problem. (shown below)





# **WALTCO**

## **TECH TIPS**

**Date:** 9-5-96  
**No.** TT960005  
**Model:** F, FSL, C, E  
**EO No.** 2443

Effective 2-9-96, Power down and Dual control power down ELECTROPAK will become a standard option.

The THERALPAK is currently only available on the F reduced maintenance and RF series liftgates. These units carry the full five year warranty.

The THERMALPAK power units are available on other series as specials, all orders should be approved through the SQR process before being ordered. These units would carry a five year warranty on the power unit only.



# **WALTCO TECH TIPS**

**Date:** 9-5-96  
**No.** TT960006  
**Model:** F-20 & 30, C, E,  
FSL-20, 25, 30  
**EO No.** 2718

Effective 2-2-96, Conversion kits will be available. These kits will convert any unit to the ELECTROPAK power unit and controls.

80000674 Will convert any unit and controls to our standard ELECTROPAK power unit.

80000675 Will convert any unit and controls to our standard power down ELECTROPAK power unit.



# WALTCO TECH TIPS

Date: 9-5-96  
No. TT960007  
Model: F, C, E, RF  
EO No. 2600

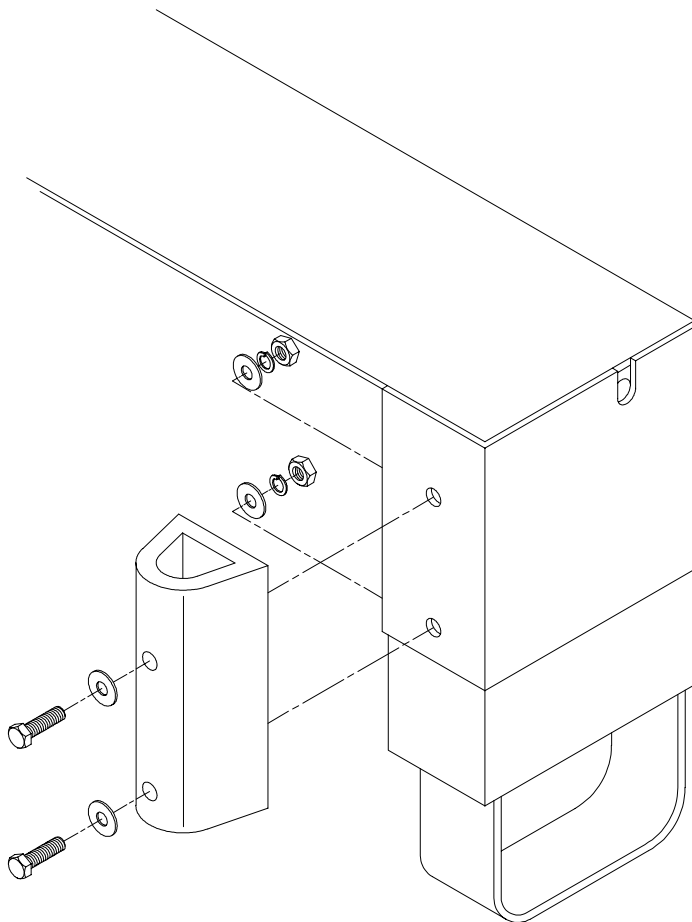
Effective 1-1-96, The Heavy duty “Super duty” dock bumper and rubber bumper kits will be available. This dock bumper was originally created for the RF series.

The new dock bumper is a heavier duty dock bumper, comparable to the Anthony dock bumper.

The following numbers can be used when ordering:

26296002 Heavy duty dock bumper kit

26297002 Rubber bumper kit





# **WALTCO**

## **TECH TIPS**

**Date:** 1-17-97  
**No.** TT960008  
**Model:** LPF  
**EO No.** 2588

### **Release Information**

We are releasing the LPF-30 & 40 series liftgate. This liftgate will be a large wedge style platform flipaway (52 x 80 and 62 x 80) with automatic tilting. The following are the design parameters for the series:

- Capacities: -3,000 and 4000 lb. capacities
- Platform Material: -Steel deck with aluminum extension and ramp to be standard
- Bed Heights: -46"-60"
- Platform Sizes: -52" & 62" deep x 80" wide wedge style
  - Optional cart stops (spring loaded and split)
- Parting Bar: -None
- Bed Extension: -10" standard
- Power Units: -THERMALPAK standard
  - Power down standard
- Operation: -Standard controls and control options
  - Max. 45 lb. closing and opening of extension
  - Max. 25 lb. closing and opening of platform assembly
  - Level ride (tilting)
- Cylinder: -Reduced maintenance type
- Dock Bumper: -Optional
- Options: -Light kit, 4 lamp (in dock bumper kit)
  - Step (in dock bumpers)
  - Any current switch option

Available for shipment mid February. Call Ohio manufacturing before giving ship date.

Please call if you have any questions.



# **WALTCO**

## **TECH TIPS**

**Date:** 4-2-97  
**No.** TT960009  
**Model:** E-25RM  
**EO No.** 3054

### **Release Information**

We have released the new E-25RM series liftgate. The new E has a wide arm design and reduced maintenance bearings as standard features.

The following are the design parameters released for the series:

- Platform Material: -Steel standard
- Models: -2500 lb. capacity
- Bed Heights: -42" loaded to 54" empty
- Platform Sizes: -36" x 72" & 84" + 6"  
-40" x 72" & 84" Wedge
- Ramp Sizes: -6 fixed ramp standard
- Parting Bar: -Roller type
- Power Units: -Standard  
-ThermalPak as an option  
-Closed hydraulic system as option
- Operation: -Standard controls and control options
- Cylinder: -Low maintenance type as option
- Options: -Power down  
-Dock bumpers; heavy duty and super duty with or without lights
- Installation Time: -Max. of 6 hours

The new E series will be ready for shipment in June.

The new E series will replace the current E & RF series liftgates.

Please call if you have any questions.



# **WALTCO**

# **TECH TIPS**

**Date:** 1-17-97  
**No.** TT960012  
**Model:** Flipaways  
**EO No.** None

We have had some EMT (Externally mount Toggle) switch kits shipped out of the plant wired incorrectly.

The Raise (white) wire and the Lower (black) wire have been incorrectly alternated.

Please be advised of the potential problem and that corrective action may be needed.

Attached is a copy of the toggle switch replacement instructions, to help in changing the wiring.

If you have any further questions please call.



## TOGGLE SWITCH REPLACEMENT INSTRUCTIONS

The following instructions are intended to be used when replacing the toggle switch on WALTCO liftgates. These instructions are specifically for units which are equipped with the control tube assembly type control system.

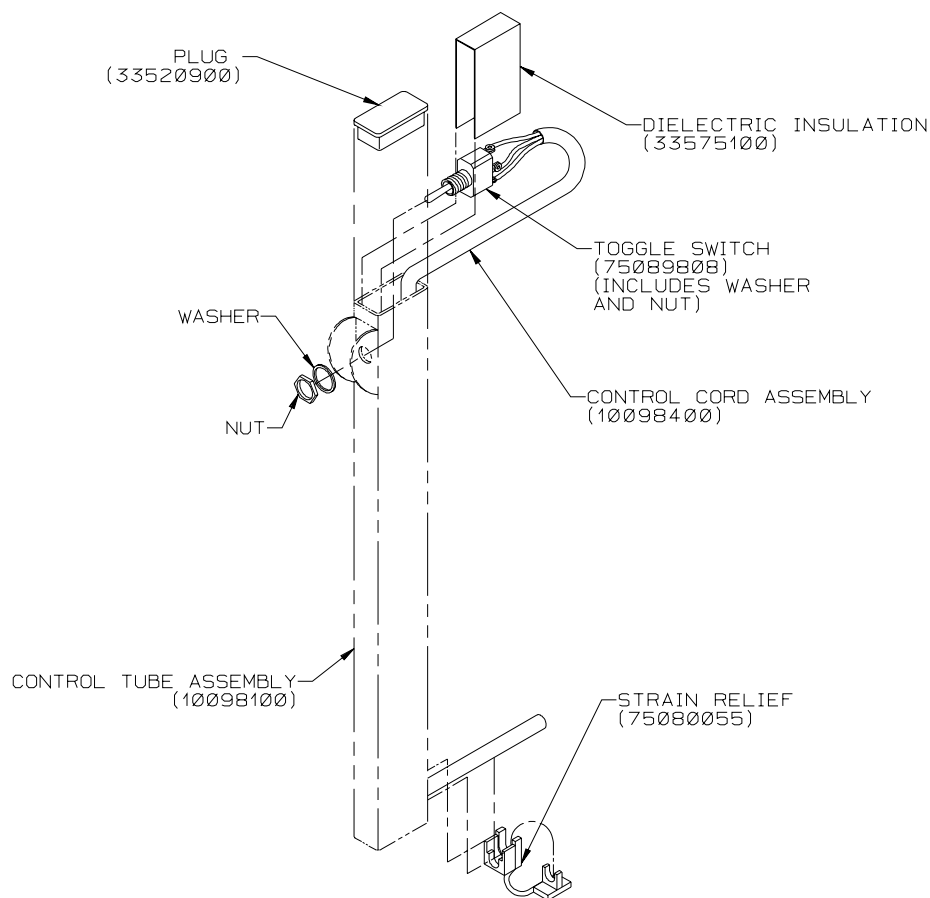
Please review this entire document before starting.

The following tools will be required to replace the toggle switch:

- Screw Driver (Small flat head type)
- Needle Nose Pliers
- 9/16" Deep Well Socket and Ratchet

The following new parts will be required to properly replace the toggle switch:

- Toggle switch (75089808); to include washer and nut.



### OHIO

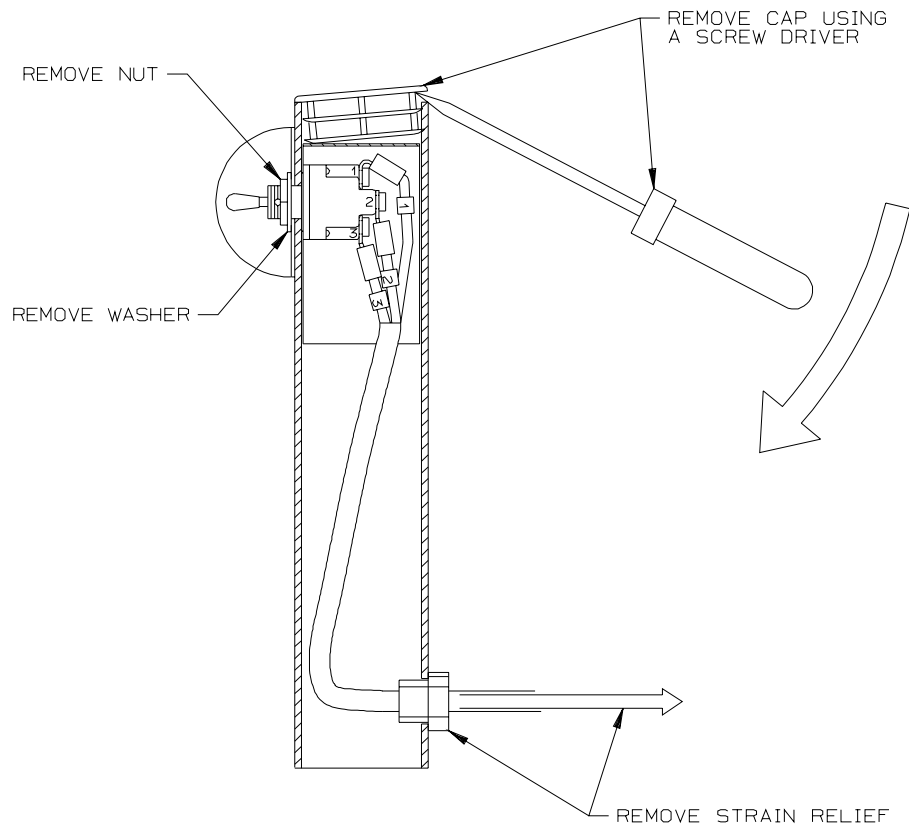
285 Northeast Avenue  
Tallmadge, OH 44278  
(330) 633-9191  
FAX (330) 633-1418

### CALIFORNIA

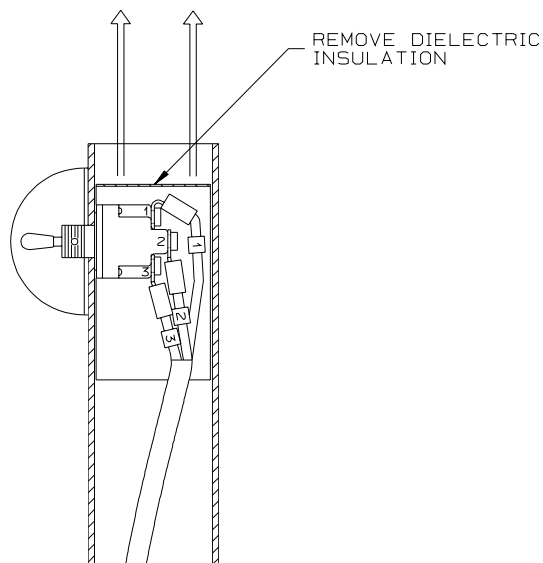
227 E. Compton Blvd.  
Gardena, CA 90248  
(213) 321-4131  
FAX (310) 538-1136

**Follow the following instructions for proper replacement of the toggle switch.**

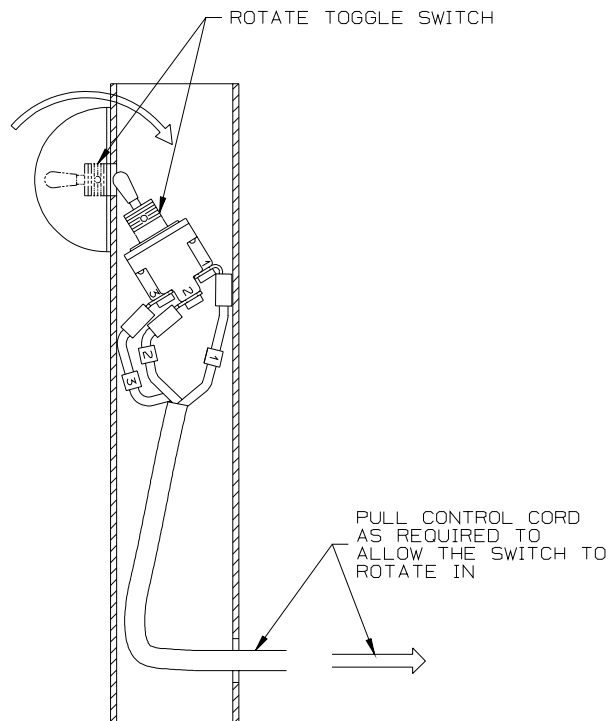
1. Disconnect the 2 ga. battery cable from the liftgate power unit. **Check to ensure that the liftgate does not operate.**
2. Remove the cap from the control tube using a screw driver.
3. Remove the strain relief using needle nose pliers.
4. Remove the nut and washer using a 9/16" deep well socket and ratchet or needle nose pliers.



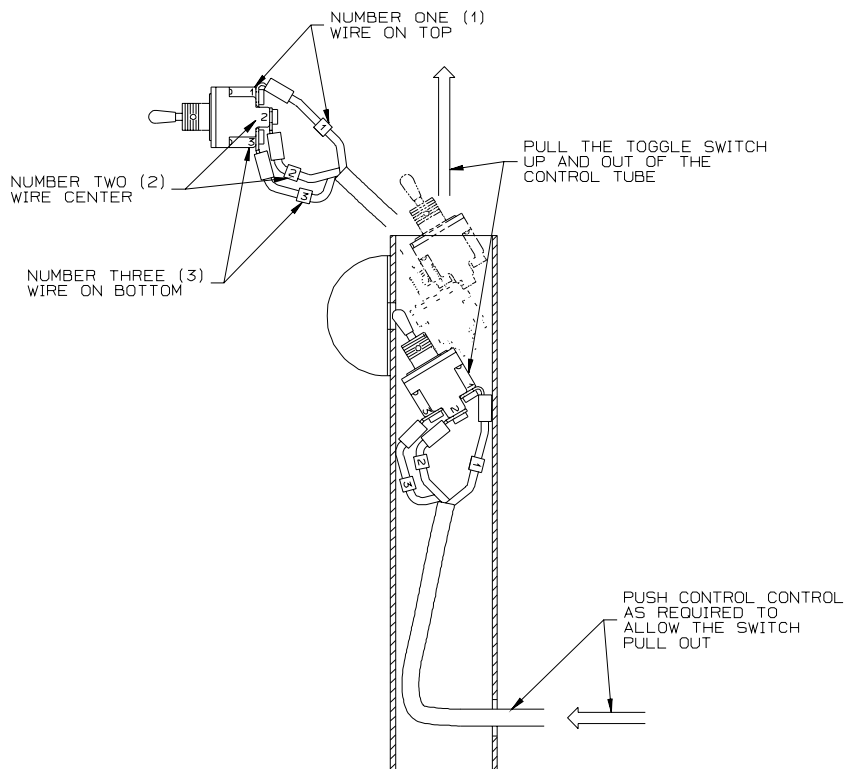
5. Remove the dielectric insulation using a screw driver and the needle nose pliers.



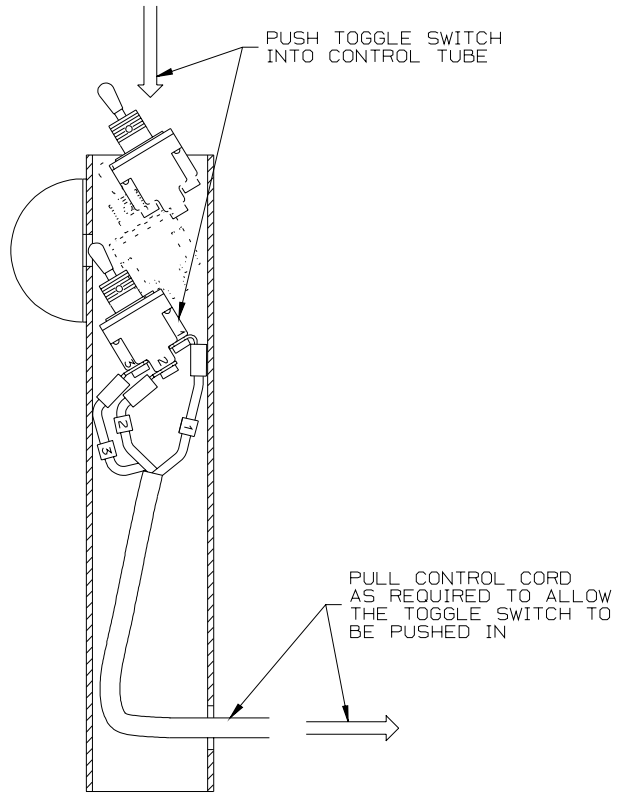
6. Rotate the switch into the control tube. It will be necessary to pull on the control cord while you rotate the toggle switch.



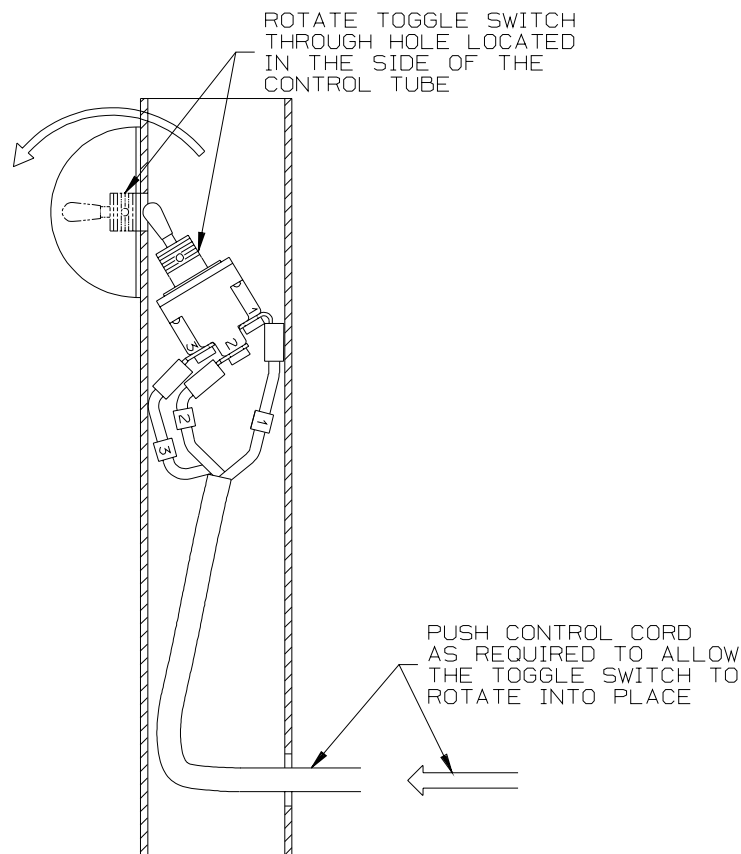
7. Pull the toggle switch up and out of the control tube. It will be necessary to push on the control cord while you pull the toggle switch.
8. Replace the toggle switch using a screw driver. Note the wire numbers and terminal relationships.



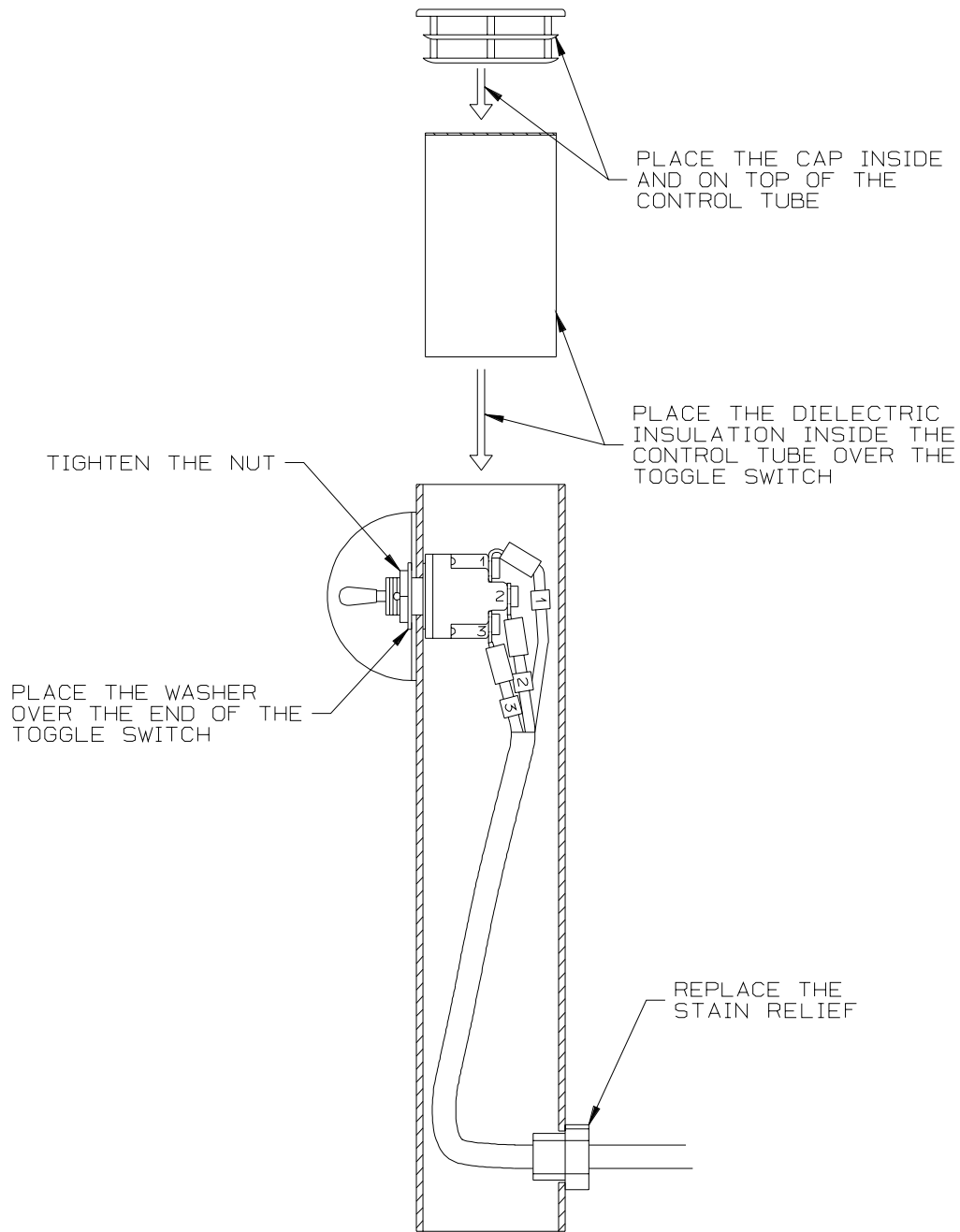
9. Push the toggle switch into the control tube. It will be necessary to pull on the control cord while you push the toggle switch



10. Rotate the toggle switch through the hole located in the side of the control tube. Lightly pull on the toggle switch through the hole using needle nose pliers while pushing on the control cord.



11. Loosely place the washer and nut on the end of the toggle switch.
  12. Place the dielectric insulation inside the control tube and over the toggle switch.
  13. Tighten the nut on the end of the toggle switch.
  14. Replace the strain relief.
  15. Replace the cap.
  16. Reattach the 2 ga. battery cable to the liftgate power unit. Check to ensure that the liftgate operates properly. See OWNER'S manual
- If you have any further question pertaining to any part of your liftgate please contact a WALTCO factory.





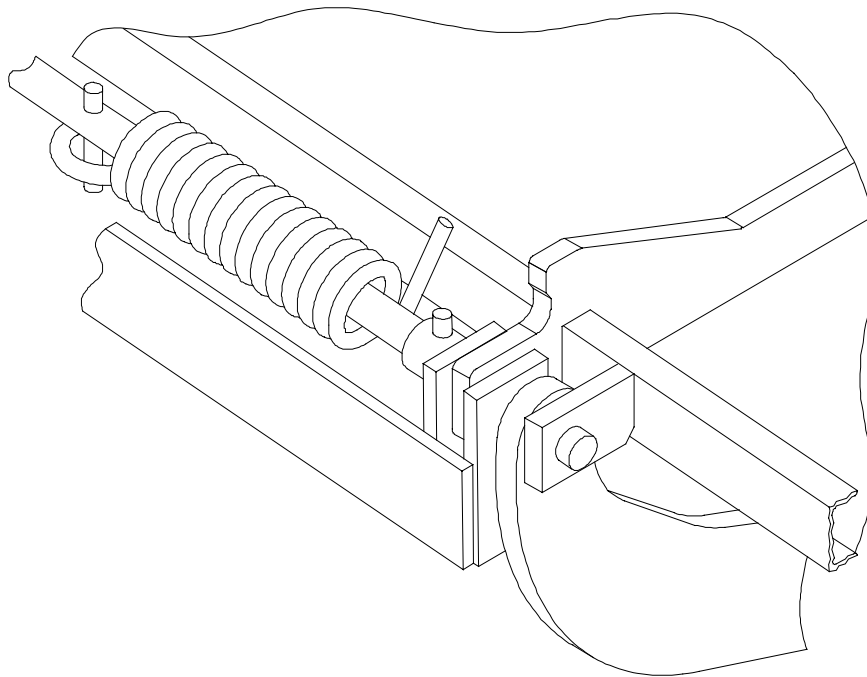
# WALTCO TECH TIPS

Date: 10-8-97  
No. TT970019  
Model: E-25 Series  
EO No. 3328

The torsion spring for the E-Series platform has been repositioned, so that the platform is easier to fold. The straight end of the spring no longer goes into a hole in the channel of the platform, but goes to the corner of the channel as shown below.

Units already in the field can be modified to make the platform fold up easier. Remove the roll pins from the hinge pin and remove the hinge pin. Position the spring as shown below and re-insert the hinge pin and coiled pins.

The spring has been life cycled to ensure adequate component life in this position.





# WALTCO TECH TIPS

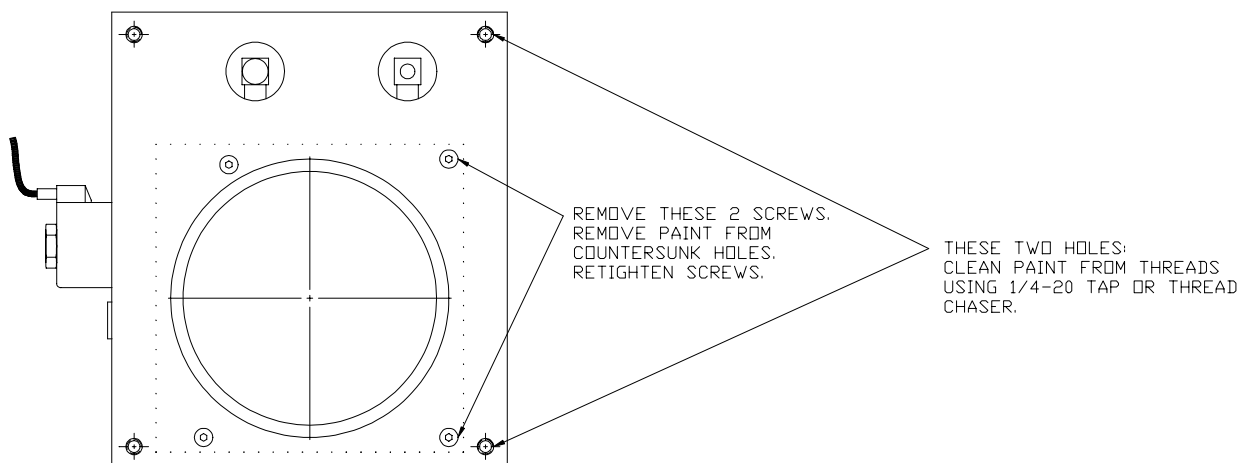
Date: 2-4-2000  
No. TT000041  
Model: C-15, C-20, E-25,  
F-20, F-30  
EO No. 3700

## CORRECTING MOTOR GROUNDING PROBLEMS ON “REDUCED INSTALLATION” FLIPAWAYS

Some of the earliest production of the Reduced Installation Flipaway liftgates may experience a “no run” situation upon initial installation. (Thermalpak™ units may also indicate low voltage with no apparent cause). This may apply to any of these gates shipped before February 4, 2000. The problem is caused by the insulating effect of paint on the small plate by which the hydraulic pump unit is mounted to the liftgate. The power units on all gates shipped starting 2-4-2000 have been reworked to eliminate this situation.

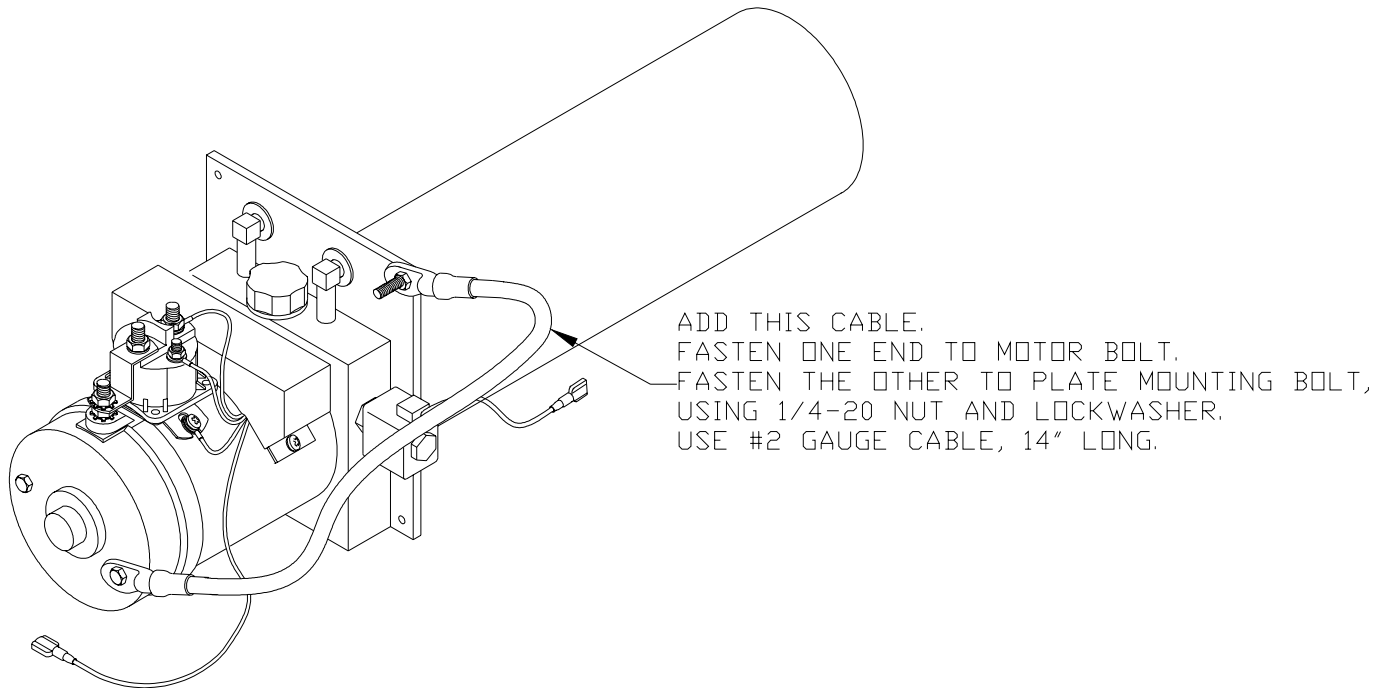
Should you experience this problem, there are two methods which may be used to cure it, as follows:

1. Remove the hydraulic and return hoses at the pump end.  
Remove the four screws that fasten the pump unit to the liftgate and remove the assembly from its bracket. Then, looking from the reservoir end:



Remount pump unit and check for proper operation.

2. Alternatively, a grounding cable or strap may be added as shown below:



**NOTICE:**

Be sure to remove only the bolt on the **RIGHT HAND** side of the motor cap, as shown, when attaching ground cable. Otherwise, motor will have to be completely removed and reassembled.

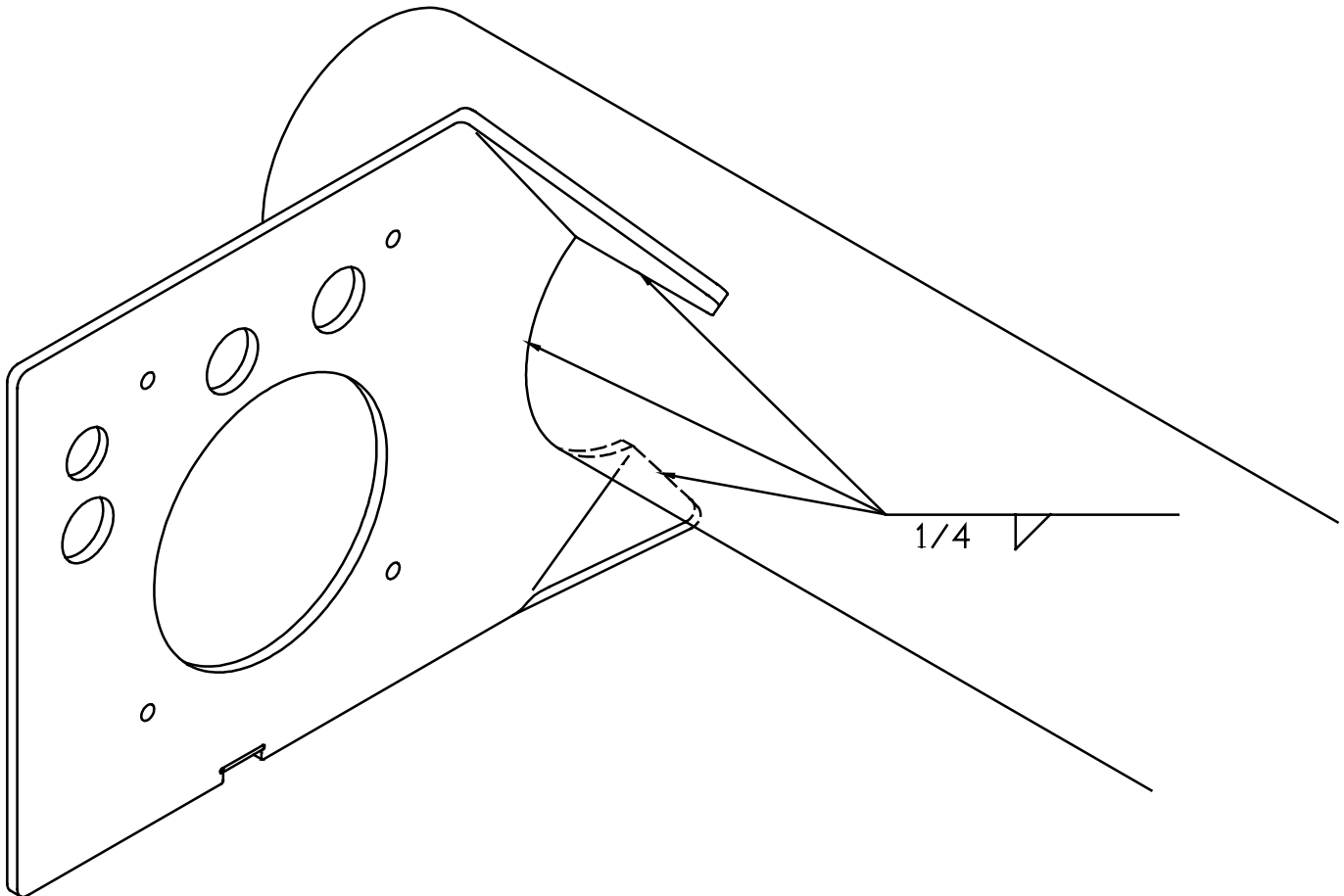


# WALTCO TECH TIPS

Date: 2-23-2000  
No. TT000042  
Model: C-15, C-20  
EO No. 3700o

## PUMP UNIT RELOCATION OPTION for Reduced Installation Flipaways

Effective immediately, there is a new option available for those who need to relocate their hydraulic pump units on C, E, or F series flipaways. The new bracket facilitates mounting of the pump and motor on the front side of the mount tube, as it is factory mounted now on the F series. The bracket is shipped loose, so the installer may attach it anywhere along the front side of the mount tube. Waltco P/N 20220911.



Weld three sides 100% as shown above.

Install new gasket P/N 10090410, then install pump unit and cover.



# WALTCO TECH TIPS

Date: 5-16-2000  
No. TT000046  
Model: C,E,F Reduced  
Installation  
EO No. 3700

## **FAST** Filling of Hydraulic Reservoirs

Fill the hydraulic pump reservoir in **30 SECONDS** or less.

Here's a simple way to speed up filling of the hydraulic reservoirs on the C and E series Reduced Installation liftgates:

Find a rubber grommet that fits snugly to your pouring spout or hose, and has an OD of at least 1". When used in filling the reservoir, the grommet prevents backup and spillage of the oil. So, the oil flows into the reservoir and nowhere else. This is not only much faster, but cleaner also.

For the common "Swingspout" oil can, an excellent fit is obtained with a ½" knockout grommet (Jandorf P/N 90736 or equivalent) available at many hardware stores. Ask your Waltco representative for a sample to try.

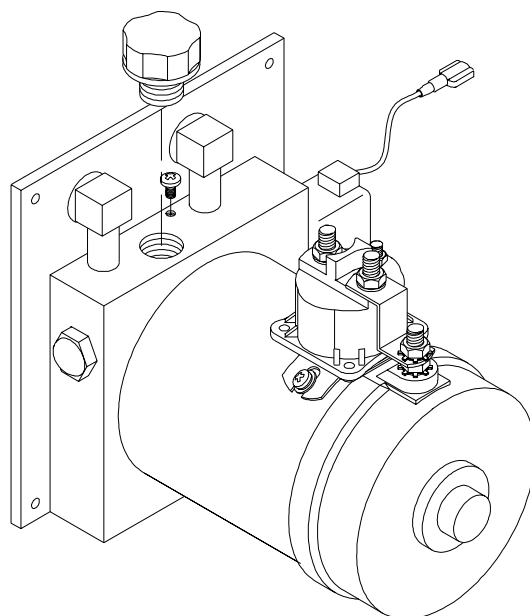
Once you've installed the grommet on your nozzle, the filling procedure is as follows:

1. Remove the Breather Cap
2. Remove the Vent Screw
3. Insert grommeted nozzle, pull the trigger and let it flow.



1. Remove Breather Cap

2. Remove Vent Screw



3. Insert grommited nozzle, and pull trigger.





# WALTCO TECH TIPS

Date: 2-16-01  
No. TT000061  
Model: F, C, E  
EO No. 4350

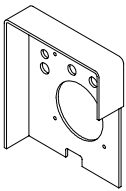
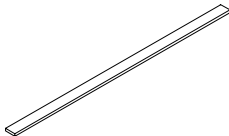
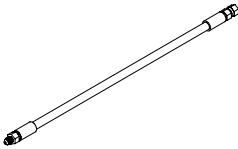

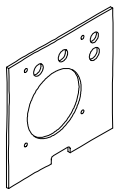
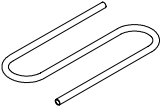
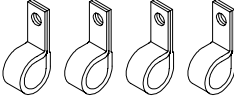
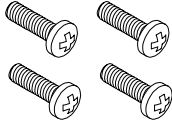
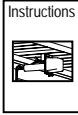
## New Remote Pump Mounting Kit

A new kit has been released that will allow the pumps used on the F, C, and E to be mounted remotely from the liftgate.

It will soon be available as a standard option for the F, C, and E series liftgates. As for other models, this kit will need to be ordered as a special, along with one of the new style pump units that are compatible with it.

Included in the kit is a mounting bracket that can be installed either on the chassis frame or to the body cross members.

### Contents:

(1) Mounting Bracket 	(1) 1/4" x 1" x 22" Flat Bar Brace 	(1) 20" Hose Extension (2 for Power Down) 	(1) Square Plug for pump reservoir 	(1) Gasket 
(1) 60" PVC Return Line (0 for Power Down) 	(4) Hose Clamps 	(4) Self-tapping screws 	Instructions 	

With the hose extensions included in the kit, the pump can be mounted to about 5ft. from the liftgate. However, this kit can be customized by our SP department to include longer hoses for greater distances.

This kit can be beneficial for different situations, such as:

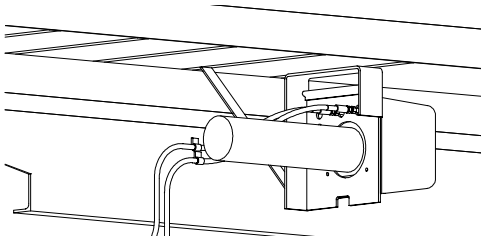
- Installing a C-series liftgate on a truck with a low bed height. The pump can be mounted well above the ground.
- When the liftgate is very close to the rear tires. The pump can be mounted out of the way of kicked-up debris or wind-blown mud flaps.

**80000904** = Kit for Gravity Down      **80000905** = Kit for Power Down

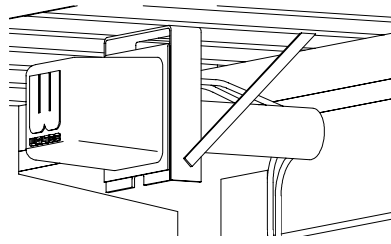
See attached installation Instructions for Kit.

1. Locate a position for the pump on the truck frame as near to the rear of the vehicle as practical.  
Shown below are three possible ways the pump may be mounted.

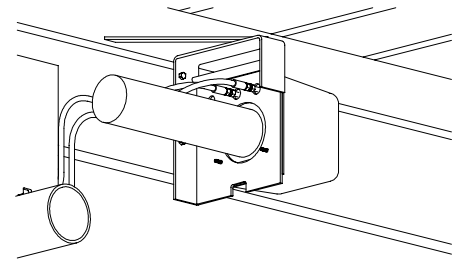
Mounted on crossmembers parallel to the vehicle frame



Mounted on crossmembers perpendicular to the vehicle frame



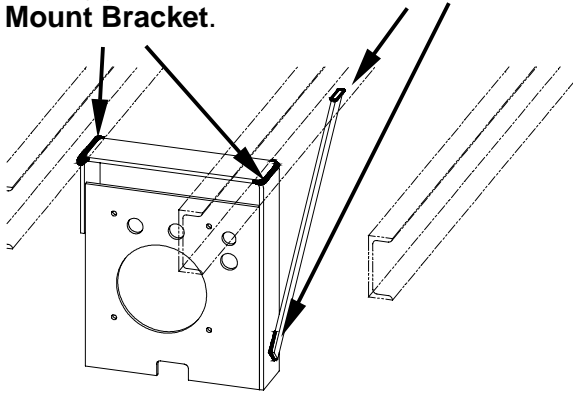
Bolted or welded to the vehicle frame



2. Install Remote Bracket on to the vehicle.

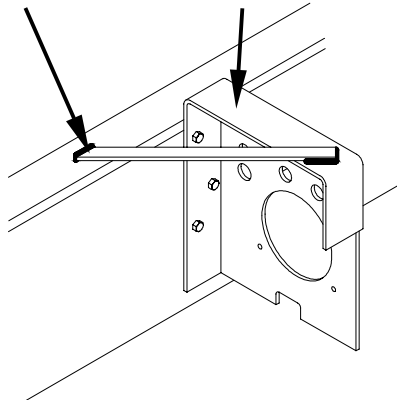
#### If welding to crossmembers

Weld top ends of Mount Bracket to a crossmember.  
Weld both sides of one end of Brace to a crossmember.  
Weld (3) sides of other end of **Brace** to the **Mount Bracket**.



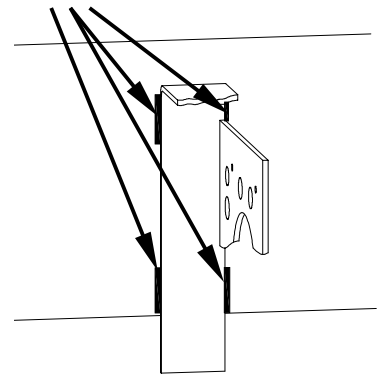
#### If bolting Mount Bracket to vehicle frame

Weld both sides of one end of Brace to the body long member.  
Weld (3) sides of other end of **Brace** to the **Mount Bracket**.



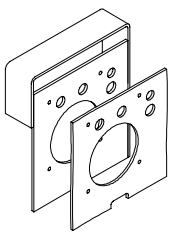
#### If welding Mount Bracket to vehicle frame

Weld the Mount Bracket as shown

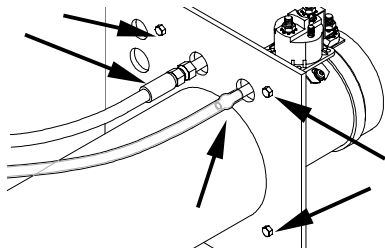


Also weld Brace as shown in previous picture.

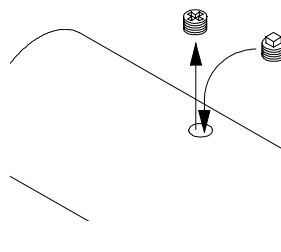
3. Add Gasket to Mount Bracket.



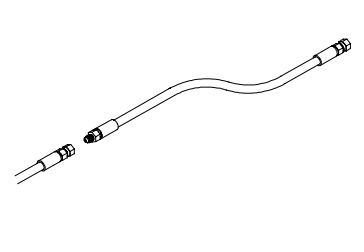
4. Detach hoses and unfasten (4) hex-screws to remove pump.



5. Replace vented plug with Square Head Plug

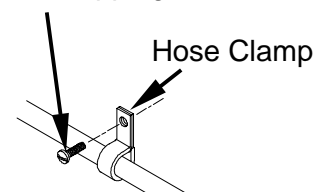


6. Connect Hose Extension to Hydraulic Hose.



7. Fasten Pump to Mount Bracket using the (4) hex screws.
8. Re-attach hoses.
9. Secure hoses to the vehicle using the hose clamps and self-tapping screws provided.

#### Self-tapping Screw



**IMPORTANT:**  
Hydraulic hoses are to be protected from sharp edges, and never secured near exhaust system.



# WALTCO TECH TIPS

Date: 9-28-01  
No. TT010066  
Model: E-Series  
EO No. 4455

## **SUBJECT: E-30 RM RELEASE**

- Engineering is releasing the new E-30 RM into production.
- Engineering is releasing a walk ramp option for the E-30.
- Engineering is also releasing a minor change to the E-25 RM.
- Engineering is releasing three (3) new part kits.

These releases and changes should be in effect **approximately November 1<sup>st</sup>, 2001.**

### **E-30 RM**

Design is basically same as E-25 with these exceptions:

- ◆ 1" thick Parallel Arm (vs ¾")
- ◆ Only two Platforms sizes are released:
  - 36x72+6
  - 40x72 Wedge
- ◆ Walk Ramp capable:
  - Lower Cylinder Tower to clear walk ramp (previously SP)
  - Hook on Bed Extension off set, out of way of ramp (previously SP)
  - Bail on platforms off set to match hook on bed extension (previously SP)
  - Optional Walk Ramp Kit (80000432) will include the clips to be weld under the bed extension and instructions for clips and how to notch bed extension.
  - Bed height range for walk ramp option, remains 49"-54"
- ◆ New Stop Blocks (hinges) have narrower collars to accept 1" parallel arms
- ◆ New Pins for parallel arms, at stop blocks, to allow clearance for 1" parallel arms

### **E-25 Changes**

- ◆ The E-25 will also use the new Stop Blocks and Pins as the E-30
- ◆ Old E-25 Stop Blocks have been obsoleted
- ◆ New kits have been released so new Stop Blocks can be used on older liftgates
  - Kits contain the new Stop Blocks and Pins
  - Kit 80000970 = Half Dip
  - Kit 80000971 = Full Dip (Wedge)

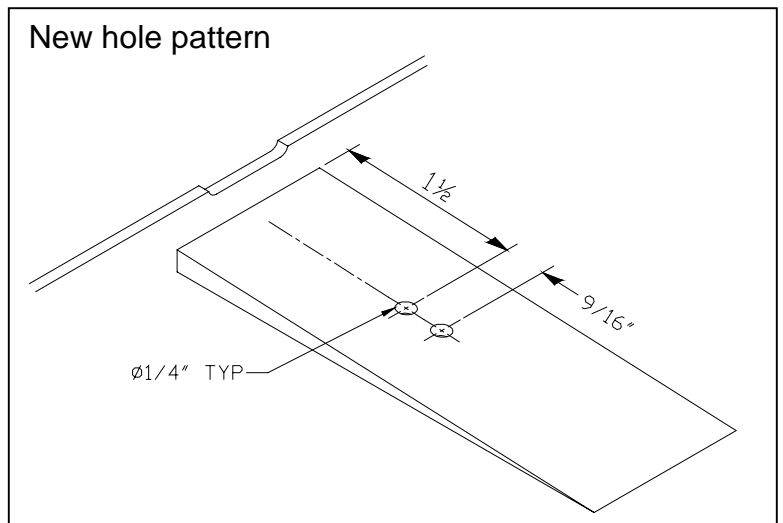
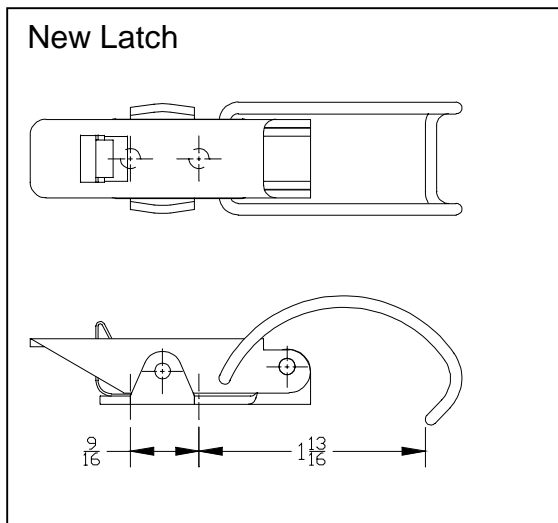


# WALTCO TECH TIPS

Date: 6-8-01  
No. TT010071  
Model: F, C, E  
EO No. 4332

The latch on the pump cover for a reduced installation pump has been replaced with a new latch. As a result of the new latch having a different mounting hole pattern, new holes will need to be made in the cover when replacing an old-style latch.

A new latch replacement kit (80000764) has been released. It includes instructions for locating and drilling fastener holes for the new style latch in case the latch being replaced in the field is the old style.





# WALTCO TECH TIPS

Date: 10-24-01  
No. TT010072A  
Model: F, C, E  
EO No. 4556

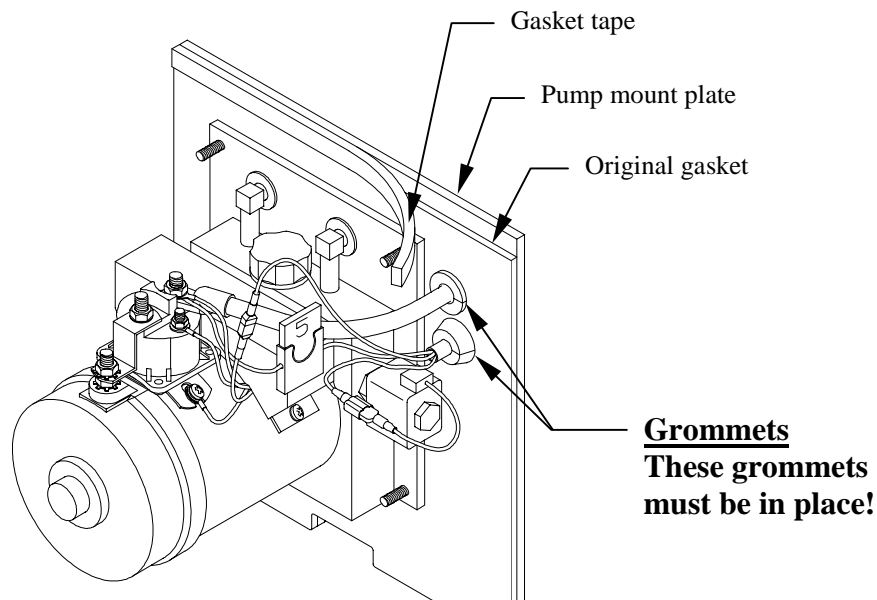
The seal around the pump cover on the Reduced Installation liftgates can be improved with the use of a new kit (80000745).

Gasket tape from the kit is added to the existing gasket on the liftgate. This is to ensure that the entire opening of the hood is gasketed.

Also in the kit are grommets that should be used to seal around the battery cable and control cord.

For further details, see the Auxiliary Gasket Installation Instructions (80101302).

Note: The gasket has been lengthened, new units will not require the gasket tape.



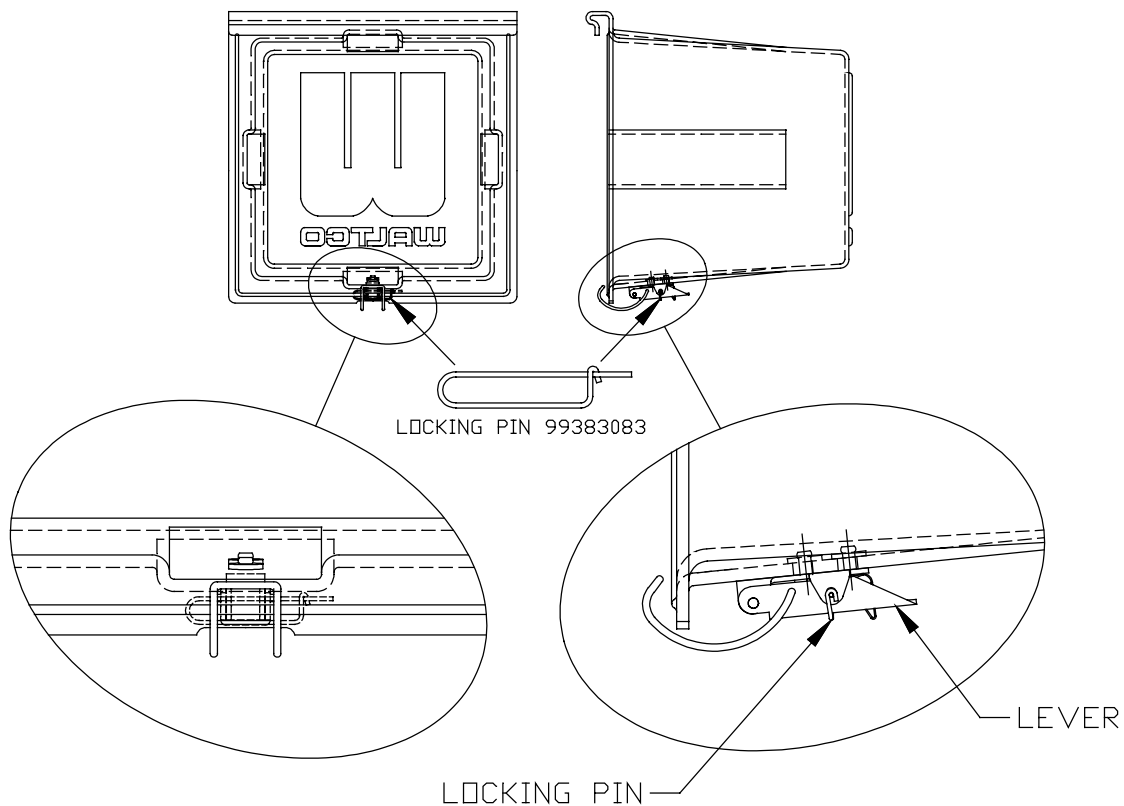


# WALTCO TECH TIPS

Date: 10-25-01  
No. TT010080  
Model: F, C, E

## Subject: Locking Pin for Pump Enclosure Latch

- A locking pin that will keep the latch engaged on the F, C, or E pump cover is available from Waltco.
- The pin is inserted through holes in the base and in the lever of the latch.
- The pin will hold the lever from springing open.
- The part number for the pin is 99383083.
- Locking pin is free of charge.





# WALTCO TECH TIPS

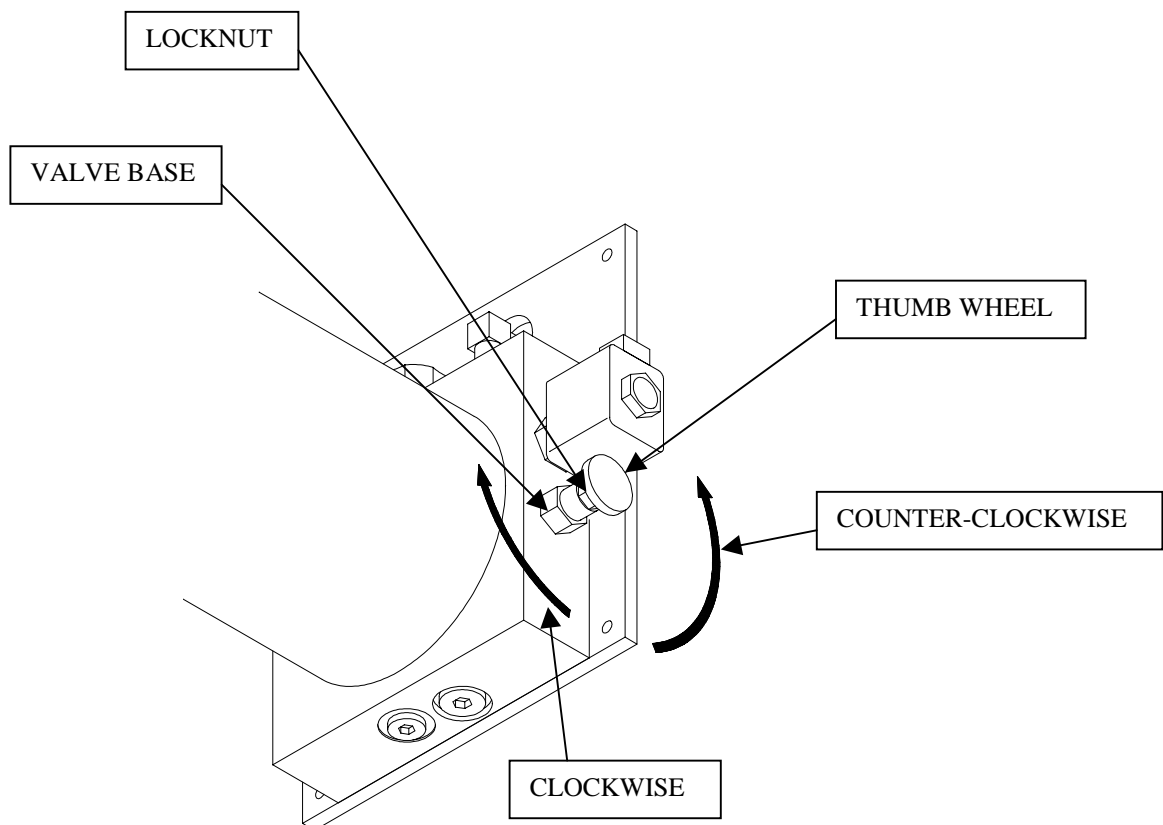
Date: 10-29-01  
No. TT010081  
Model: F,C,E  
EO No.

## Flow Control Adjustment for Gravity Down Flipaway Liftgates

With some pumps, slower lowering speeds may be desired beyond the full adjustment of the Flow Control Valve. Here's a simple way to create more adjustment when needed:

1. Locate the flow control valve on the side of the pump body.
2. Loosen the 7/16" locknut under the thumb wheel.
3. Turn the thumb wheel counter-clockwise, to back it out at least 3 turns from bottom.
4. Turn the 1/2" hex at the base of the valve in (clockwise only). Go no more than 1/2 turn at a time. In most cases, 1/4 to 1/2 turn will be sufficient.
5. Operate liftgate, adjusting thumb wheel to get the desired speed.
6. Tighten 7/16" locknut.

**IMPORTANT: TURN VALVE BASE NUT CLOCKWISE ONLY:** Turning counter-clockwise may cause leakage around the threads, requiring removal and resealing of the valve. Thumb wheel may be turned in either direction as needed when adjusting lowering speed.





# WALTCO TECH TIPS

Date: 9-13-02  
No. TT020106  
Model: E RM  
EO No. 4848

## ENGINEERING RELEASES NEW HITCH FOR E-RM LIFTGATES

Our newly released hitch for the E-RM series is a one size fits all. The only fit requirement is that it be an E gate. It will work with any bed height or any ball height requirement that the customer has.

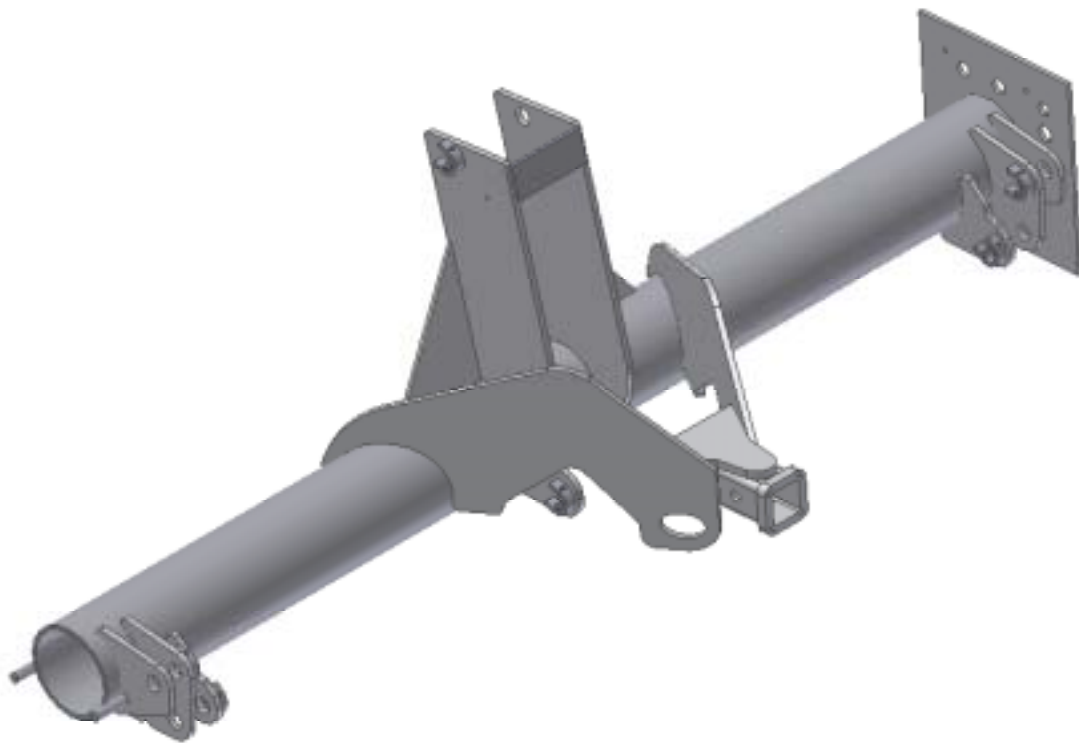
The only hitch we are selling is rated Class IV with a GVWR of 10,000 pounds and a maximum tongue weight of 1,000 pounds. It is a receiver type hitch (square tube only – draw bar sold separately) and is rated at Class IV for both weight carrying (straight ball) and weight distributing (ball with torsion bars) draw bars. Kit number 80000982 is for the retrofitable hitch and Kit number 80000981 is for the hitch pre-installed at the factory.

The idea behind this design is that the customer can purchase from any hitch manufacturer (Reese, Hidden Hitch, Draw Tite, etc.) standard off the shelf items that can give the customer the versatility to meet their own requirements including any ball height, weight distributing draw bars, and yes, even pintle hooks at any height.

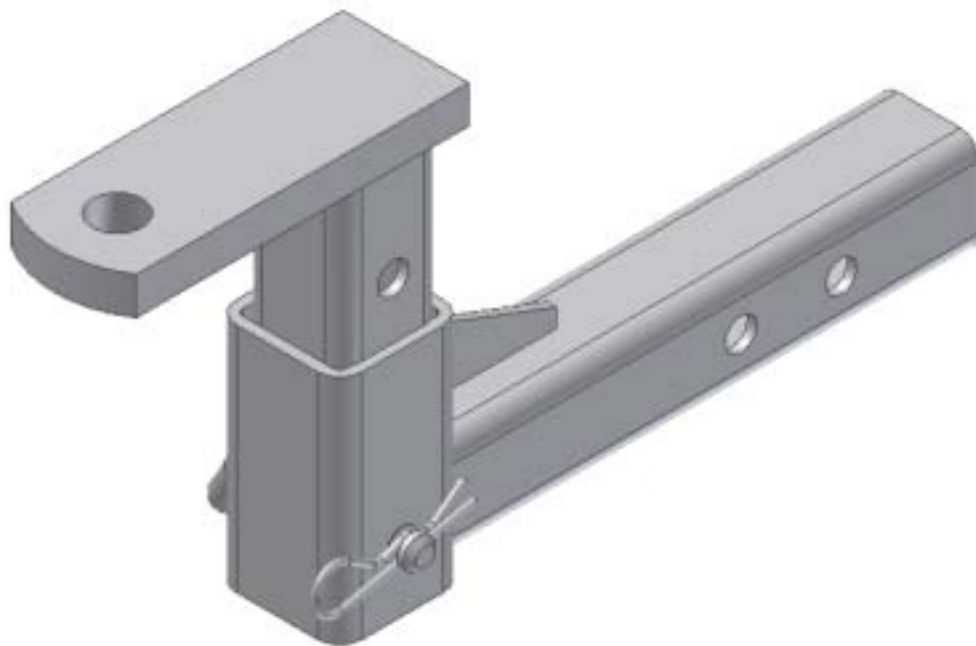
For those who require a welded in version of this hitch a draw bar can be purchased and welded in. It is recommended that they install a draw bar and weld only the pull pin so draw bar removal would not be difficult for a well-equipped shop and only after checking that the gate can be operated with the draw bar installed (clearance could be an issue).

Where it is intended for the customer to purchase his own draw bar meeting his own requirements, we will offer as a selectable option in COP a “universal” draw bar kit 80000983, which gives the customer a weight carrying draw bar (no ball provided – see drawing below) with an adjustable ball height built in. It has a total of 13” of adjustment (7” up, 6” down). It also adjusts 2” in depth. **NOTE: this is a Reese standard shelf item and is only rated to Class III. If this draw bar is provided, our receiver will still say Class IV but the draw bar will say Class III.** Each item is clearly marked however, as a chain is only as strong as its weakest link, a hitch assembly is only as strong as its weakest

component rating. The draw bar is rated at 5000 pounds GVWR with a 500 pound tongue weight so the purchase of our optional draw bar de-rates the system to a Class III.

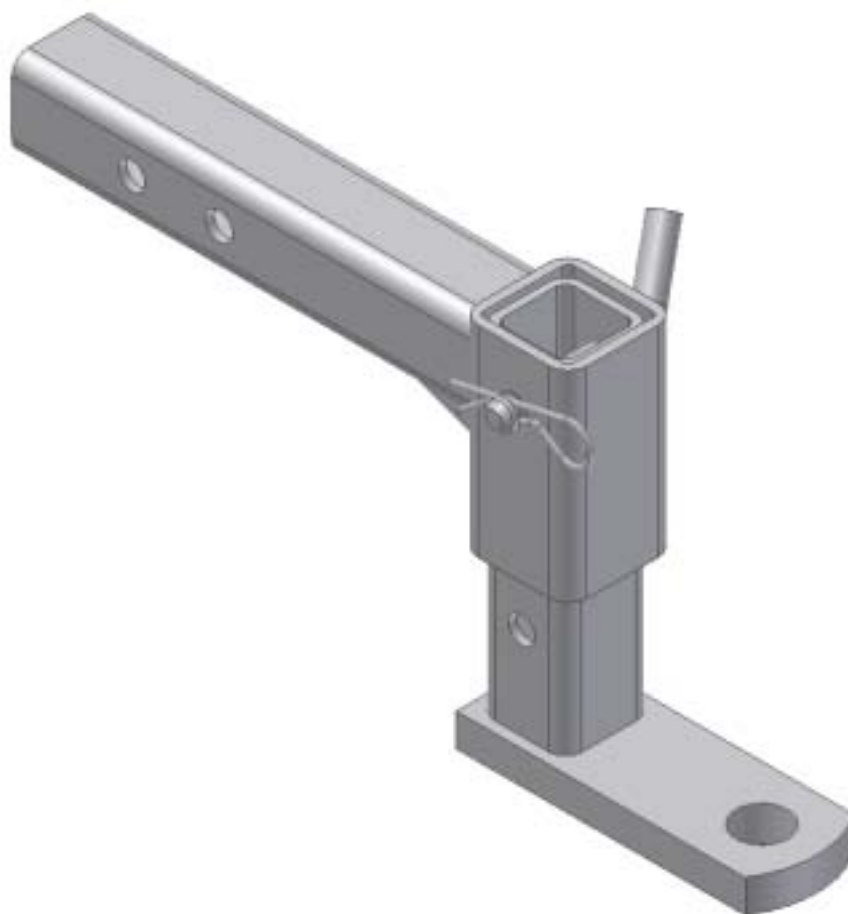


Hitch installed on E mount frame **Class IV**



Universal Draw Bar **Class III** (highest position)





Universal Draw Bar **Class III** (lowest position)





# WALTCO TECH TIPS

Date: 09-27-02  
No. TT020102 rev 02  
Model: C, E, F

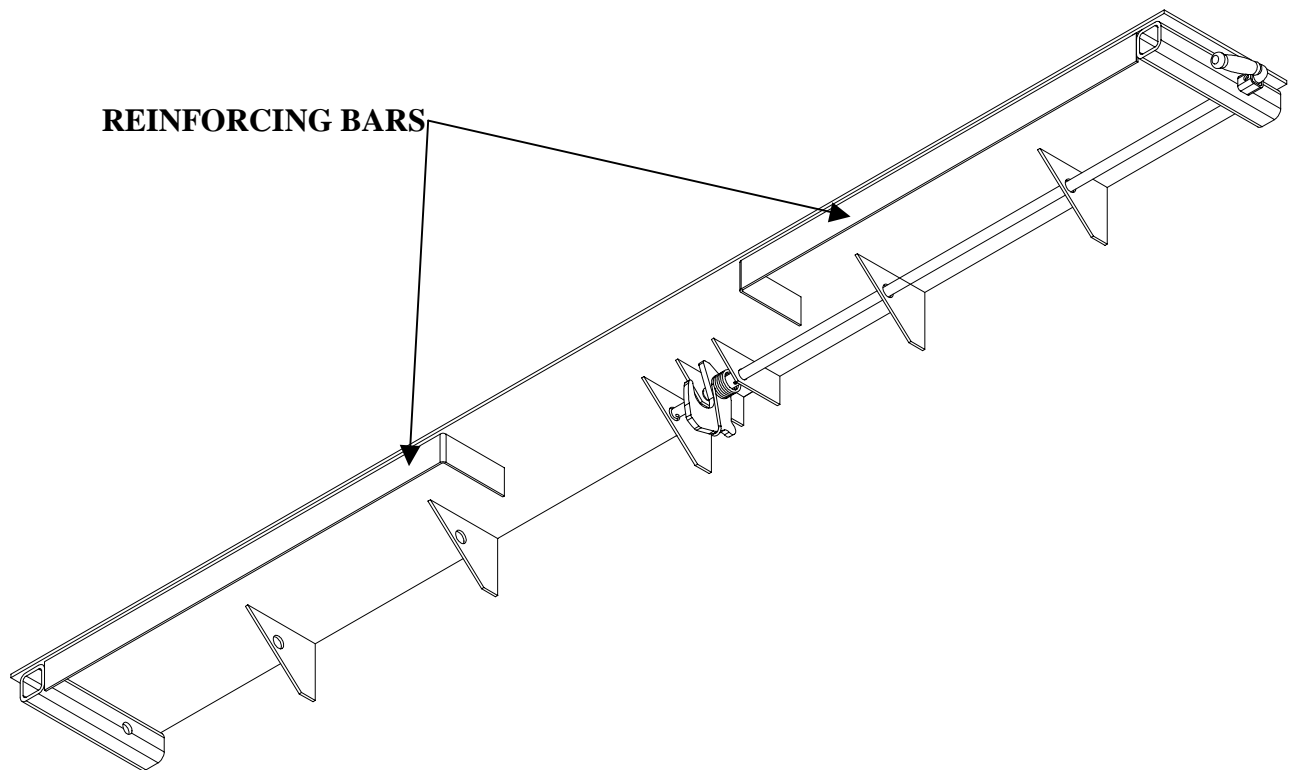
An SP has been created to increase the strength of the bed extensions on all Cs, Es and Fs.

This SP incorporates a new location for the latch hook on the bed extensions and a new bail location on the platforms for the E-25 series. This was done to allow every E-series gate to be compatible with a walk ramp. All the customer needs to do is cut notches in the E series SP bed extension to accept the ramp.

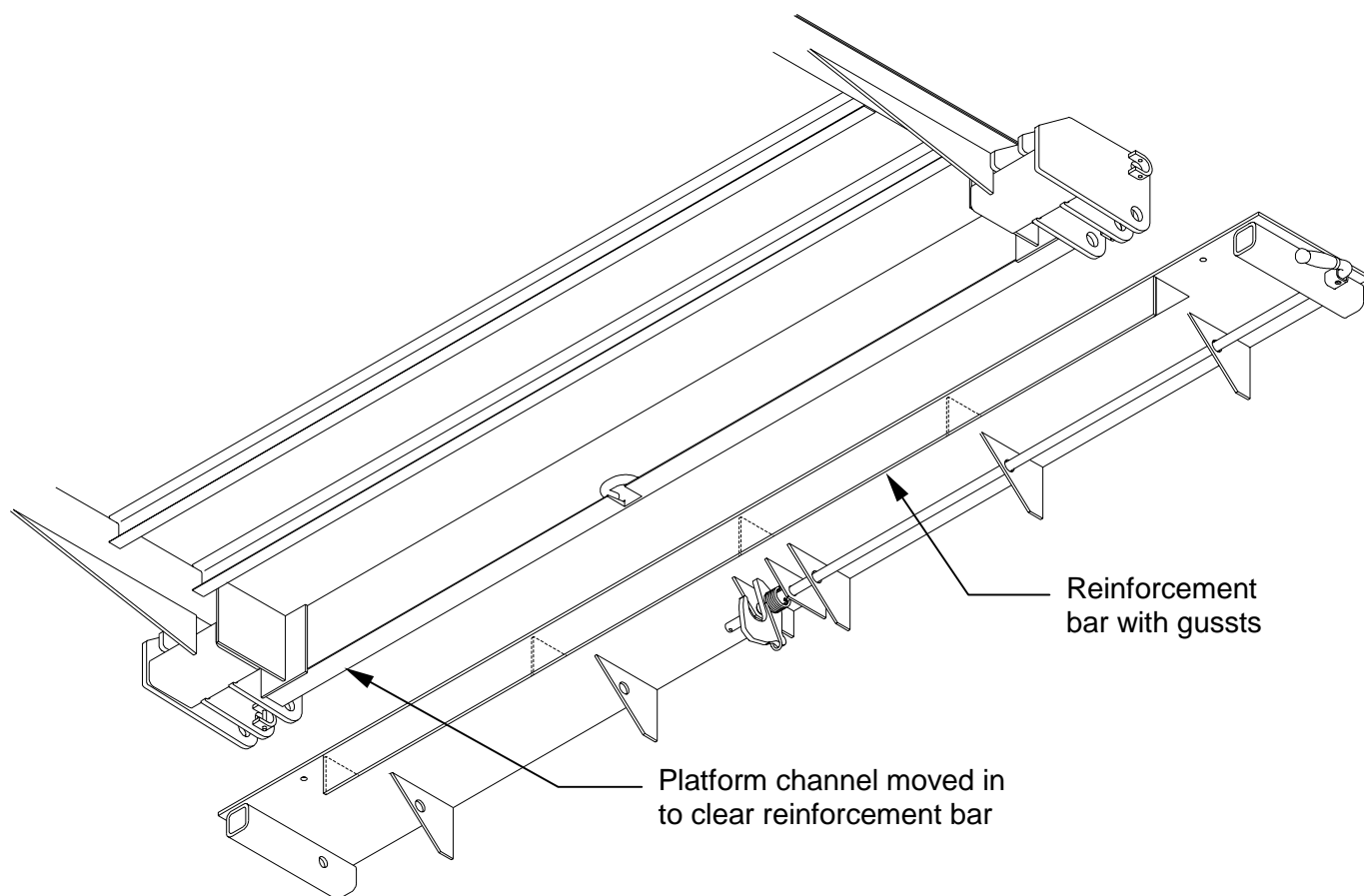
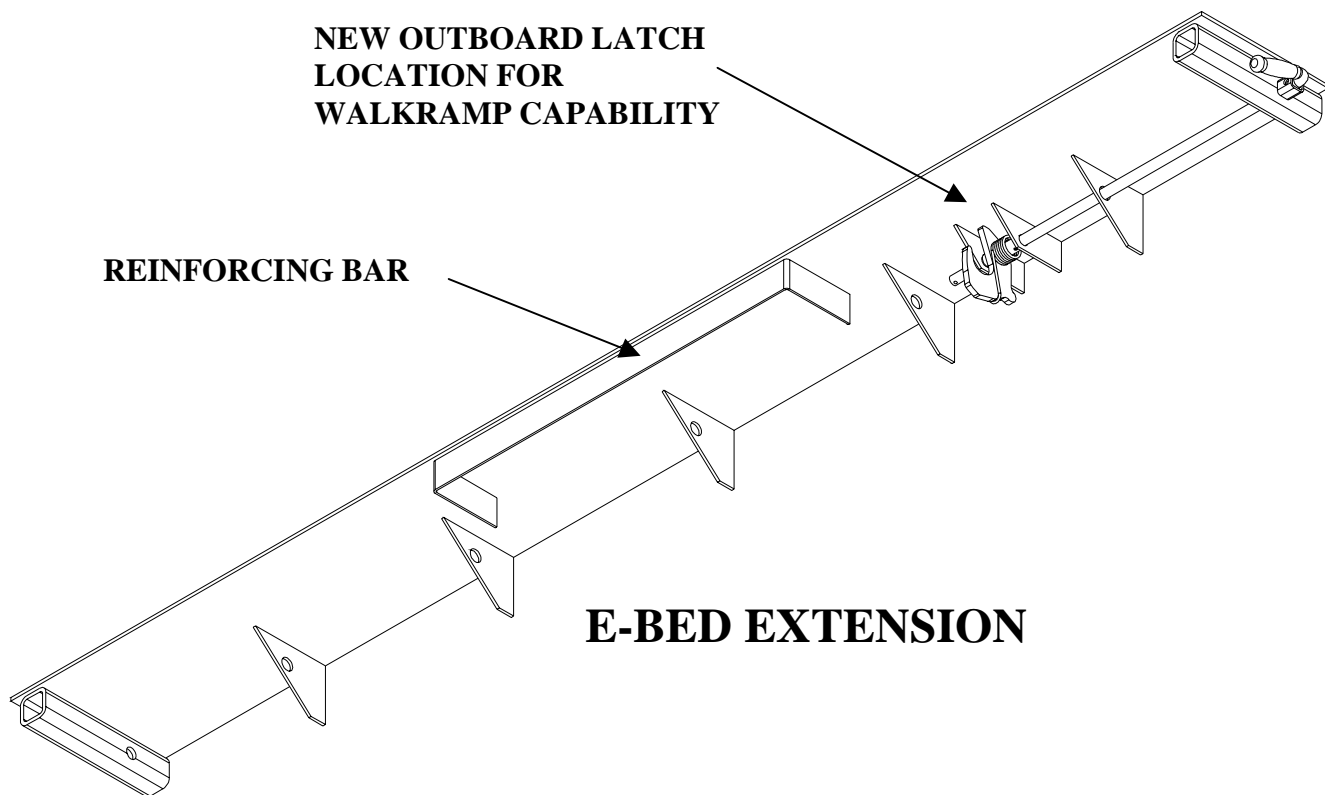
The special F bed extension can only be used with a special platform that fits around the reinforcement bar.

For C or E series gates order SP #0245

For F series gates order SP#0252



**C-BED EXTENSION**



## **SPECIAL F-BED EXTENSION and PLATFORM**



# WALTCO TECH TIPS

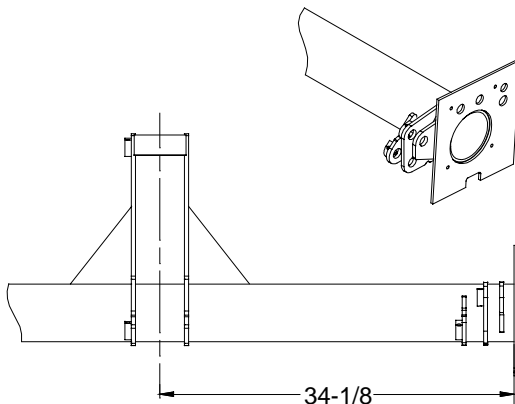
Date: 3/25/03  
No. TT030122  
Model: E & F  
EO No. 4978

## SUBJECT: C, E, & F PUMP CONSOLIDATION

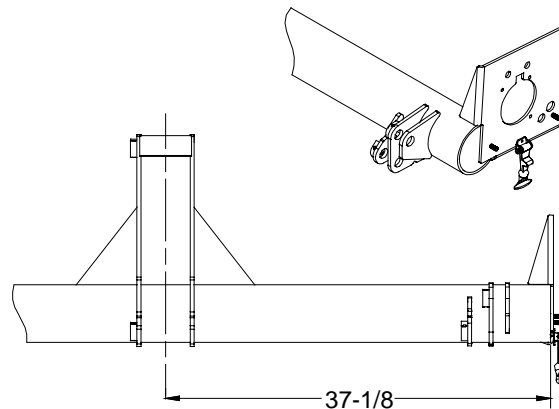
The C, E, and F Series gates will now share common pumps. This consolidation involves the following changes...

### Pump Location on E-Series

- Pump now located out of the Mount Tube, positioned forward of the Tube
- The Mount Tube is lengthened 3" on the curb side to provide room for the Pump Reservoir
- Matches C and F Series design
- Eliminates need for a breather plug in Pump Reservoir
- Improves ground clearance



OLD



NEW

### Common Pump Units

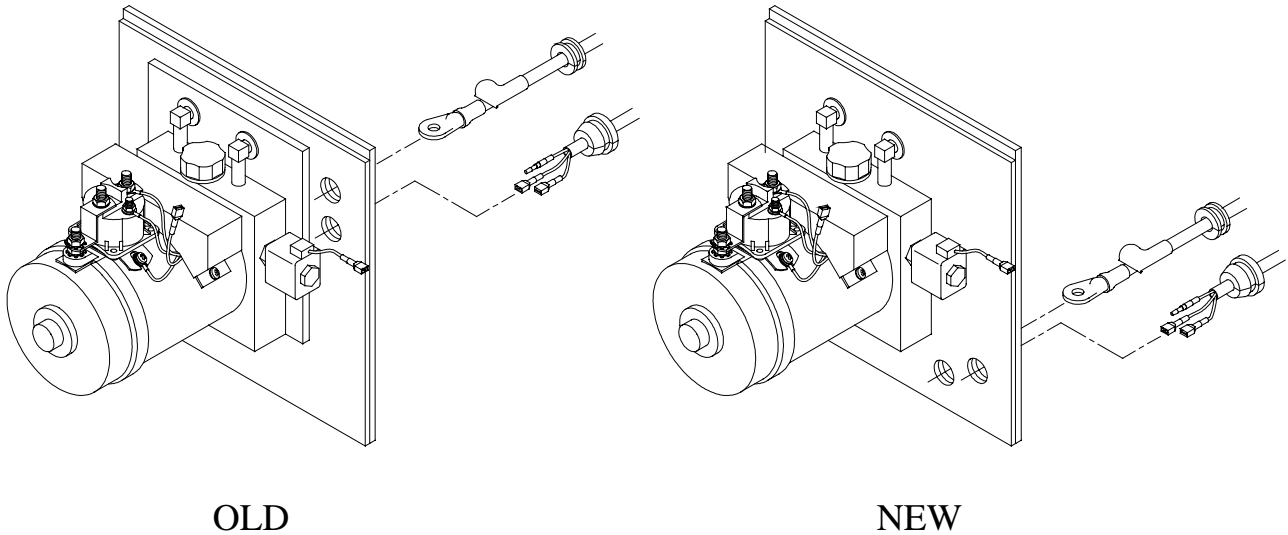
- All F, C, and E gates once again use the same Pump Units
- All F, C, and E gates will once again use the same optional Remote Mount Pump Kits (80000904 & 80000905)

### Common Pump Covers:

- All F, C, and E gates once again use the same Pump Cover with the rubber draw latch

### Electrical Cable Routing Improved

- The Control Cord and Battery Cable now route to the Pump through a lower position on the Pump Mount Plate.
- This will reduce the amount of water getting into the Pump area if grommets are not installed



### New Pump Replacement Kits

- Old Pump Unit numbers are still valid. However, to save on inventory we will no longer sell the old Pumps.
- The old Pump numbers have been converted to service kits that include the following...
  - New Pump
  - Replacement kit (80000998) including an Adapter Bracket (no longer used on new gates), grommets, hardware, and instructions required to install new Pump.

### Other Miscellaneous Changes

- F-Series Pump Mount Plate hole pattern now matches C-Series Pump Mount Plate
- Manuals and PM's have been updated for these changes



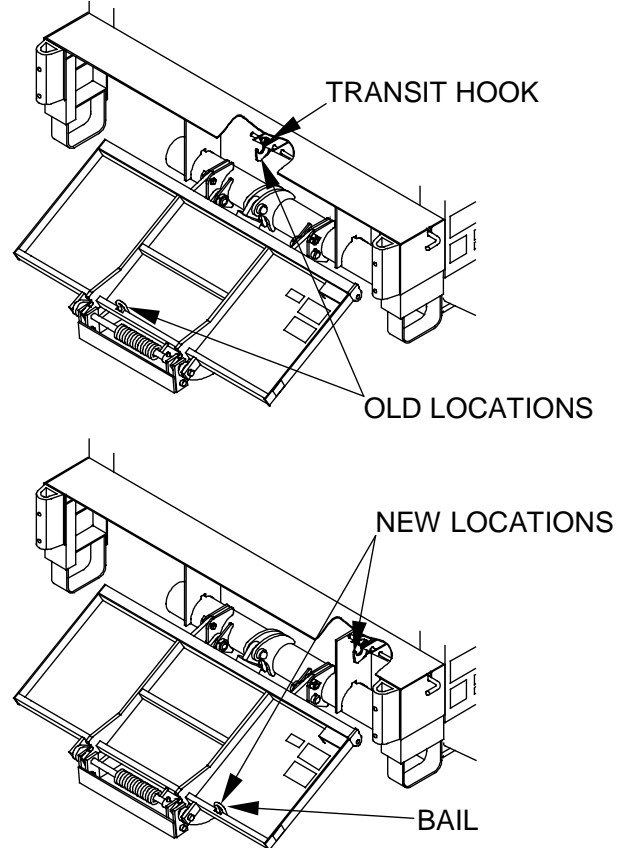
# WALTCO TECH TIPS

Date: 5/30/03  
No. TT030130  
Model: F, C, and E Series  
EO No. 5038

## Bed Extension Consolidation

**Waltco has consolidated Bed Extensions used on it's F, C, and E Series liftgates.**

- Effective mid July, these gates will use the new design Bed Extension.
- This new Extension design is currently used on all E-30 liftgates.
- The new Extension has the Transit Hook shifted from the center to the curbside. The Platform Bail is also shifted to align with the Hook.
- Bed Extensions come in two (2) widths, one for 96" wide bodies, and one for 102" wide bodies.



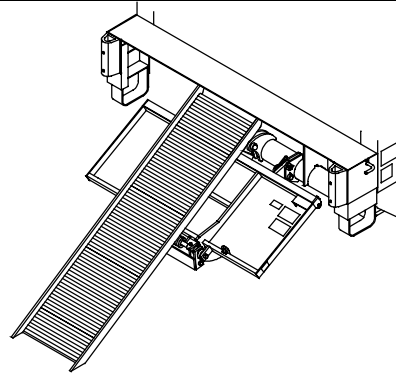
GR00374

### **Advantages:**

- Reduced inventory
  - One Bed Extension for all F, C, and E liftgates.
- All C and E liftgates now compatible with walk-ramps.

## Walk Ramp Compatible

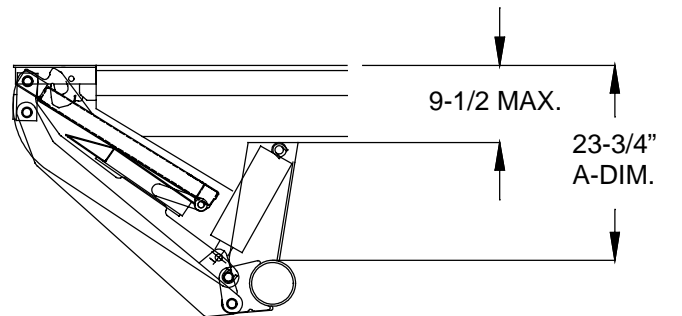
- C and E liftgates will now be compatible with walk-ramps.
- Use optional Walk-Ramp Installation Kit (part number 80000432).



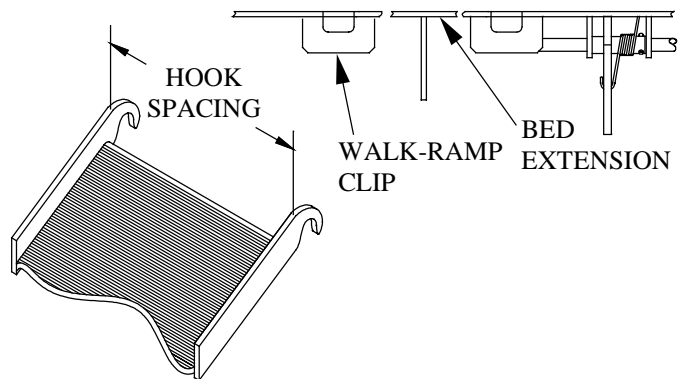
GR00375

## Walk-Ramp Restrictions

- E-Series Liftgates have a maximum clearance for walk-ramp of 9-1/2".  
This is from top of floor to top of Cylinder Tower with maximum A-Dimension of 23-3/4".
- F-Series Liftgates are not compatible with walk-ramps. Walk-ramp clips would interfere with F-style Platforms when the Platform is open at bed level.
- C-Series Liftgates can only be used with walk-ramp hook spacings of 26" or greater.
- Can not be used with 21-3/4" hook spacing. C-Series Liftarms are too wide to fit between the ramp hook clips.



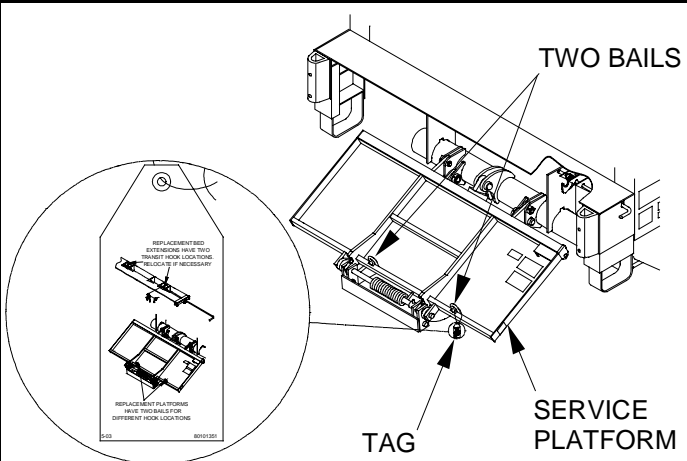
GR00376



GR00377

## SERVICED PLATFORMS

- All Current F, C, and E Platform part numbers will be changed to service status.
- All serviced Platforms will receive a second Bail to make them compatible with both the old and new styles.
- Replacement Bed Extensions will have two available locations for the Transit hook also for old and new style compatibility
- Replacement Platforms and Bed Extensions will receive a tag explaining these changes



GR00378



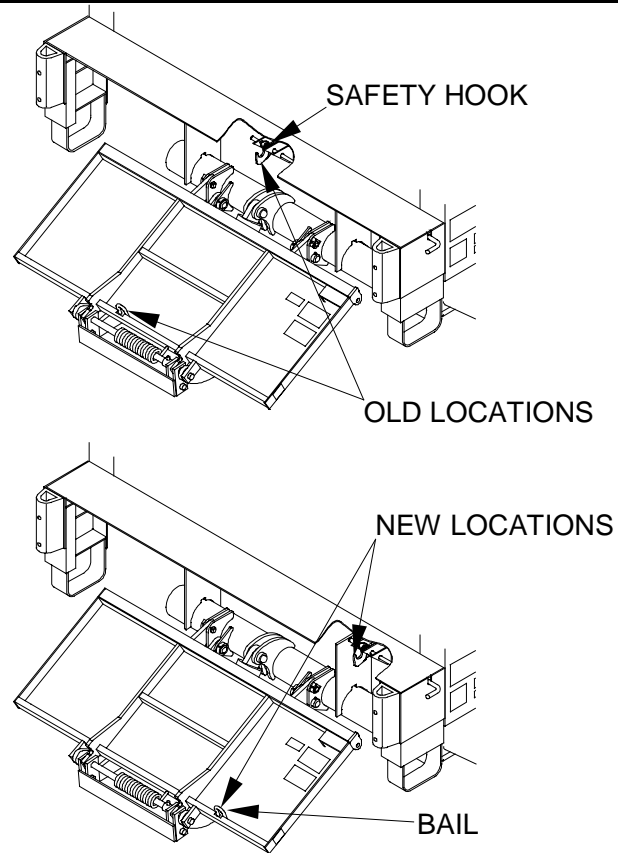
# WALTCO TECH TIPS

Date: 5/30/03  
No. TT030131  
Model: F, C, and E Series  
EO No. 5038

## F, C, and E Deck Extension Consolidation

### PURPOSE

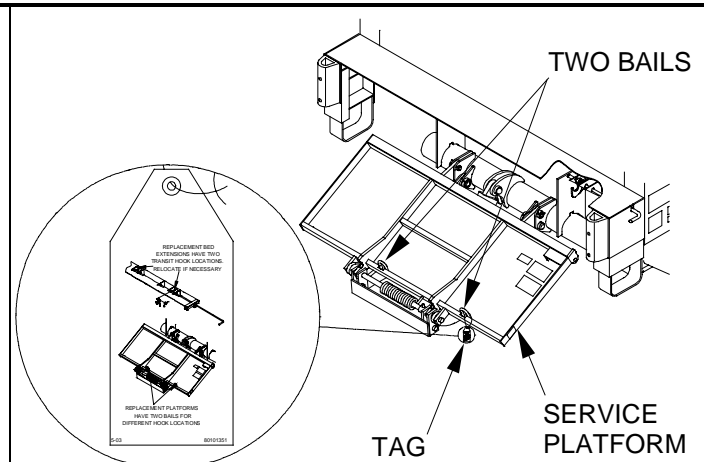
- In the past, our Flipaway liftgates have not been compatible with trucks that have walk-ramps.
- This issue was alleviated with a redesign of the E-30's Bed Extension that moved the Transit Hook and Bail on the underside of the Deck toward the curb side of the truck and out of the way of the walk-ramp
- To make more of our Flipaway liftgates walk-ramp compatible, as well as reduce inventory, the E-30 Bed Extension will now be used with all F, C, and E-series liftgates
- A chart is provided below as a part number reference regarding these changes



GR00341

### SERVICED PLATFORMS

- All Current F, C, and E Platform and Bed Extension part numbers will be changed to service status. All E-25 and E-30 Platforms built after mid-July will use the service E-25 Decks as replacement Decks.
- All service Platforms will receive a second Bail to make them compatible with the old and new styles.
- Replacement Bed Extensions will have two available locations for the Transit hook.
- Replacement Platforms and Bed Extensions will have a tag explain these changes



GR00378

## E-25/30 DECK CONSOLIDATION

E-25 and E-30 Main Deck Assemblies have been consolidated in the following manner...

- Wedge Main Deck Assemblies are now obsolete. Wedge Platform Assemblies will use standard Deck Assemblies with the Wedge Extension
- E-25 and E-30 now share the same Deck and Platform Assemblies

## PART NUMBER REFERENCE CHART

SERIES	DESCRIPTION	OLD	NEW	SERVICE
ALL	BED EXTENSION 96"	26260006	26360001	26260006
	BED EXTENSION 102"	26260007	26360002	26260007
F-20	DECK ASSEMBLY, 26 X 72	20211004	20211014	20211004
F-30	DECK ASSEMBLY, 26 X 72	20311014	20311014	20311004
F-40	PLATFORM ASSEMBLY, 26 X 72 + 12	20410022	20410122	20410022
	PLATFORM ASSEMBLY, 38 X 72 + 4	20410034	20410134	20410034
	PLATFORM ASSEMBLY 42 X 72 BE	20410040	20410140	20410040
	PLATFORM ASSEMBLY 42 X 72 + 12	20410042	20410142	20410042
C-15/20/25	PLATFORM, CRM, 36X72 WEDGE	22110030	22110031	22110030
	PLATFORM, CRM, 36X84 WEDGE	22110040	22110041	22110040
	PLATFORM, CRM, 36X72 WEDGE, LB	22110050	22110051	22110050
	PLATFORM, CRM, 36X84 WEDGE, LB	22110060	22110061	22110060
	PLATFORM, CRM, 32X72+4	22110110	22110111	22110110
	PLATFORM, CRM, 32X84+4	22110120	22110121	22110120
	PLATFORM, CRM, 32X72+4, LB	22110170	22110171	22110170
	PLATFORM, CRM, 21X84+4, LB	22110180	22110181	22110180
E-25	PLATFORM ASSEMBLY 36 X 72 + 6	26210110	26310110	26210110
	PLATFORM ASSEMBLY 36 X 84 + 6	26210120	26310120	26210120
	PLATFORM ASSEMBLY 40 X 72 WEDGE	26210130	26310130	26210130
	PLATFORM ASSEMBLY 40 X 84 WEDGE	26210140	26310140	26210140
	DECK ASSEMBLY 24 X 72	26211001	26311001	26211001
	DECK ASSEMBLY 24 X 84	26211002	26311002	26211002
	DECK ASSEMBLY 24 X 72 WEDGE	26211003	26311001	26211003
	DECK ASSEMBLY 24 X 84 WEDGE	26211004	26311002	26211002
E-30	PLATFORM ASSEMBLY 36 X 72 + 6	26310110	26310110	26210110
	PLATFORM ASSEMBLY 40 X 72 WEDGE	26310130	26310130	26210130
	DECK ASSEMBLY 24 X 72 WEDGE	26311003	26311001	26211001



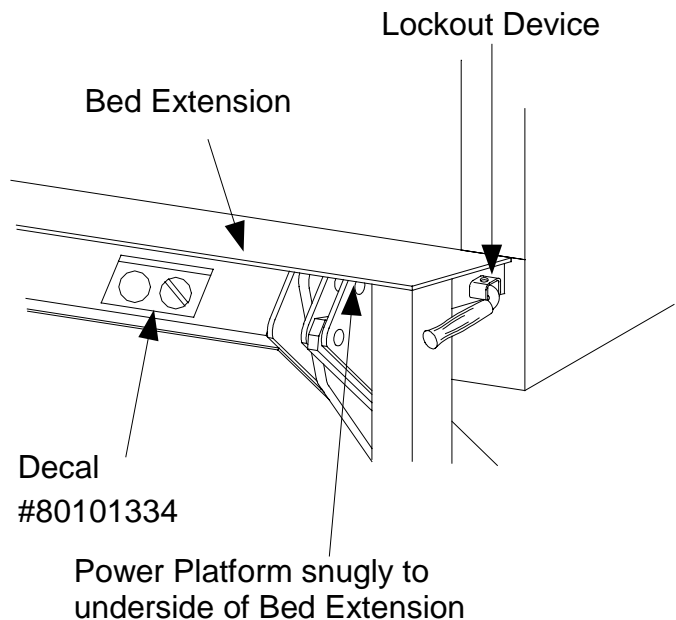
# WALTCO TECH TIPS

Date: 7/22/03  
No. 030138  
Model: FLIPAWAY  
EO No. 4917

## SUBJECT: FLIPAWAY STORAGE INSTRUCTIONS

### TO STORE LIFTGATE FOR TRANSIT

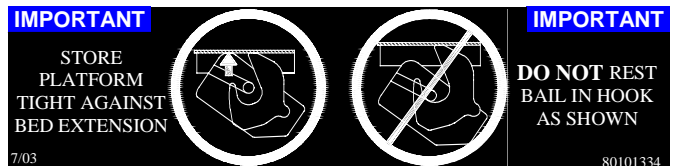
- Lower Platform to ground.
- Fold Platform.
- Raise Platform to transit position.
- Power Platform snugly to underside of Bed Extension.
- Insert a padlock into Lockout Device, if desired, to prevent unauthorized use of liftgate.



GR00180

### AVAILABLE DECAL

- Decal 80101334 is available for F, C, E, and LPF Flipaway Liftgate
- The decal should be placed on the back of the Platform nearest the curb side of the truck (as shown above)



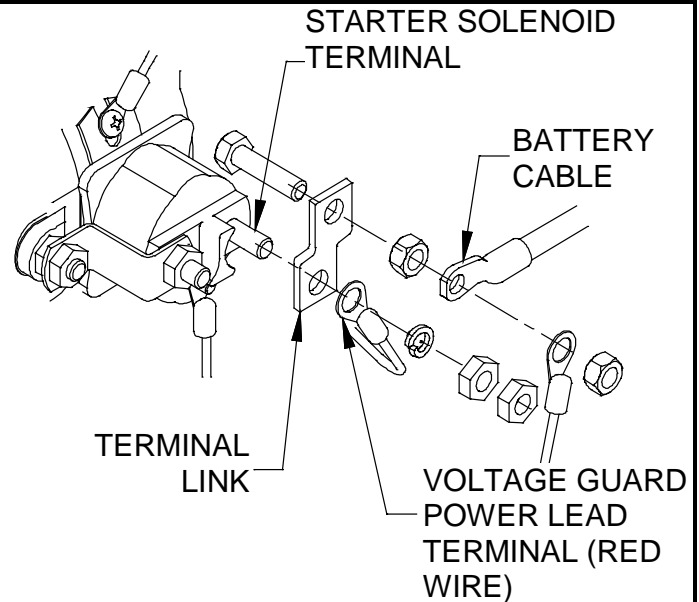


# WALTCO TECH TIPS

Date: 8-22-03  
No. TT030139  
Model: All  
EO No. NA

## SUBJECT: Voltage Guard Connections

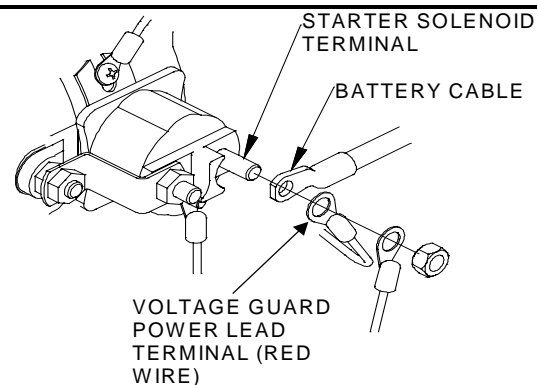
- If you encounter these symptoms in your controls: Motor won't run when Raise or Close switches are actuated, unless Voltage Guard is bypassed. No alarm from Voltage Guard. Before you assume that the Voltage Guard is defective, try this simple fix:
- WDL, RGL, OR WSL VERSION
- Disconnect Battery Cable, and swap the Power Lead to be above the Terminal Link, as shown. Replace Lock Washer and Nuts. Tighten Nut and Jam Nut to 8 foot-pounds.
- Reconnect Battery Cable, tighten to 25 foot-pounds. Use back-up wrench so that Terminal Link does not get moved.
- Retest controls. If still not working, Voltage Guard may be malfunctioning.
- How this works: When the ring terminal on the Power Lead is under the copper Terminal Link, or Battery Cable, it may shift or deform, allowing the connection to get loose. This can lead to a loss of electrical power to the Voltage Guard, which quits working. Putting the Power Lead Terminal on top of the Terminal Link or Battery Cable gives a large, flat surface, for a more secure connection.



GR00662

## ALL OTHER LIFTGATES

- ✓ Disconnect Battery Cable
- ✓ Swap the Power Lead(s) to be above the Battery Cable, as shown. Replace Nut. Tighten Nut to 8 foot-pounds.
- ✓ Retest controls. If still not working, Voltage Guard may be malfunctioning.



GR00663



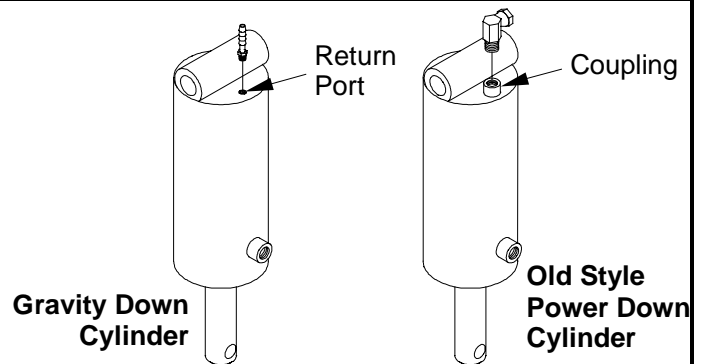
# WALTCO TECH TIPS

Date: 9/15/03  
No. TT030141  
Model: F, E, & FSL  
EO No. 4544

## NEW STYLE POWER DOWN CYLINDERS

### Power Down vs. Gravity Down Cylinders

- The Power Down and Gravity Down Cylinders are made from the same Cylinder.
- The only difference between the two is the Power Down Cylinder has a Coupling welded above the return port of the Cylinder.



GR00691

### Cylinder Consolidation

- Effective October 2003, Power Down Cylinders will become assemblies consisting of the following...
- Gravity Down Cylinder
- 1/4" F X 1/8" M Adapter Fitting (75083318)

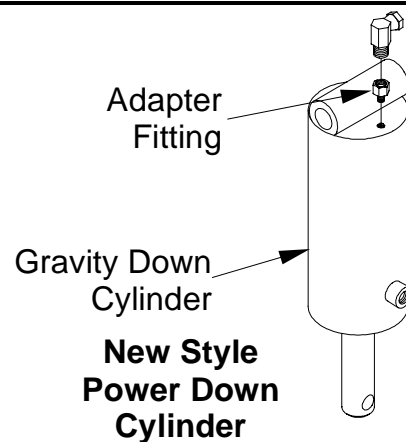
**Note:** Power Down Cylinders will retain their current part numbers.

20280020

20280090

#### Service Parts:

New Power Down Cylinders are compatible with gates manufactured prior to October 2003, so new style Cylinders will replace old style.



GR00692



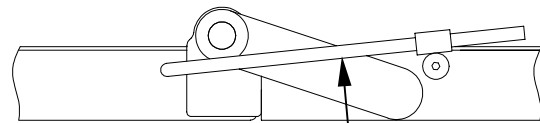
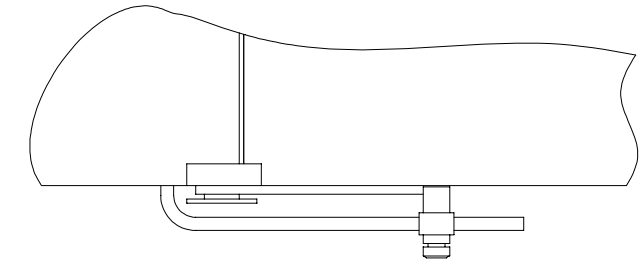
# WALTCO TECH TIPS

Date: 9-26-03  
No. TT030142  
Model: E-Series  
EO No. 5034

## NEW 80" WIDE E-SERIES PLATFORMS WITH TORSION BAR

The 84" wide platforms for the E-Series liftgates have been replaced by 80" wide platforms with a torsion bar. The torsion bar was added to the platforms to assist the folding and unfolding of the deck extension.

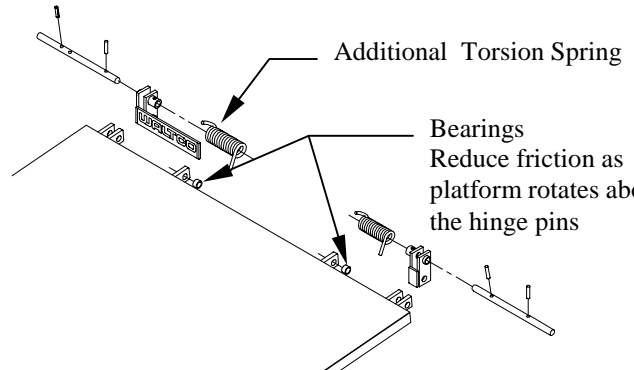
The platforms were shortened to 80" so that the outside leg of the torsion bar would not interfere with dock bumpers.



Torsion Bar  
Assists the folding and  
unfolding of the deck  
extension

Another torsion spring was added to the deck to assist in folding the platform into stored position. Also, hinges with bearings were added to the deck to reduce friction when the platform folds and unfolds.

These features are only on the 80" wide platforms.



Additional Torsion Spring

Bearings  
Reduce friction as  
platform rotates about  
the hinge pins



# WALTCO TECH TIPS

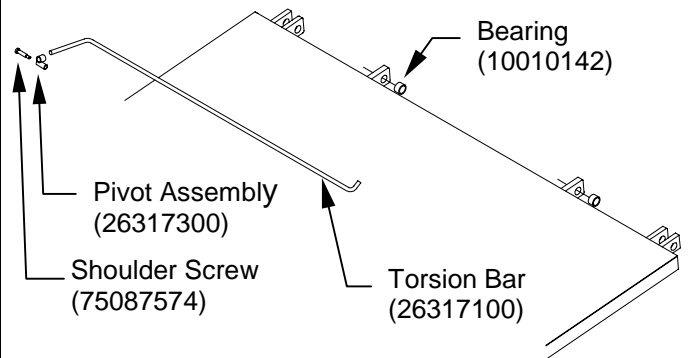
## PARTS DEPARTMENT TECH TIP

Date: 9-26-03  
No. TT030143  
Model: E-Series  
EO No. 5034

### PARTS FOR 80" WIDE E-SERIES PLATFORMS

E.O. 5034 changed the 84" wide platforms to 80" wide.

The 80" platforms have a torsion bar and its pivot assembly. They also have bearings on two of the deck hinges.

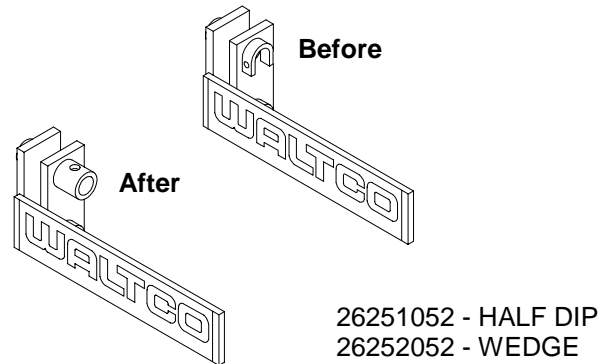


A torsion spring has been added on the driver's side of the 80" wide platforms.

The driver's side hinge assemblies (half-dip and wedge) were modified to accommodate this spring.

When replacing an "old-style" hinge in the field, a 20370400 hinge pin must be sent with the new hinge.

The 80000970 and 80000971 hinge kits now include all the hinge pins.

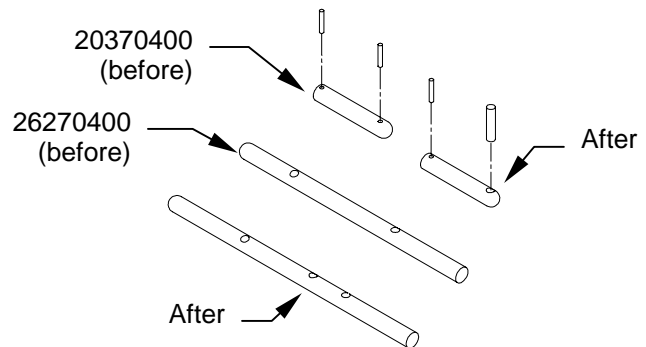


The pin that holds the torsion spring on the curb side was modified to also hold a spring on the driver's side. It was also made longer so that it can extend through the bearings in the deck hinges.

The driver's side pin for the 72" was also modified to work with the new hinges.

See PM-521C for more information

These changes are scheduled to go into effect by January 1, 2004.





# WALTCO TECH TIPS

Date: 10/31/03  
No. TT030146  
Model: All  
EO No. NA

## Lubrication of Reduced Maintenance Bushings

There has been information circulating that lubricants should not be used on the reduced maintenance bushings that Waltco utilizes. This includes both Hydrocarbon lubricants (conventional petroleum based products), and less common Fluorocarbon lubricants. Lubricants can be used with our bushings but an understanding of the advantages and disadvantages is needed.

Lubrication is inherent within the bushings we use and will not dry out. The bushings are impregnated with Teflon that transfers to the pin under load. External lubricants are filled with additives that provide the lubricity. The most common filler is Molybdenum Disulfide, which is commonly referred to as “Moly”. These additives can be microscopic hard particles that roll around between the pin and our bearing liner. This can under some conditions add to premature wear as opposed to adding no grease at all. There are times when grease is the culprit instead of the cure.

Neither the Hydrocarbon nor Fluorocarbon grease material would chemically under most conditions, be a problem for our bushings since our liner is very, very resistant to about all forms of chemical degradation and attack.

Although there is a science to grease, all the analytical work and theory goes out the window when grease is used in the field. The common tendency is to use what is cheap and on hand. This is the reason Waltco reduced maintenance bushings do not have grease fittings that allow just anything to be pumped into the bushing.

The disadvantage in applying an external lubricant is that over time, contaminants could migrate into the bushing creating an abrasive paste. Without the means to purge the old grease, heavy abrasives in the old grease could increase wear in the bushing. Our bushing is designed to handle some abrasives by imbedding them into the fiber lining to keep them away from the pin, but a clean lubricant will achieve the best results.

Once a bearing is greased with a quality lubricant, it can in some cases increase the performance of the bearing up to eight times as long as it is maintained with regular intervals of grease. In other words a non-reduced maintenance application, but possible longer life. This could be helpful in northern climates where salt and other de-icing

solutions are applied to roads. These contaminants can migrate into the bushing reducing the lubrication qualities.

For higher performance, a premium grease such as SuperLube Synthetic Grease with Syncolon (PTFE) from McMaster Carr as part number 1378K33, or a number of DuPont Krytox products are available.

There are two choices that would work best for those end users that have a severe application where a lubricant can increase their bushing life. They can request an SP application where we can design pins that can be drilled for grease fittings. Or they can apply an anti-seize compound such as "Molypaste" to the pins. This usually lasts for long periods of time and resists penetration of road wash. An anti-seize compound containing metal oxides should not be used as they contain abrasives that can wear away at the bushing liner.

In either case the end user should be aware of proper lubrication methods to avoid getting the opposite effect they are trying to achieve.



# WALTCO TECH TIPS

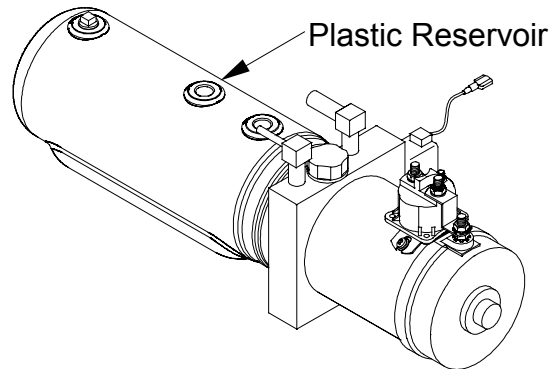
Date: 1/16/04  
No. TT040002  
Model: F, C, & E  
EO No. EO5130

## SUBJECT: New Plastic Pump Reservoir for F, C, & E Series

Effective March 2004

### New Reservoir

- Beginning in March 2004, the F, C, & E Series of Liftgates will come with a Plastic Pump Reservoir
- There are many advantages associated with using a Plastic Reservoir



GR00824

### Impact Resistance

- The new Plastic Reservoir has been Impact tested and is as strong or stronger than the Steel Reservoir

### Corrosion Resistance

- Plastic is not effected by corrosive agents such as road salt

### Transparency

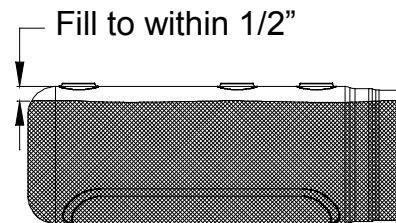
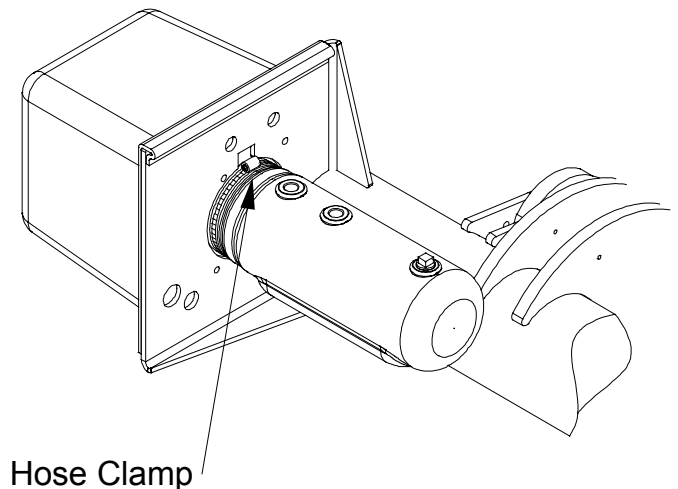
- The Reservoir is translucent, making it easy to see the fluid level in the Reservoir
- Makes checking fluid level easier than with a Sight Glass and requires no removal of Cover or Fluid Fill Cap

### Replacement/Cleaning

- The Reservoir is attached using a Hose Clamp
- Makes removing the Reservoir for replacement or cleaning easier

### Reduced Condensation

- Plastic Reservoirs have less tendency to create condensation than steel in cold weather



GR00825

## Tallmadge

Ser No	Date
108000	01/83
109000	03/83
120000	05/83
121000	07/83
122000	09/83
123000	10/83
124000	12/83
125000	01/85
126000	02/84
127000	04/84
128000	05/84
129000	06/84
140000	08/84
141000	09/84
142000	10/84
143000	11/84
144000	12/84
145000	02/85
146000	03/85
147000	05/85
148000	06/85
149000	07/85
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161000	10/85
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167000	06/86
168000	06/86
169000	08/86
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202000	01/88
203000	02/88
204000	03/88
205000	04/88
206000	05/88

Ser No	Date
207000	07/88
208000	08/88
209000	10/88
220000	11/88
221000	12/88
222000	01/89
223000	03/89
224000	04/89
225000	05/89
226000	06/89
227000	08/89
228000	10/89
229000	11/89
240000	01/90
241000	02/90
242000	07/90
243000	04/90
244000	05/90
245000	07/90
246000	09/90
247000	12/90
248000	12/90
249000	02/91
260000	04/91
261000	05/91
262000	08/91
263000	10/91
264000	12/91
265000	02/92
266000	03/92
267000	05/92
268000	06/92
269000	08/92
280000	09/92
281000	11/92
282000	12/92
283000	02/93
284000	03/93
285000	04/93
286000	06/93
287000	07/93
288000	08/93
289000	10/93
300000	11/93
301000	02/94
302000	02/94
303000	03/94
304000	04/94
305000	05/94

Ser No	Date
306000	08/94
307000	09/94
308000	10/94
309000	10/94
320000	12/94
321000	01/95
322000	03/95
323000	04/95
324000	06/95
325000	07/95
326000	09/95
327000	09/95
328000	11/95
329000	01/96
340000	02/96
341000	03/96
342000	04/96
343000	05/96
344000	07/96
345000	08/96
346000	10/96
347000	12/96
348000	03/97
349000	03/97
360000	04/97
361000	05/97
362000	06/97
363000	07/97
364000	08/97
365000	10/97
366000	11/97
367000	12/97
368000	01/98
369000	06/98
380000	03/98
381000	06/98
382000	06/98
383000	08/98
384000	08/98
385000	11/98
386000	12/98
387000	12/98
388000	01/99
389000	04/99
400000	02/99
401000	03/99
402000	05/99
403000	05/99
404000	06/99

Ser No	Date
405000	08/99
406000	08/99
407000	10/99
408000	11/99
409000	11/99
420000	12/99
421000	12/99
422000	04/00
423000	03/00
424000	03/00
425000	04/00
426000	05/00
427000	07/00
428000	08/00
429000	08/00
440000	09/00
441000	11/00
442000	12/00
443000	02/01
444000	04/01
445000	05/01
446000	09/01
447000	09/01
448000	11/01
449000	01/02
460000	04/00
461000	05/02
462000	06/02
463000	09/02
464000	10/02
465000	12/02
466000	01/03
467000	02/03
468000	05/03
469000	05/03
480000	07/03
481000	08/03
482000	10/03
483000	11/03
484000	01/04
485000	02/04
486000	02/04
487000	03/04

\*All Serial Number  
Dates are approximate

**Gardena**

Ser No	Date
116000	01/83
117000	05/83
118000	09/83
119000	12/83
130000	03/84
131000	05/84
132000	07/84
133000	10/84
134000	12/84
135000	03/85
136000	04/85
137000	07/85
138000	10/85
139000	11/85
150000	03/86
151000	05/86
152000	09/86
153000	12/86
154000	03/87
155000	05/87
156000	07/87
157000	10/87
158000	11/87
159000	12/87
170000	02/88
171000	04/88

Ser No	Date
172000	06/88
173000	08/88
174000	10/88
175000	11/88
176000	01/89
177000	03/89
178000	04/89
179000	07/89
190000	09/89
191000	11/89
192000	01/90
193000	03/90
194000	05/90
195000	07/90
196000	10/90
197000	12/90
198000	03/91
199000	06/91
210000	09/91
211000	12/91
212000	04/92
213000	06/92
214000	09/92
215000	12/92
216000	02/93
217000	05/93

Ser No	Date
218000	08/93
219000	12/93
230000	02/94
231000	05/94
232000	08/94
233000	10/94
234000	12/94
235000	02/95
236000	05/95
237000	08/95
238000	11/95
239000	01/96
250000	03/96
251000	06/96
252000	09/96
253000	12/96
254000	03/97
255000	05/97
256000	08/97
257000	10/97
258000	01/98
259000	03/98
270000	05/98
271000	07/98
272000	10/98

Ser No	Date
273000	12/98
274000	02/99
275000	04/99
276000	06/99
277000	08/99
278000	10/99
279000	12/99
290000	02/00
291000	04/00
292000	06/00
293000	08/00
294000	11/00
295000	02/01
296000	05/01
297000	07/01
298000	09/01
299000	01/02
310000	04/02
311000	07/02
312000	10/02
313000	01/03
314000	04/03
315000	07/03
316000	11/03
317000	03/04

**\*All Serial Number  
Dates are approximate**

**Shipped From Warehouses****Marietta (Georgia)**

Ser No	Date
M1000	12/87
M1100	12/88
M1500	04/89
M2000	03/90
M2500	12/90
M3000	09/91
M3500	07/92
M4000	04/93
M4500	02/94
M5000	06/94
M5500	11/94
M6000	04/95
M6500	09/95
M7000	04/96
M7500	10/96
M8000	04/97
M8500	09/97

Ser No	Date
M9000	02/98
M9500	06/98
M10000	09/98
M10500	01/99
M11000	04/99
M11500	08/99
M12000	01/00
M12500	09/00
M13000	10/00
M13500	02/01
M14000	07/01
M14500	01/02
M15000	06/02
M15500	01/03
M16000	07/03
M16500	11/03
M17000	03/04

**Others**

Ser No	Date
D1000	01/91
D2000	06/92
D3000	03/94
D4000	03/95
D5000	11/96
D6000	04/98
D7000	04/99
F1000	02/00
S1000	04/00
A1000	04/00
T8000	05/00
T9000	09/02