



EM-Series / EMTC 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.

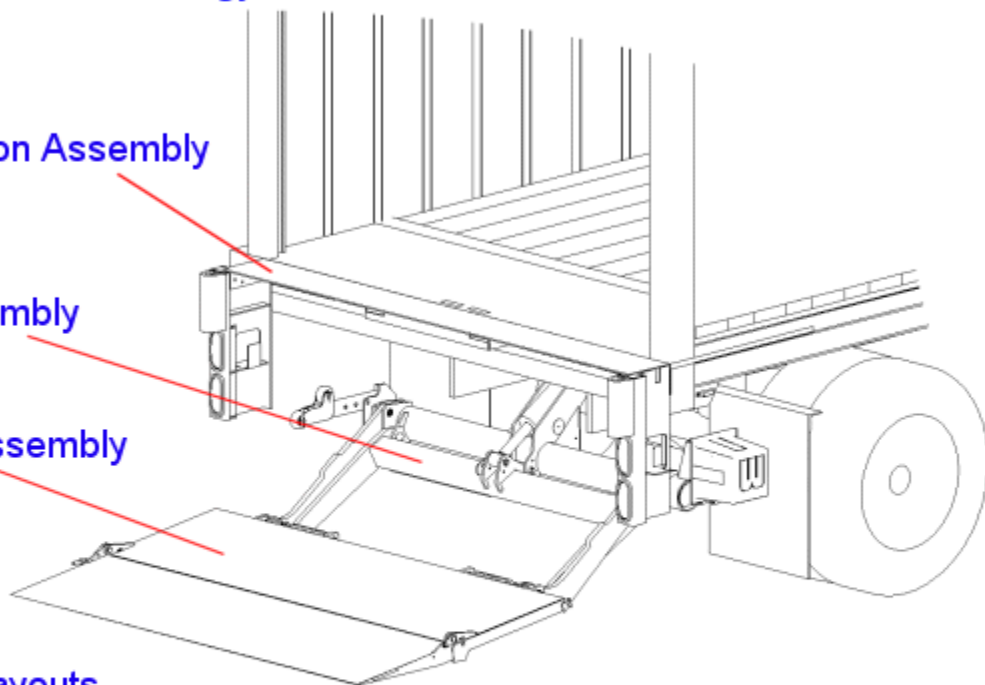
EM-Series / EMTC Series

[EM Liftgate Terminology](#)
[EMTC Liftgate Terminology](#)

[Bed Extension Assembly](#)

[Mount Assembly](#)

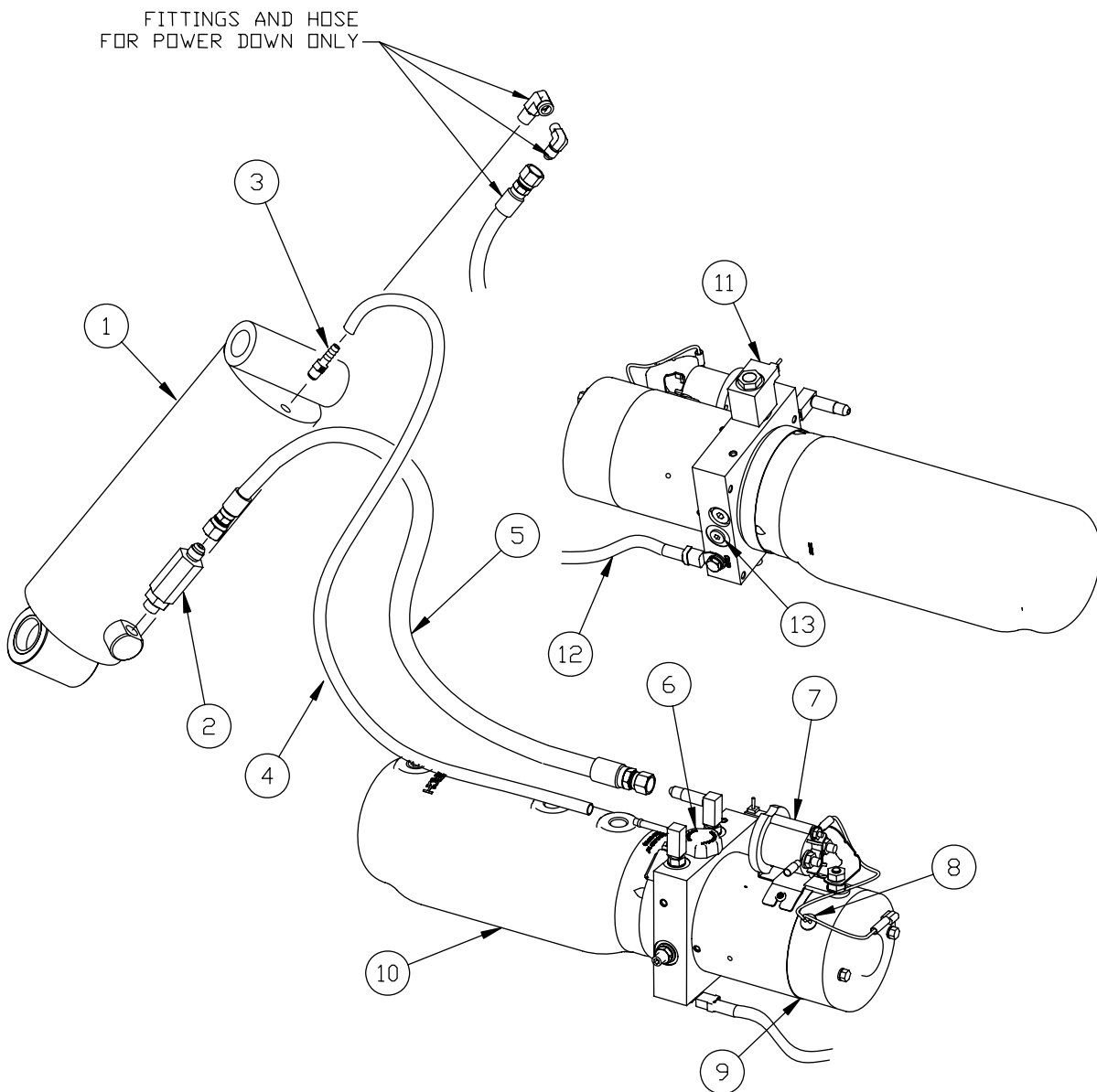
[Platform Assembly](#)



[Hydraulic Layouts](#)
[Electric Layouts, Schematics,](#)
[Pumps & Cylinders](#)
[Tech Tips](#)

EM Series Liftgate Terminology

- | | |
|---|---|
| <ol style="list-style-type: none">1. Hydraulic Cylinder2. Flow Control Valve3. Return Line Barbed Fitting (Gravity Down)4. Return Line (Gravity Down)5. Raise Hose Assembly6. Breather Cap7. Pump Unit Starter Solenoid | <ol style="list-style-type: none">8. Thermal Switch (inside Motor)9. Pump Unit Motor10. Reservoir11. Lowering Valve Coil12. Ground Cable13. Drain Plug |
|---|---|

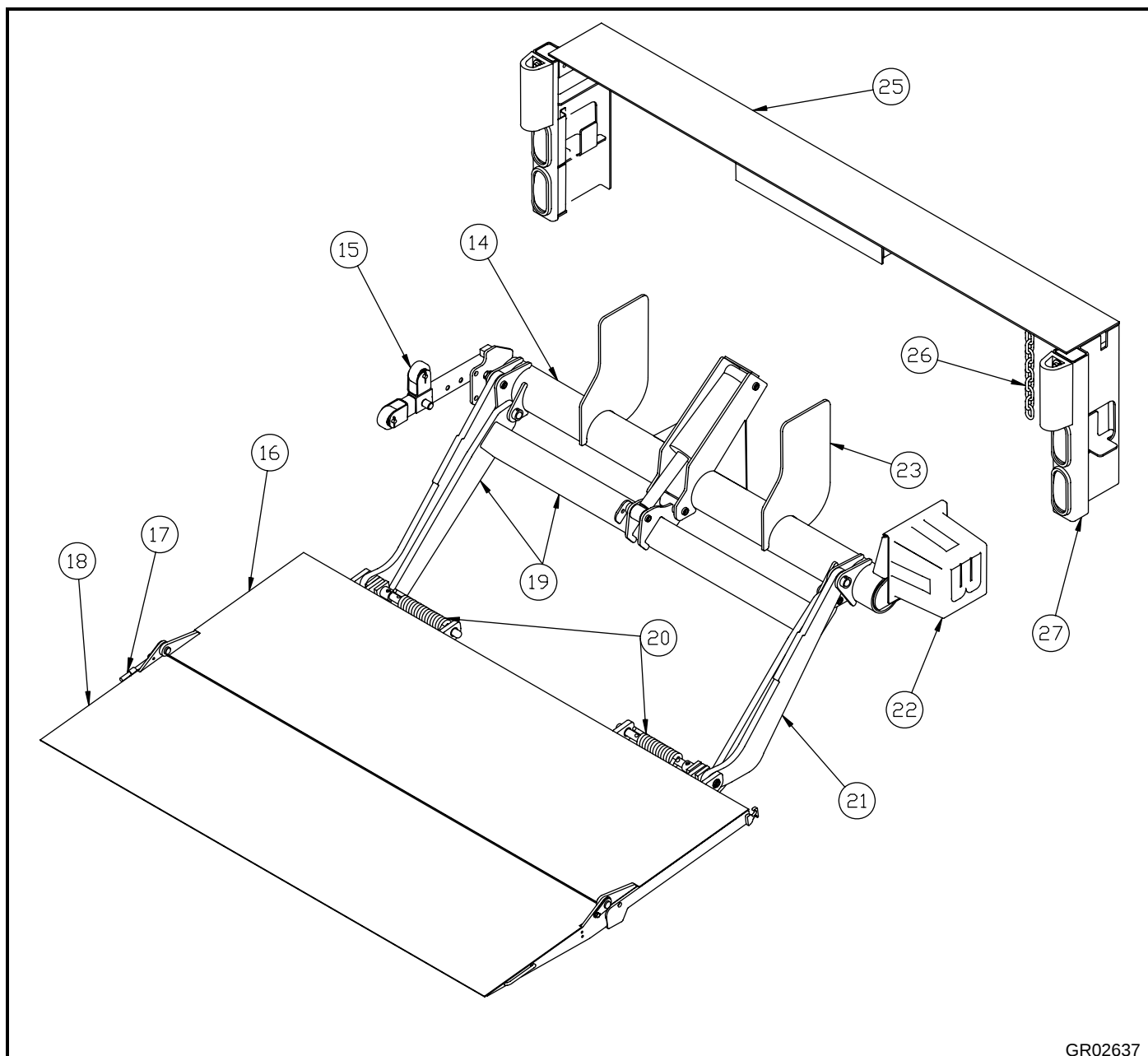


GR02636

EM Series Liftgate Terminology

- 14. Mount Tube Assembly
- 15. Parting Bar Assembly
- 16. Deck Assembly
- 17. Torsion Bar
- 18. Deck Extension Assembly
- 19. Lift Arm Assembly

- 20. Folding Assist Springs
- 21. Parallel Arm
- 22. Pump Cover
- 23. Mount Plate
- 24. Spec Tag (see following page)
- 25. Bed Extension
- 26. Transit Chain
- 27. Dock Bumper



GR02637

EM Series Liftgate Terminology

Explanation of Specification Tag

Model Name	Description	Capacity
EM	Single Cylinder	2500 lb.
EM	Single Cylinder	3000 lb.

MODEL NAME

RATED CAPACITY

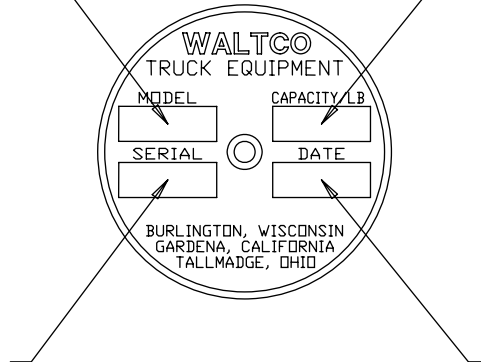
Based on an evenly distributed load on the platform flat surface.

SERIAL NUMBER

of liftgate. To be used when ordering parts or when contacting Waltco for service or warranty questions

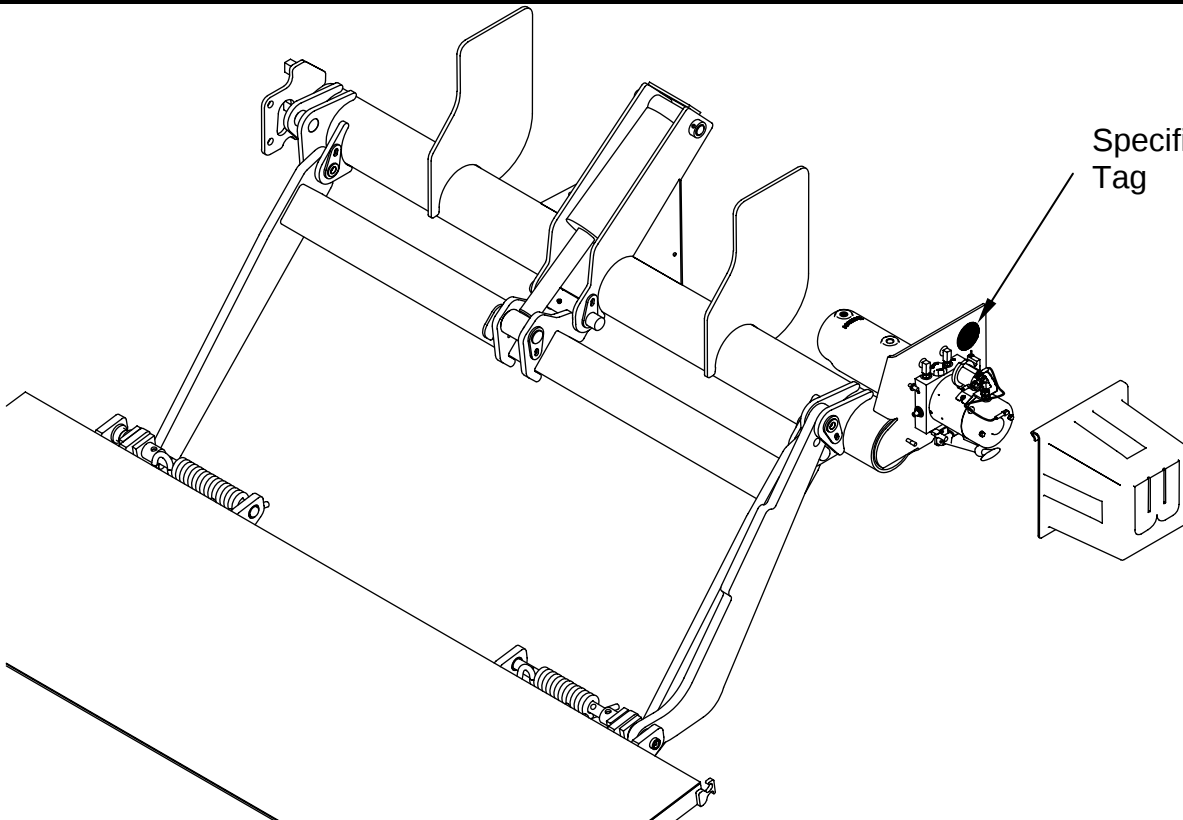
DATE OF MANUFACTURE

Month / Year



GR00241

Specification Tag

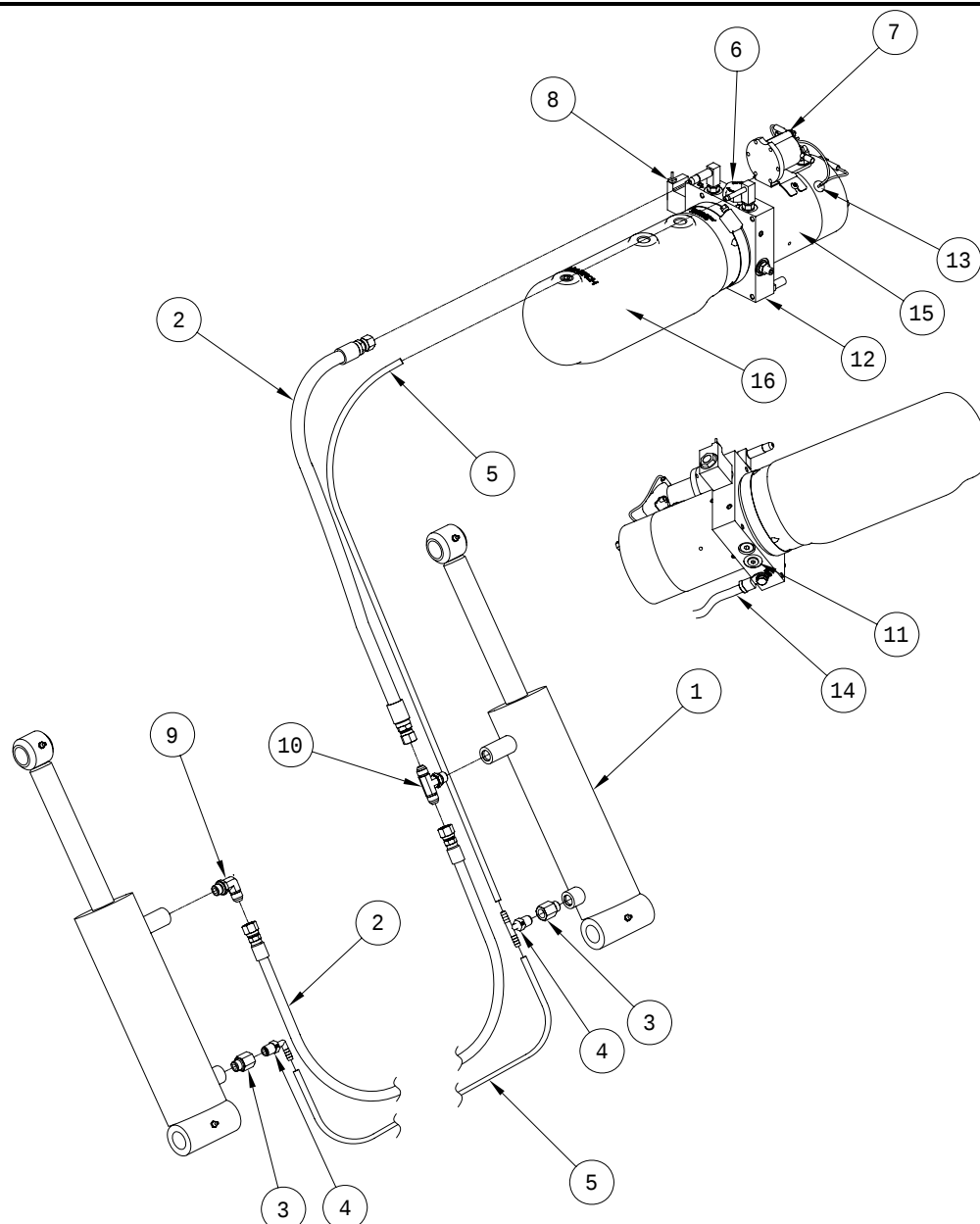


GR02773

EMTC Series Liftgate Terminology

1. Hydraulic Cylinder
2. Hose Assembly
3. Male-Female Adapter
4. Return Line Barbed Fitting
5. Return Line
6. Breather Cap
7. Pump Unit Starter Solenoid
8. Lowering Valve Coil

9. 90 Deg. Hose Fitting
10. Tee, Hose Fitting
11. Drain Plug
12. Pump
13. Thermal Switch (Inside Motor)
14. Ground Cable
15. Pump Unit Motor
16. Pump Unit Reservoir

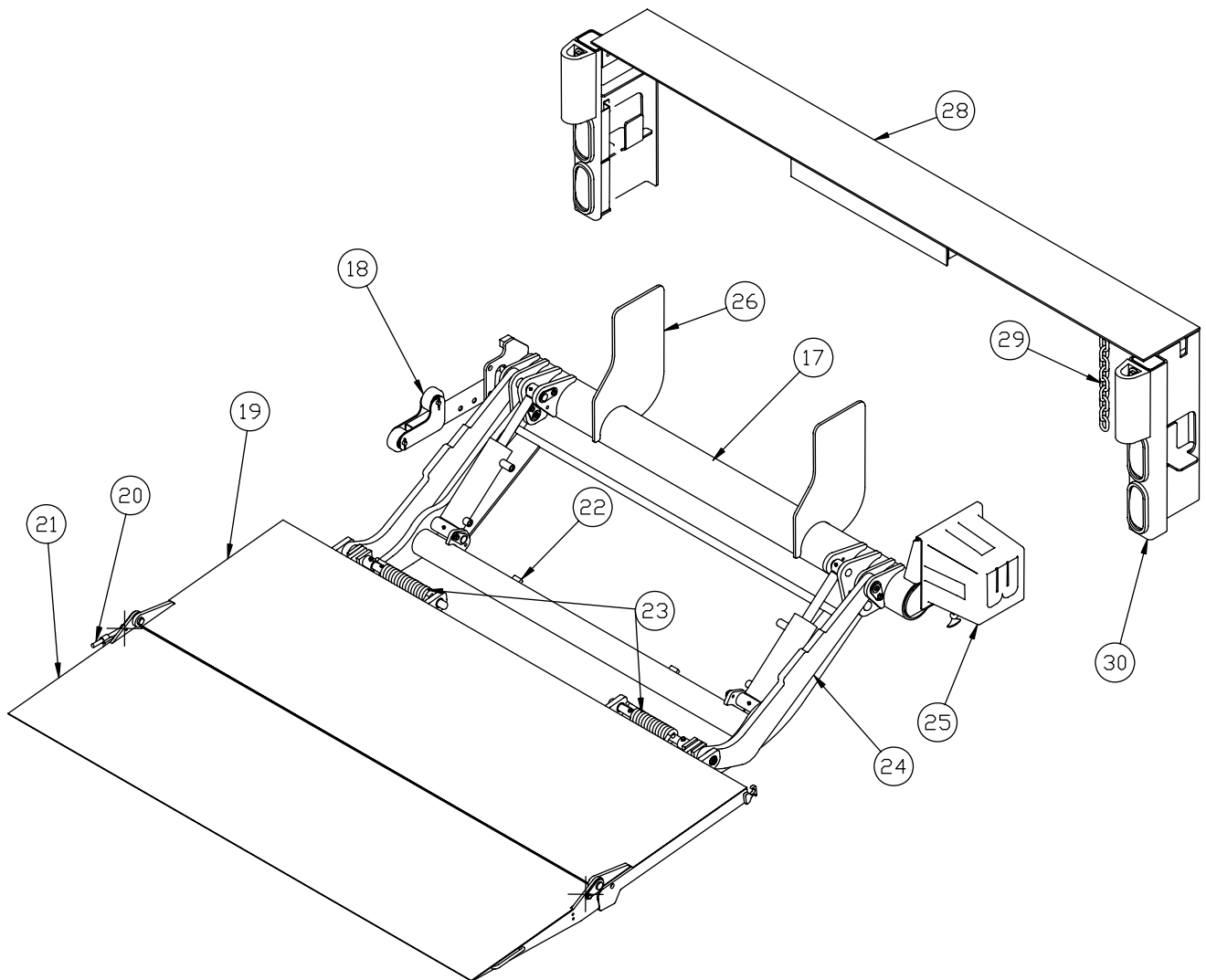


GR02641

EMTC Series Liftgate Terminology

- 17. Mount Tube Assembly
- 18. Parting Bar Assembly
- 19. Deck Assembly
- 20. Torsion Bar
- 21. Deck Extension Assembly
- 22. Lift Arm Assembly
- 23. Folding Assist Springs
- 24. Parallel Arm

- 25. Pump Cover
- 26. Mount Plate
- 27. Spec Tag (inside pump cover)
- 28. Bed Extension
- 29. Transit Chain
- 30. Dock Bumper



GR02643

EMTC Series Liftgate Terminology

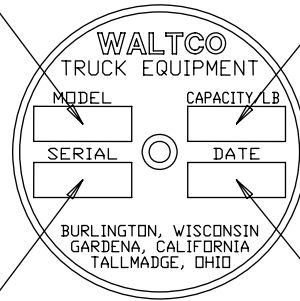
Explanation of Specification Tag

Model Name	Description	Capacity
EMTC	Twin Cylinder	2500 lb.
EMTC	Twin Cylinder	3000 lb.

MODEL NAME

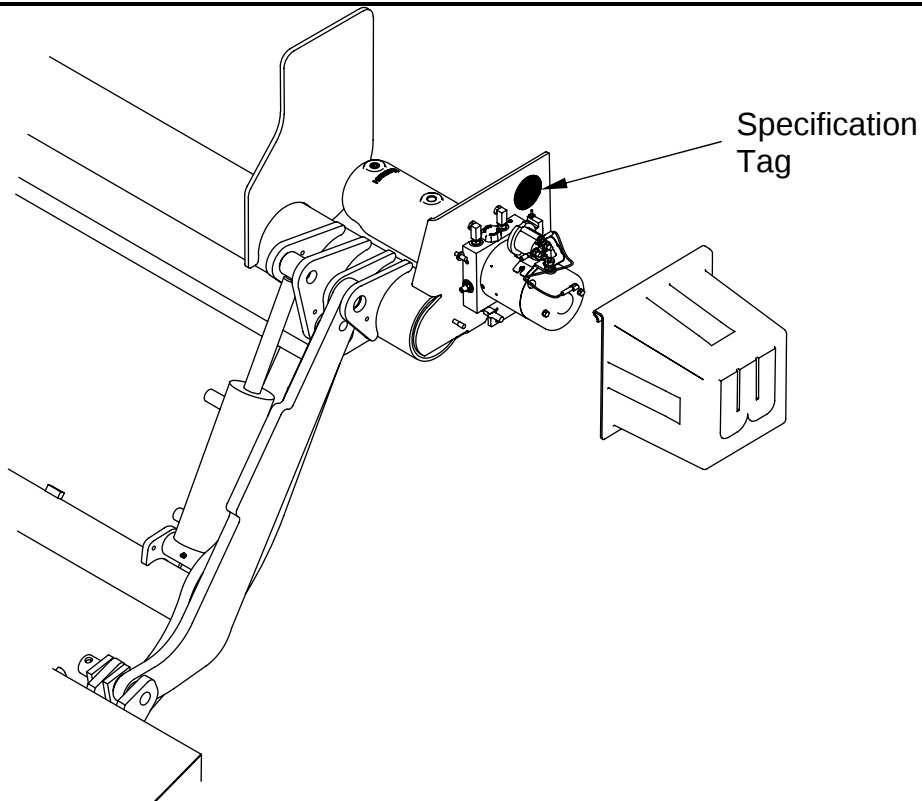
RATED CAPACITY
Based on an evenly distributed load on the platform flat surface.

SERIAL NUMBER
of liftgate. To be used when ordering parts or when contacting Waltco for service or warranty questions



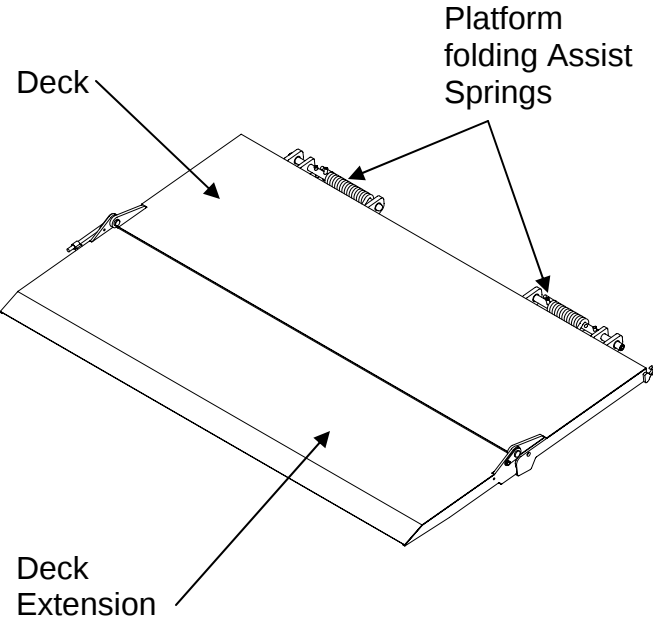
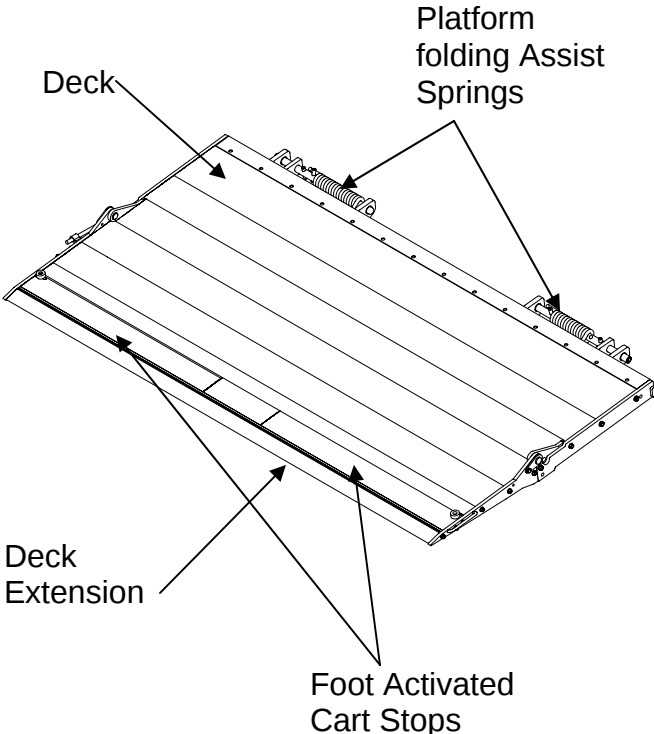
DATE OF MANUFACTURE
Month / Year

GR00241



GR02777

EM & EMTC SERIES PLATFORM ASSEMBLY

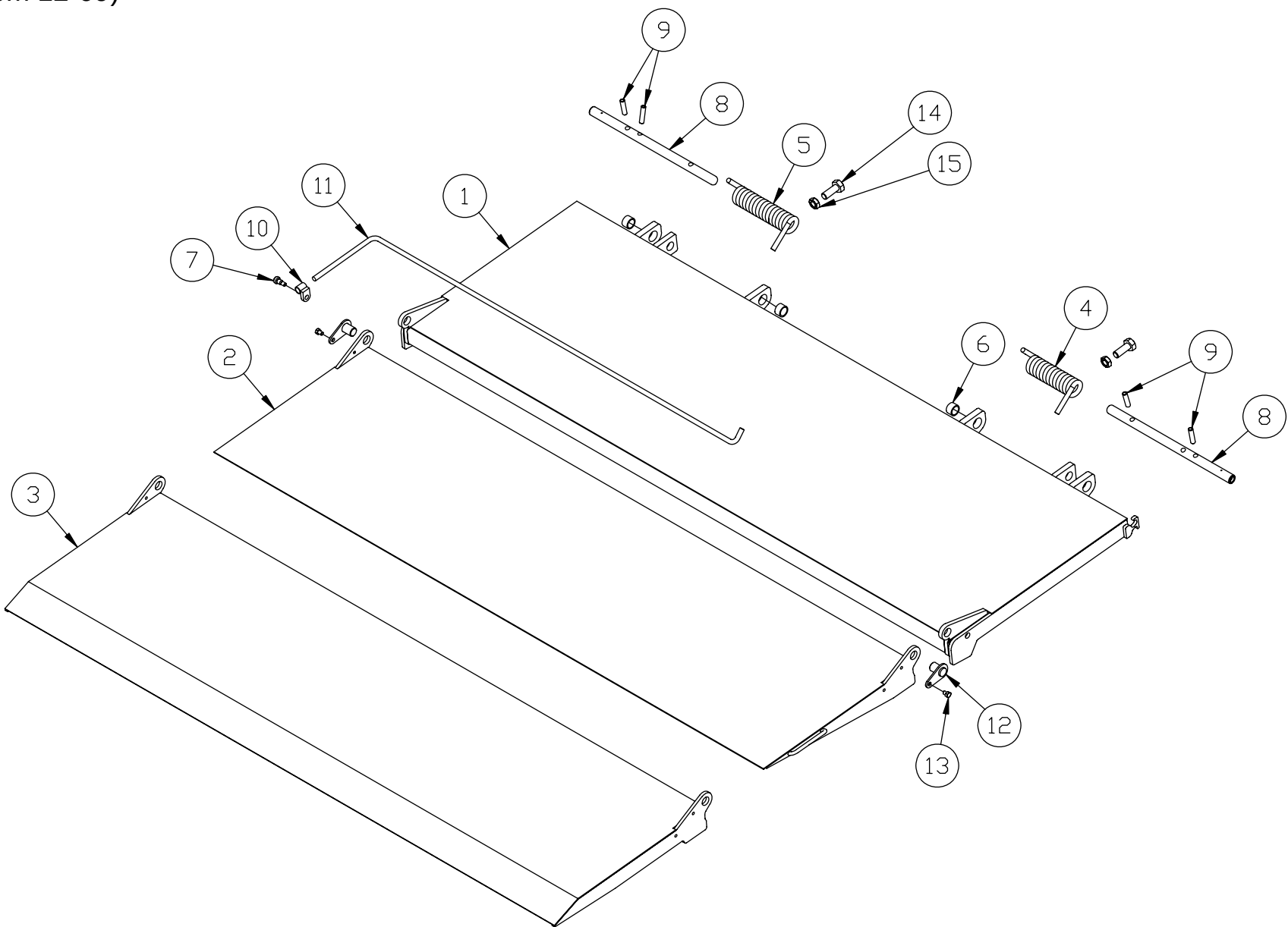
Steel Platform  Deck Platform folding Assist Springs Deck Extension	Aluminum Platform  Deck Platform folding Assist Springs Deck Extension Foot Activated Cart Stops
Common Features • Wide arm design • Platforms are 84" Wide • Platform depths are: 40" + 4" Ramp 46" + 4" Ramp 44" Wedge 50" Wedge • Platforms available in Steel and Aluminum • Two assist springs • Foot Activated Split Cart Stops (Aluminum Deck Extensions Only) • Available in two Lifting Capacities: - EM-25 – 2500 lb. - EM-30 – 3000 lb. • Torsion assisted Deck Extension folding	
Steel Platform PM-782 Built from 12-09	Aluminum Platform PM-791 Built from 1-10

Rev. 01 1/11

[Click here for list of liftgate serial numbers, organized by approximate ship dates.](#)

PLATFORM ASSEMBLY – STEEL

(Built from 12-09)



WALTCO LIFT CORP.
EM, EMTC

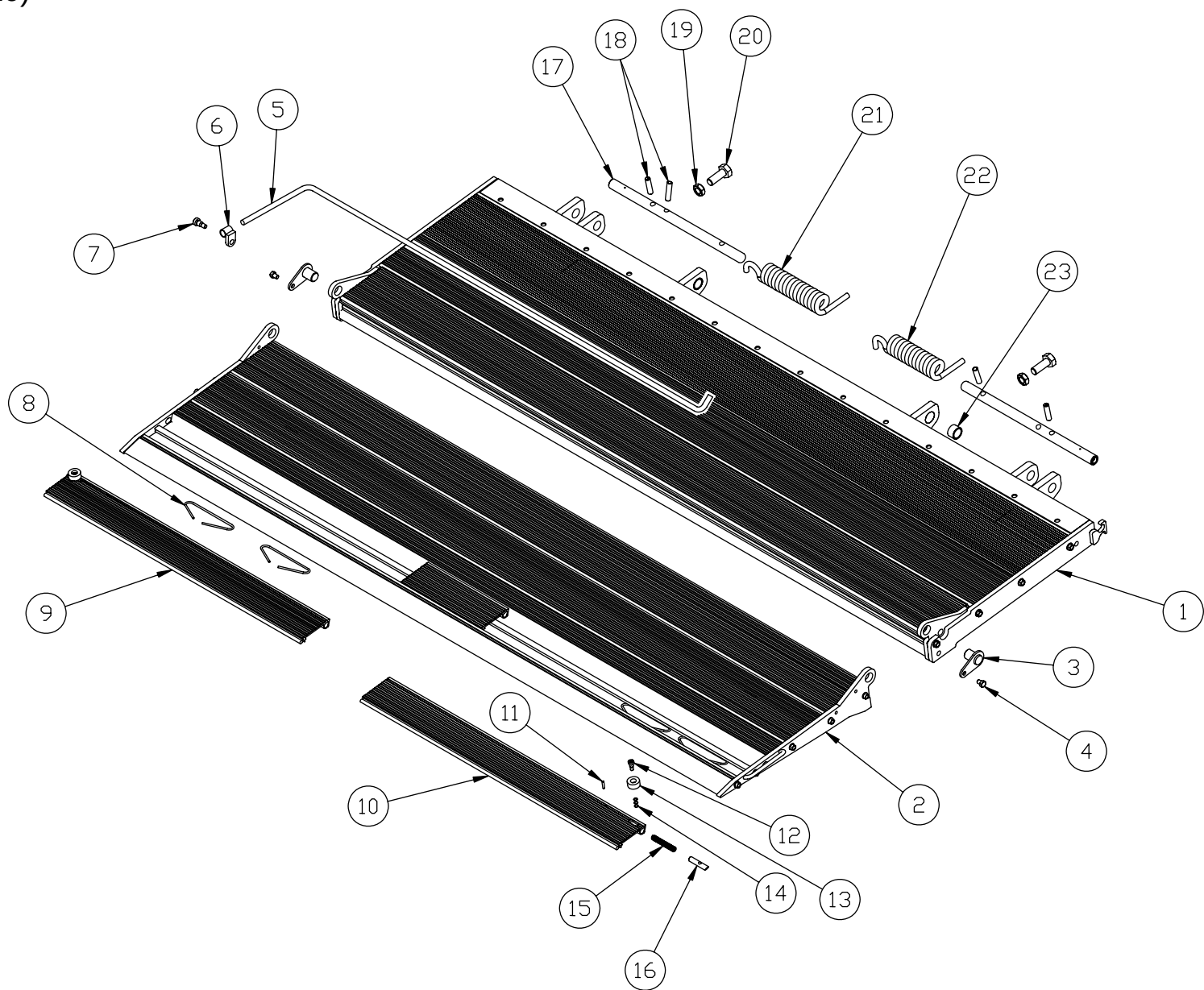
REVISED: 9-20-10
E.O. 6309JJ
REV. 04

PM-782

ITEM	PART NUMBER	44" WEDGE 26410012	50" WEDGE 26410011	40"+4" 26410002	46"+4" 26410001	DESCRIPTION
1	26411001		1		1	Deck Weldment, 50"
	26411002	1		1		Deck Weldment, 44"
2	26413011		1			Deck Extension Weldment, 50" Wedge
	26413012	1				Deck Extension Weldment, 44" Wedge
3	26413001				1	Deck Extension Weldment, 46+4
	26413002			1		Deck Extension Weldment, 40+4
4	22114300	2	1	2	1	Torsion Spring, Red End
5	21514301		1		1	Torsion Spring, Green End
6	10010187 ^A	2	2	2	2	Bearing, 1" ID x 3/4" Lg.
7	7500019-3	1	1	1	1	Socket Head Shoulder Bolt, 1/2" x 1/2"
8	26412001 ^B	2	2	2	2	Pin, Deck Spring w/ Grease Fitting
9	75089542	4	4	4	4	Coil Spring, 1/2" Dia. x 2" Lg.
10	26417301	1	1	1	1	Torsion Bar Anchor
11	22517100	1	1	1	1	Torsion Bar, 1/2"
12	1000101-6	2	2	2	2	Pin Weldment, 1" x 1-1/4"
13	75086053	2	2	2	2	Hex Bolt, w/ Vibraseal Thread Locking
14	7500010-30	2	2	2	2	Hex Bolt, 3/4-10 x 2" Lg. Grade 5
15	75085015	2	2	2	2	Hex Jam Nut, 3/4-10

^A Included in Bearing Replacement Kits 80001283 (EM) & 80001284 (EM TC)
^D Included in Pin Replacement Kits 80001285 (EM) & 80001286 (EM TC)

ALUMINUM PLATFORM ASSEMBLIES
ALUM DECK EXTENSION + STEEL DECK ASSEMBLIES
(Built from 1-10)



WALTCO LIFT CORP.
EM, EMTC

REVISED: 9-20-10
E.O. 6309JJ
REV. 03

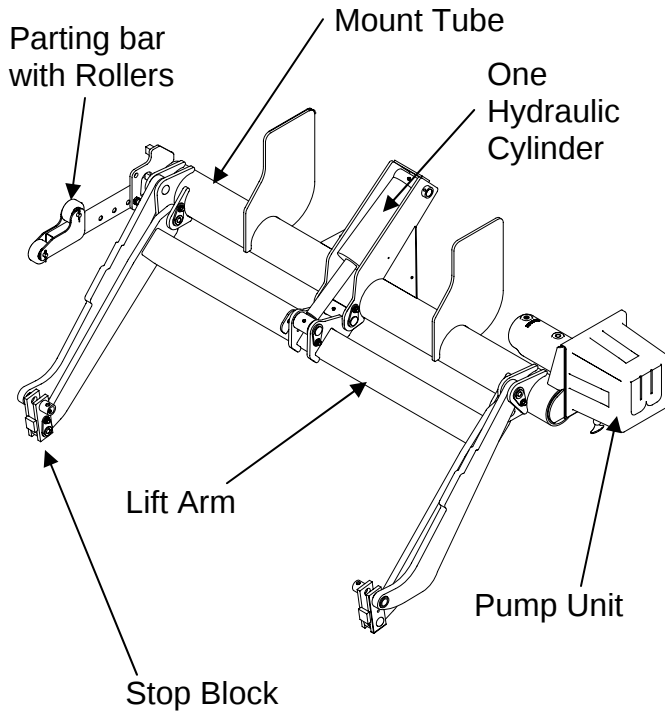
PM-791

ITEM	PART NUMBER	44" ALUM WEDGE 26410014	50" ALUM WEDGE 26410013	44" ALUM/STEEL WEDGE 26410016	50" ALUM/STEEL WEDGE 26410015	DESCRIPTION
1	26411012		1			Deck, 50" Alum
	26411011	1				Deck, 44" Alum
	26411001				1	Deck, 50" Steel
	26411002			1		Deck, 44" Steel
2	26413014		1		1	Deck Extension Assy, 50" Alum Wedge
	26413013	1		1		Deck Extension Assy, 44" Alum Wedge
3	1000101-6	2	2	2	2	Pin Assy
4	75086053	2	2	2	2	Hex Bolt, w/Vibraseal Thread Locking
5	26317100				1	Torsion Bar, 3/8"
	26417702		1			Torsion Bar, 3/8"
6	26417301		1		1	Torsion Bar Anchor
7	7500019-3		1		1	Socket Head Shoulder Bolt, 1/2" x 1/2"
8	42668440	4	4	4	4	Spring, Cart Stop
9	26414801 ^A	1	1	1	1	Cart Stop Assy Complete, Curbside
	26414851 ^A	1	1	1	1	Cart Stop Assy Complete, Street Side
10	42669012	1	1	1	1	Cart Stop, Curbside
	42669011	1	1	1	1	Cart Stop, Street Side
11	75089591	2	2	2	2	Spring Pin, 3/16" Dia x 7/8" Lg.
12	7500019-4	2	2	2	2	Socket Head Shoulder Bolt, 3/8" x 3/8"
13	42669299	2	2	2	2	Roll Stop
14	42669286	6	6	6	6	Shim
15	75088268	2	2	2	2	Spring, Cart Stop
16	42669014	2	2	2	2	Locking Pin, Cart Stop
17	26412001 ^C	2	2	2	2	Pin, Deck Spring w/ Grease Fitting
18	75089542 ^C	4	4	4	4	Coil Spring, 1/2" Dia x 2" Lg.
19	75085015	2	2	2	2	Hex Jam Nut, 3/4-10
20	7500010-30	2	2	2	2	Hex Bolt, 3/4-10 x 2" Lg. Grade 5
21	21514301	1		1	1	Torsion Spring, Green End
22	22114300		2		1	Torsion Spring, Red End
23	10010187 ^B	4	4	4	4	Bearing, 1" Dia x 3/4" Lg.

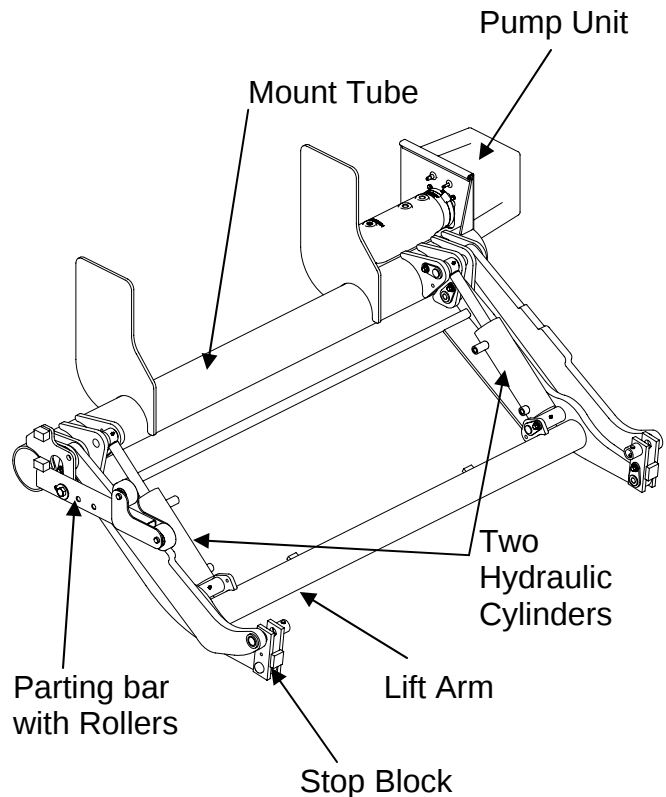
^A Includes items 10 thru 14.
^B Included in Bearing Replacement Kits 80001283 (EM) & 80001284 (EM TC)
^C Included in Pin Replacement Kits 80001285 (EM) & 80001286 (EM TC)

EM & EMTC SERIES MOUNT ASSEMBLY

EM SERIES (Single Cylinder)



EMTC SERIES (Twin Cylinder)



Common Features

- Wide arm design
- Single Cylinder design – EM or Dual Cylinder design - EMTC
- Spec tag on cylinder clevis or Pump Mount Bracket
- Round mount tube
- Square Lift Tube - EM
- Round Lift Tube - EMTC
- Two independent Stop Block Assemblies
- Parting bar with Rollers
- Reduced Installation design (Pump attached to Mount Tube)
- Available in two Lifting Capacities:
EM & EMTC-25 – 2500 lb.
EM & EMTC-30 – 3000 lb.
- Torsion assisted Deck Extension folding
- Gravity Down or Power Down Standard options

EM SERIES (Single Cylinder)

PM-788

Built from 12-09

Stop Blocks

PM-798

Built from 1-11

EMTC SERIES (Twin Cylinder)

PM-781

Built from 12-09

Stop Blocks

PM-798

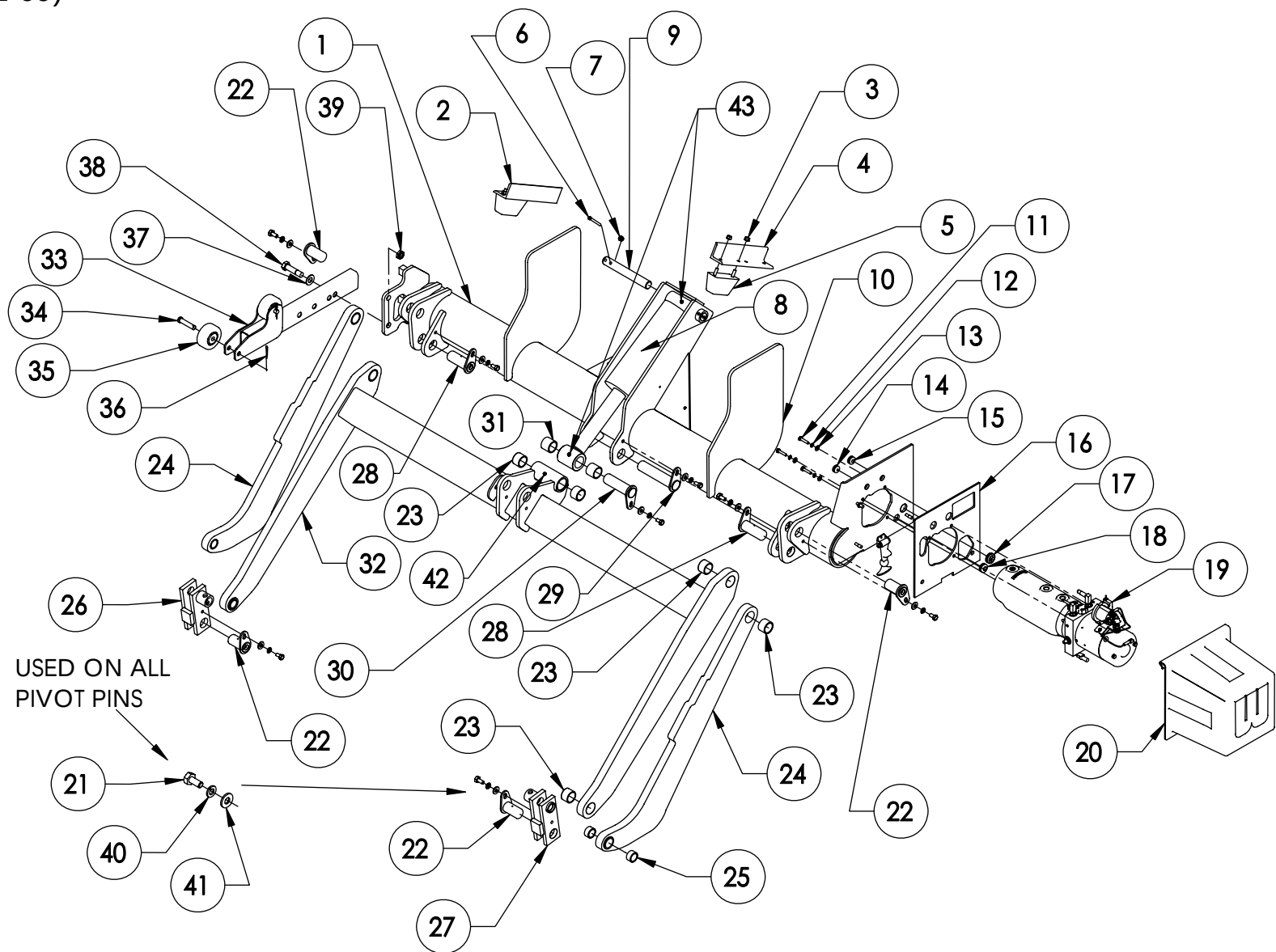
Built from 1-11

Rev. 01 1/11

[Click here for list of liftgate serial numbers, organized by approximate ship dates.](#)

MOUNT FRAME ASSEMBLY

(Built from 12-09)



WALTCO LIFT CORP.
EM

REVISED: 11-15-10
E.O. 6309JJ
REV. 05

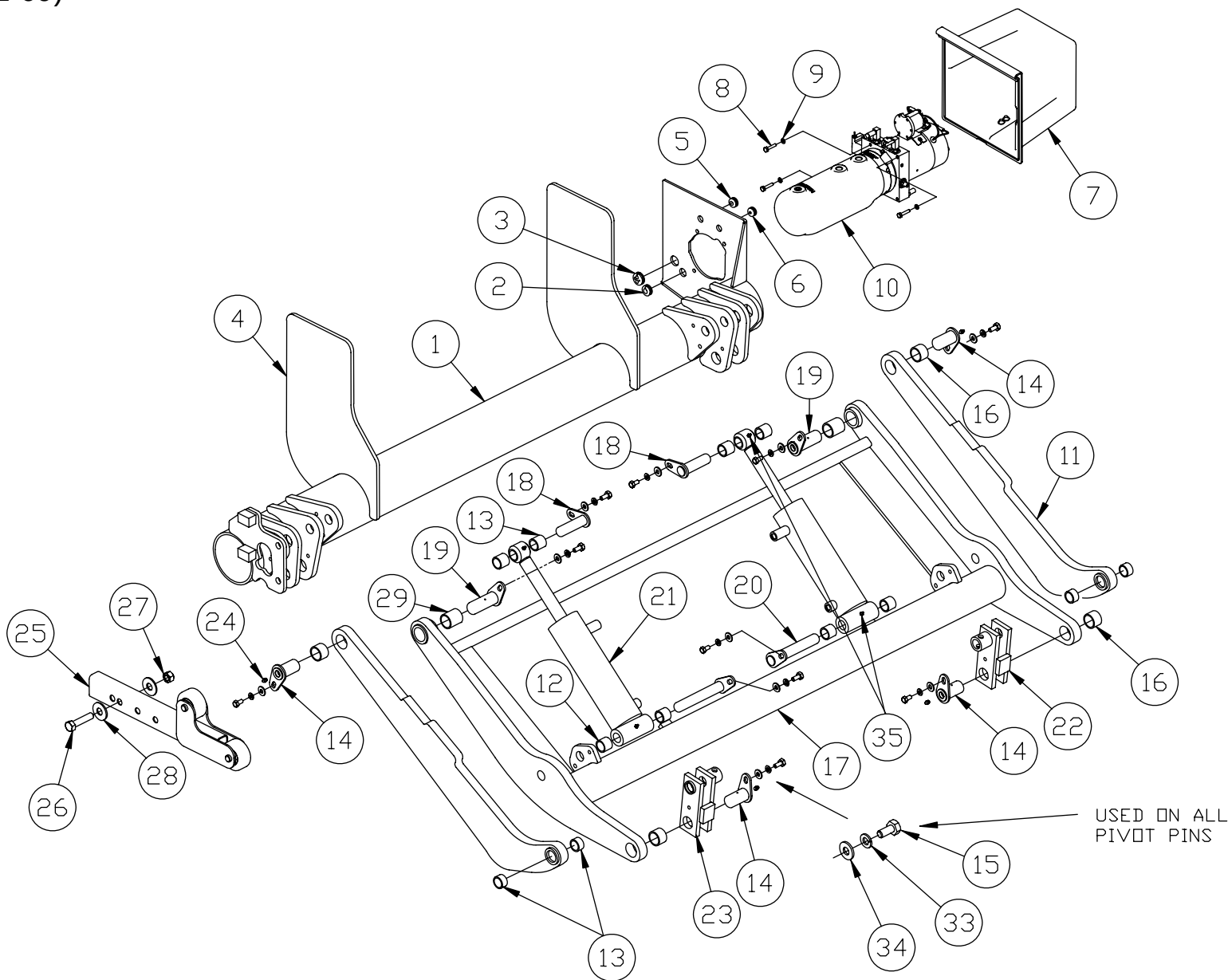
PM-788

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26420001	1	Mount Frame Weldment
2	80001298	1	Kit, Rubber Snubbers (Two each items 3-5)
3	75085003	4	Nut, 5/16-18, Serrated
4	26496101	2	Angle Bracket
5	20396000	2	Rubber Snubber
6	75086257 ^D	1	Socket Head Cap Screw, ¼-20x2.5
7	75085175 ^D	1	Locknut, ¼-20
8	26480010	1	Hydraulic Cylinder
9	1000010-08 ^D	1	Pin, 1" Dia. x 7-1/2"
10	26470101	2	Mount Plate
11	75086212	3	Hex Screw, ¼-20x1-1/4", Gr 8
12	75088079	3	¼" Lock Washer
13	75088051	3	5/16" Flat Washer
14	70401409	1 ^A	Grommet, ¼" ID
15	70401408	1 ^B	Grommet, 7/16" ID
16	10090460	1	Gasket
17	75090310	1	Grommet, Multi Hole & Split
18	75089334	1	Grommet, ½" ID
19		1	Pump Unit (See Pump PM's)
20	10090450	1	Pump Cover
21	75086055 ^D	8	Hex Screw, 3/8-16x3/4" Grade 5
22	1000022-01 ^D	4	Pin, 1-1/4" Dia x 2-1/8"
23	10010189 ^C	8	Bearing, 1-1/4" ID x 1" Long
24	26455001	2	Parallel Arm w/Bearings
25	10010187 ^C	4	Bearing, 1" ID x 3/4" Long
26	DS Stop Block	1	See PM-798
27	CS Stop Block	1	See PM-798
28	1000022-02 ^D	2	Pin, 1-1/4" Dia x 3"
29	1000021-04 ^D	1	Pin, 1-1/4" Dia x 5-1/2"
30	1000021-07 ^D	1	Pin, 1-1/4" Dia x 3-7/8"
31	100101-90 ^C	2	Bearing, 1-1/4" ID x 1-1/4" Long
32	26430001	1	Lift Arm Assy w/Bearings
	26430002		Lift Arm Assy, Under-ride, w/Bearings
33	26492001	1	Parting Bar, Complete w/Rollers
34	75089596	2	Clevis Pin
35	75081348	2	Roller
36	75084052	2	Cotter Pin
37	75088064	1	5/8" Flat Washer

ITEM	PART NUMBER	QTY	DESCRIPTION
38	35470901	1	Hex Bolt, 5/8-18
39	75085183	1	Locknut, 5/8-18, Jam
40	75088081 ^D	8	Lock Washer, 3/8"
41	75088053 ^D	8	Flat Washer, 3/8"
42	75089307	1	Grease Zerk, 5/16
43	7500045-2	2	Grease Zerk, 1/4

- ^A QTY of 1 with Gravity Down Pump, QTY of 0 with Power Down Pump
^B QTY of 1 with Gravity Down Pump, QTY of 2 with Power Down Pump
^C Included in Bearing Replacement Kit 80001283
^D Included in Pin Replacement Kit 80001285

MOUNT FRAME ASSEMBLY
(Built from 12-09)



WALTCO LIFT CORP.
EMTC

REVISED: 11-15-10
E.O. 6309JJ
REV. 05

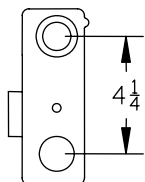
PM-781

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26520001	1	Mount Frame Weldment
2	75089334	1	Grommet, 1/2" ID
3	75090310	1	Grommet, Multi-Split
4	26470101	2	Mount Plate
5	70401408	1 ^A	Grommet, 7/16" ID
6	70401409	1 ^B	Grommet, 1/4" ID
7	10090450	1	Pump Cover
8	75086212	3	Hex Screw, ¼-20 x 1-1/4", Gr 8
9	75088079	3	Lock Washer, ¼"
10	70430550	1	Hydraulic Pump, Gravity Down
	70430560		Hydraulic Pump, Power Down
11	26455001	2	Parallel Arm Assembly
12	10010188 ^C	6	Bearing, 1" ID x 1" Lg
13	10010187 ^C	8	Bearing, 1" ID x 3/4" Lg
14	1000022-01 ^D	4	Pin Assembly, 1-1/4" x 2-1/8"
15	75088055 ^D	10	Hex Bolt, 3/8-16 x 3/4" Grade 5
16	10010189 ^C	4	Bearing, 1-1/4" ID x 1" Lg
17	26530001	1	Lift Arm Weldment
	26530002		Lift Arm Weldment, Under-ride
18	1000021-03 ^D	2	Pin, 1" x 3-1/4"
19	1000022-02 ^D	2	Pin Assembly, 1-1/4" x 3"
20	1000021-06 ^D	2	Pin, 1" x 5-7/8"
21	26580010	2	Hydraulic Cylinder
22	CS Stop Block	1	See PM-798
23	DS Stop Block	1	See PM-798
24	75089307	12	Grease Zerk Fitting
25	26492001	1	Parting Bar Assembly
26	75086236	1	Hex Bolt, 5/8-18 x 2-1/2" Lg
27	75085111	1	Nut, 5/8-18
28	75088064	2	Washer, 5/8"
32	10010186 ^C	2	Bearing, 1-1/4" ID x 1-5/8" Lg
33	75088081 ^D	10	Lock Washer, 3/8"
34	75088053 ^D	10	Flat Washer, 3/8"
35	7500045-2	4	Grease Zerk, ¼ Straight

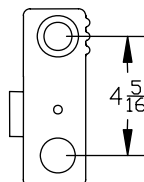
^A QTY of 2 with Power Down Pump, QTY of 1 with Gravity Down Pump
^B QTY of 0 with Power Down Pump, QTY of 1 with Gravity Down Pump
^C Included in Bearing Replacement Kit 80001284
^D Included in Pin Replacement Kit 80001286

PM-798 Stop Block Assemblies

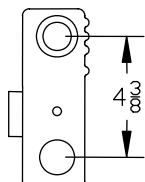
Stop Blocks shipped with liftgate are based on the depth and style of platform.



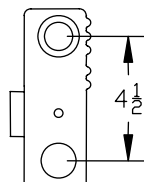
26450001 CS
26450051 DS
26451001 Kit



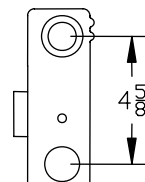
26450003 CS
26450053 DS
26451003 Kit



26450004 CS
26450054 DS
26451004 Kit



26450005 CS
26450055 DS
26451005 Kit



26450002 CS
26450052 DS
26451002 Kit

Kits include both stop blocks.

Below in **bold** indicates which stop blocks that are shipped with different platforms.

Below are stop block recommendations for different bed height ranges.

Note:

The larger the stop block hole spacing, the more tilt up the platform will achieve at bed height.

44" Deep Wedge Platform

Bed Height Range	A-Dim	Recommend Stop Blocks
56 - 55	26	26450003 & 26450053
51 - 44	24	26450004 & 26450054
44 - 36	19	26450002 & 26450052

40 + 4" Deep Platform

Bed Height Range	A-Dim	Recommend Stop Blocks
56 - 55	26	26450001 & 26450051
54 - 44	24	26450003 & 26450053
44 - 36	19	26450005 & 26450055

50" Deep Wedge Platform

Bed Height Range	A-Dim	Recommend Stop Blocks
56 - 55	26	26450001 & 26450051
54 - 44	24	26450003 & 26450053
44 - 39	19	26450005 & 26450055

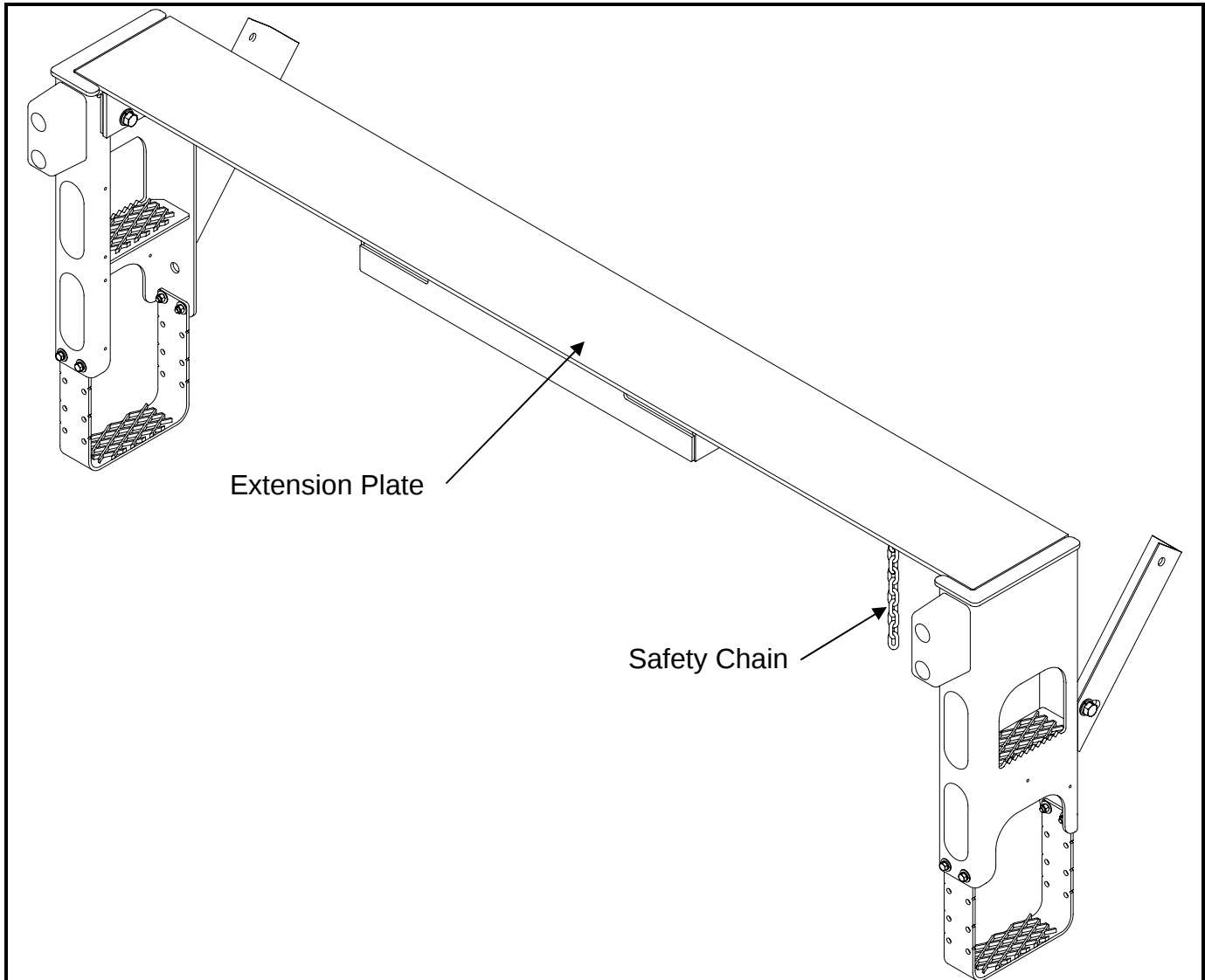
46+4" Deep Platform

Bed Height Range	A-Dim	Recommend Stop Blocks
56 - 55	26	26450001 & 26450051
54 - 44	24	
44 - 39	19	26450003 & 26450053

GR02815

REVISED 11-15-10
E.O. 6309JJ
REV 01

EM & EMTC SERIES BED EXTENSION ASSEMBLY



Common Features

- 10" deep Extension Plate
- 94" or 100" wide Extension Plate
- 1/4" thick Extension Plate standard
- 3/8" thick Reinforced Extension Plate optional
- Walk Ramp Ready option available
- Various Dock Bumper options with and without lights available

PM-783

Built from 12-09 thru 12-10

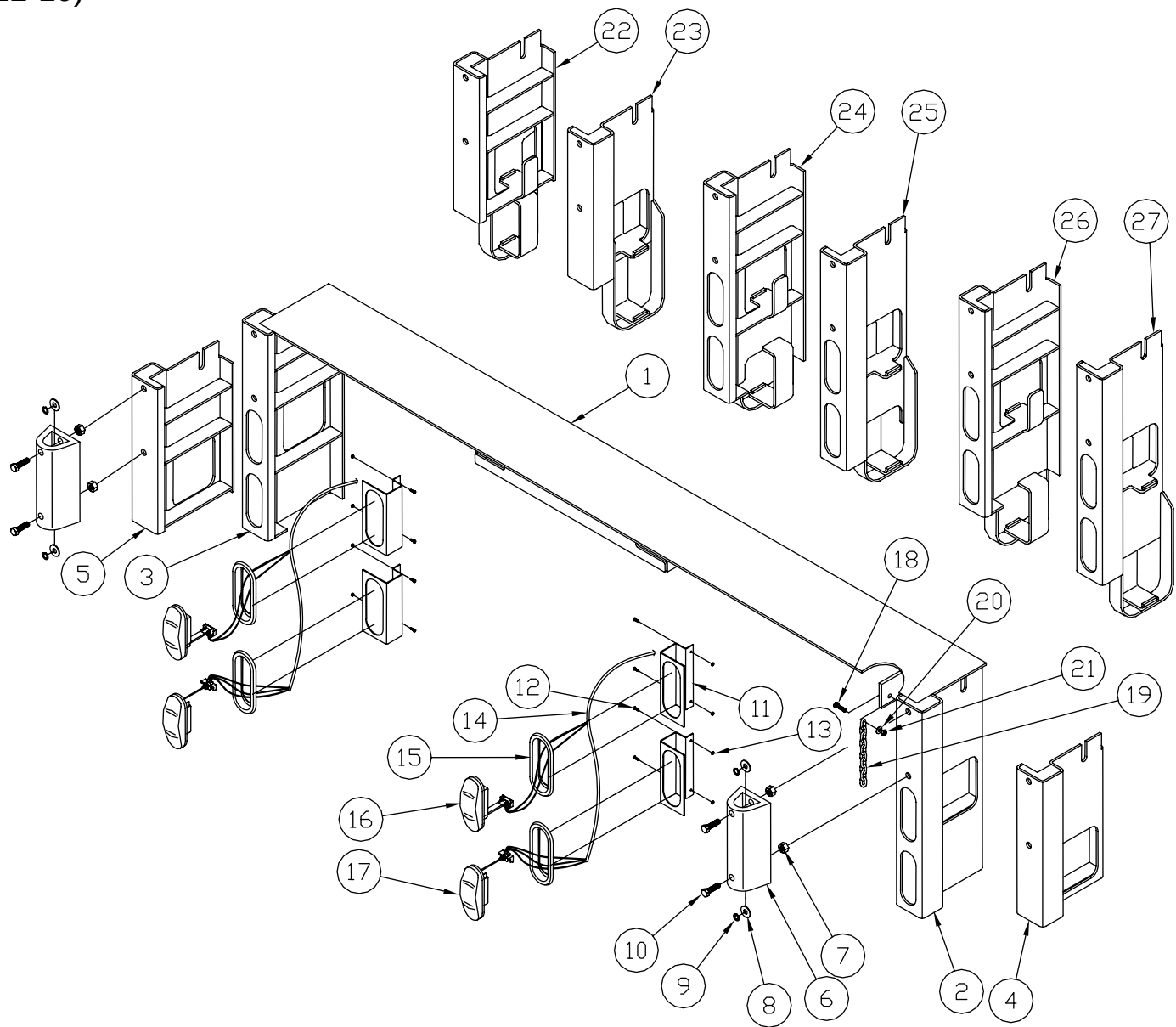
PM-799

Built from 12-10

Rev. 01 1/11

[Click here for list of liftgate serial numbers, organized by approximate ship dates.](#)

BED EXTENSION AND LIGHT KIT OPTIONS
(Built 12-09 thru 12-10)



WALTCO LIFT CORP.
EM, EMTC

REVISED: 6-7-10
E.O. 6309Y
REV. 03

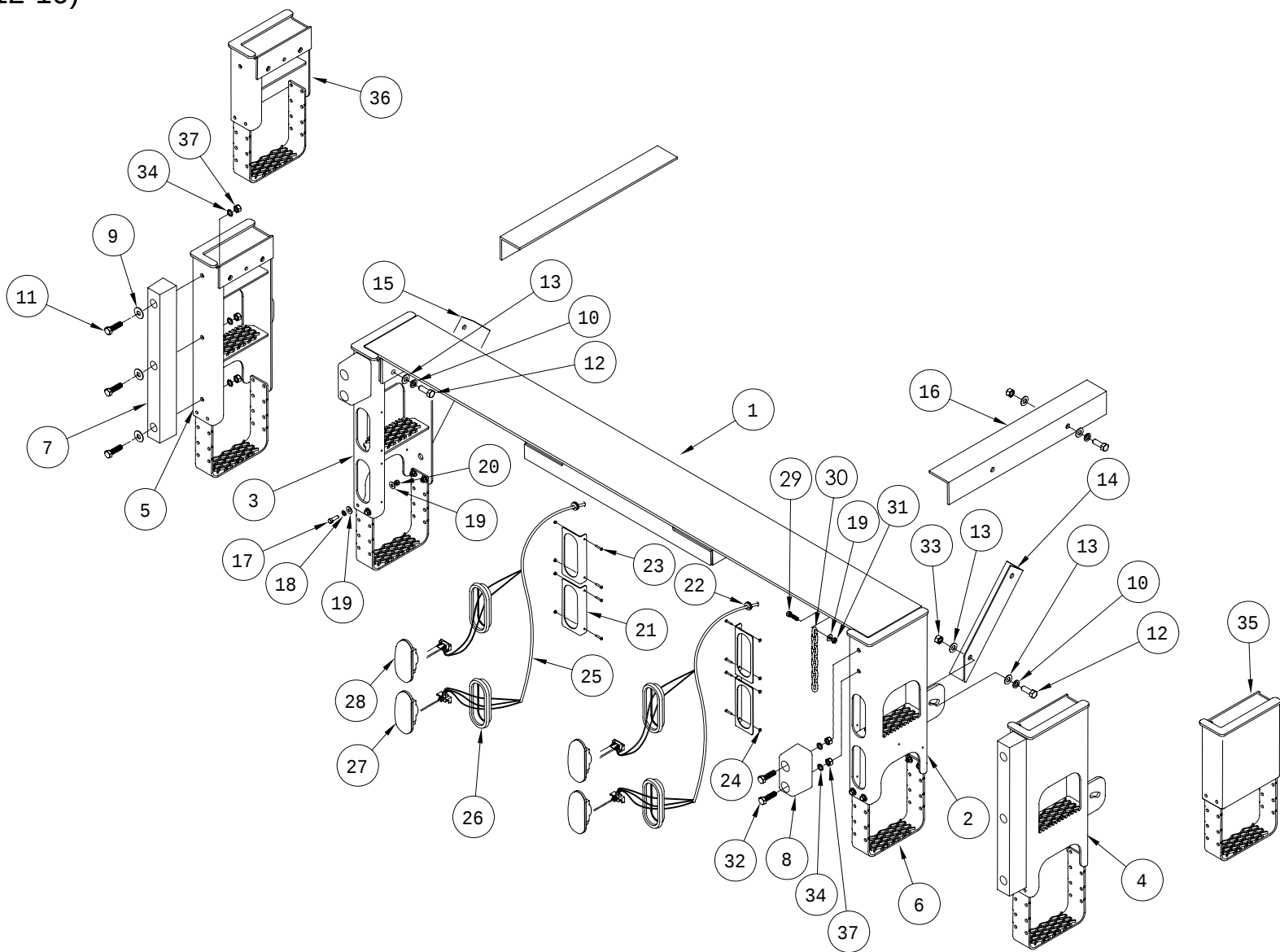
PM-783

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26460001	1	Bed Extension Complete (96" Vehicles)
	26460002		Bed Extension Complete (102" Vehicles)
	26460003		Bed Extension, Reinforced (96" Vehicles)
	26460004		Bed Extension, Reinforced (102" Vehicles)
2	22597001 ^a	1	Dock Bumper, R.H. For Lights (Option)
3	22597051 ^a	1	Dock Bumper, L.H. For Lights (Option)
4	22597002 ^b	1	Dock Bumper, R.H. (Option)
5	22597052 ^b	1	Dock Bumper, L.H. (Option)
6	26297600 ^c	2	Rubber Bumper (Option)
7	75085012 ^c	4	Hex Nut, 5/8"-11 (Option)
8	75088057 ^c	4	Washer 5/8" (Option)
9	75088085 ^c	4	Lock Washer 5/8" (Option)
10	75086155 ^c	4	Hex Bolt, 5/8"-11 x 2" lg. (Option)
11	22597102 ^{aef}	4	Tail Light Bracket (Option)
12	75086732 ^{aef}	8	Machine Screw, #10-32 x 1" lg. (Option)
13	75085000 ^{aef}	8	Hex Nut, #10-32 (Option)
14	22575200 ^{aef}	2	Harness, 2 Lamps (Option)
15	75089376 ^{aef}	4	Light Grommet (Option)
16	75089374 ^{aef}	2	Backup Light (Option)
17	75089373 ^{aef}	2	Tail Light ST & T (Option)
18	75086218	1	Hex Bolt, 3/8"-16 x 1-1/4" lg. Gr. 8
19	26498901	1	Chain
20	75088053	1	Washer, 3/8"
21	75085193	1	Nut, Locking, 3/8"-16
22	22597003 ^d	1	Dock Bumper, R.H., 2-Step (Option)
23	22597053 ^d	1	Dock Bumper, L.H., 2-Step (Option)
24	22597004 ^e	1	Dock Bumper, R.H., 2-Step For Lights <48" Bed Height (Option)
25	22597054 ^e	1	Dock Bumper, L.H., 2-Step For Lights <48" Bed Height (Option)
26	22597005 ^f	1	Dock Bumper, R.H., 2-Step For Lights >48" Bed Height (Option)
27	22597055 ^f	1	Dock Bumper, L.H., 2-Step For Lights >48" Bed Height (Option)

^a Included in Super Duty Dock Bumper W/4 Lamp Light Kits No. 22596001 and No. 22596003
^b Included in Super Duty Dock Bumper Kit No. 22596002
^c Included in Rubber Bumper Kit No. 22596011
^d Included in 2-Step Super Duty Dock Bumper Kit No. 22596006
^e Included in 2-Step Super Duty Dock Bumper W/4 Light Kits <48" Bed Height No. 22596004 and No. 22596007
^f Included in 2-Step Super Duty Dock Bumper W/4 Light Kits >48" Bed Height No. 22596005 and No. 22596008

BED EXTENSION AND LIGHT KIT OPTIONS

(Built from 12-10)



WALTCO LIFT CORP.
EM, EMTC

REVISED: 12-20-10
E.O. 6309NN
REV. 02

PM-799

ITEM	PART NUMBER	QTY	DESCRIPTION
1	26460005	1	Bed Extension, 96" Vehicles
	26460006		Bed Extension, 102" Vehicles
	26460013		Bed Extension, Walk Ramp Ready, 96"
	26460014		Bed Extension, Walk Ramp Ready, 102"
	26460020		Bed Extension, 3/8" Skin, 96"
	26460021		Bed Extension, 3/8" Skin, 102"
2	26497001	1	Dock Bumper, CS For Lights (Option)
3	26497051	1	Dock Bumper, DS For Lights (Option)
4	26497002	1	Dock Bumper, CS (Option)
5	26497052	1	Dock Bumper, DS (Option)
6	26498501	1	Stir-Up Assembly (Option)
7	26297604 ^B	2	24" Rubber Bumper, Long (Option)
8	26297603 ^A	2	6" Rubber Bumper, Short (Option)
9	75088067 ^{AB}	6	Washer, 1/2" (Option)
10	75088085 ^C	8	Lock Washer, 5/8" (Option)
11	75086110 ^B	6	Hex Bolt, 1/2"-13 x 2-1/2" Lg. (Option)
12	75086154 ^C	8	Hex Bolt, 5/8"-11 x 1-3/4" Lg. (Option)
13	75088064 ^C	12	Washer, 5/8" (Option)
14	26498101 ^C	1	Angle Support, CS (Option)
15	26498151 ^C	1	Angle Support, DS (Option)
16	26498301 ^C	2	Angle, 3" x 3" x 1/4" x 24" Lg. (Option)
17	75086218	8	Hex Bolt, 3/8"-16 x 1-1/4" (Option)
18	75088081	8	Lock Washer, 3/8" (Option)
19	75088053	17	Washer, 3/8" (Option)
20	75085096	8	Hex Nut, 3/8"-16 (Option)
21	26498201	4	Light Bracket (Option)
22	75089334	2	Grommet, 1/2" ID (Option)
23	75086732	12	Round Head Screw, #10-32 (Option)
24	75085000	12	Hex Nut, #10-32 (Option)
25	22575200	2	Harness, 2 Lamps (Option)
26	75089376	4	Light Grommet (Option)
27	75089373	2	Tail Light ST & T (Option)
28	75089374	2	Backup Light (Option)
29	7500010-26	1	Hex Bolt, 3/8"-16 x 2-1/2" Lg.
30	22598100	1	Transit Chain
31	75085193	1	Hex Lock Nut, 3/8"-16
32	7500010-23 ^A	4	Hex Bolt, 1/2"-13 x 3" Lg. (Option)
33	75085012 ^C	4	Hex Nut, 5/8"-11 (Option)
34	75088083 ^{AB}	6	Lock Washer, 1/2" (Option)

ITEM	PART NUMBER	QTY	DESCRIPTION
35	26497003	1	Dock Bumper, CS, Short
36	26497053	1	Dock Bumper, DS, Short
37	75085008	6	Hex Nut, 1/2"-13

Dock Bumpers complete w/ Stirrups and Truck Lights and mounting hardware:
2649801 CS and 26498051 DS

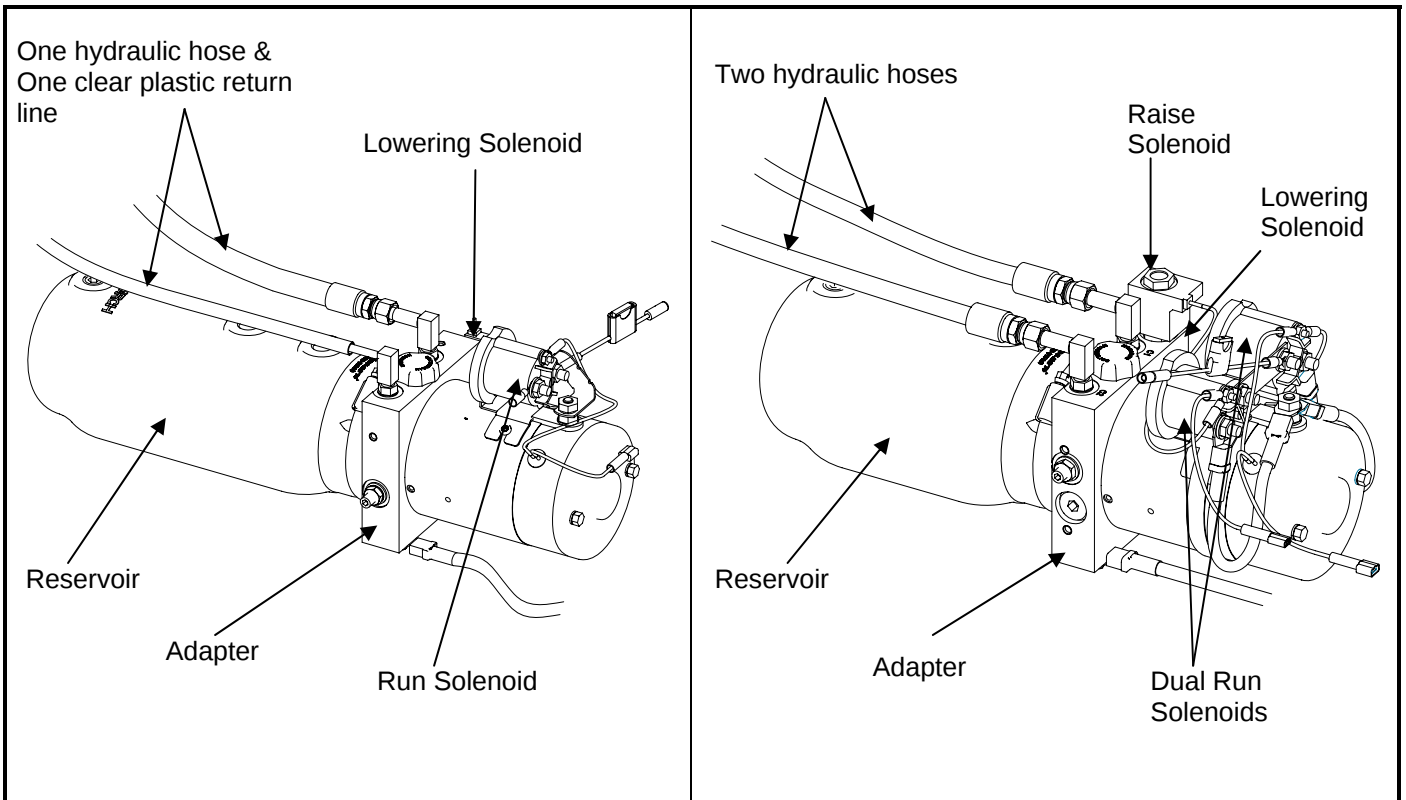
Dock Bumpers complete w/ Stirrups and Trailer Lights and mounting hardware:
26498006 CS and 26498056 DS

Dock Bumpers complete w/ Stirrups and mounting hardware:
26498002 CS and 26498052 DS

Short Dock Bumpers complete w/ Stirrups and mounting hardware:
26498003 CS and 26498053 DS

^A Included in 6" Rubber Bumper Kit 26496011
^B Included in 24" Rubber Bumper Kit 26496012
^C Included in Dock Bumper Brace (bolt-on) Kit 26496010

EM & EMTC SERIES HYDRAULICS & CONTROLS



EM & EMTC Gravity Down

EM & EMTC Power Down

Common Features

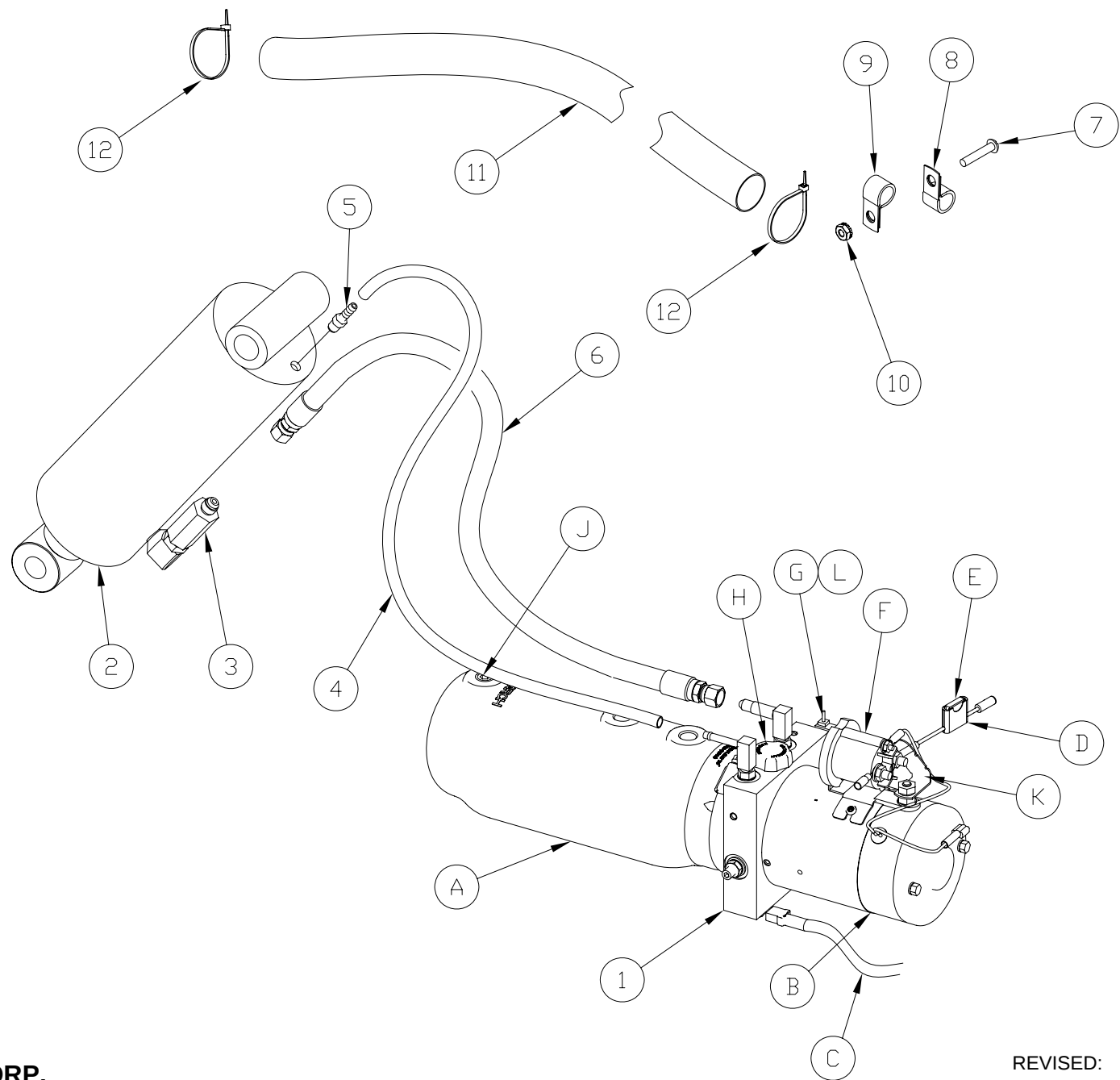
- Monarch power units
- Electric controls
- EM & EMTC Series reduced maintenance cylinders
- Pressure set at 2700 psi
- Pump mounted to curb side of liftgate mount tube
- Power Down Units use dual Starter Solenoids

	EM		EMTC	
	Gravity Down	Power Down	Gravity Down	Power Down
Hydraulic Layout	PM-789 Built from 12-09	PM-790 Built from 12-09	PM-784 Built from 12-09	PM-785 Built from 12-09
Electrical Layout & Schematic	PM-786 Built from 12-09	PM-787 Built from 12-09	PM-786 Built from 12-09	PM-787 Built from 12-09

Rev. 01 1/11

[Click here for list of liftgate serial numbers, organized by approximate ship dates.](#)

HYDRAULIC LAYOUT – GRAVITY DOWN
(Built from 12-09)



WALTCO LIFT CORP.
EM

REVISED: 3-1-11
E.O. 6469
REV. 03

PM-789

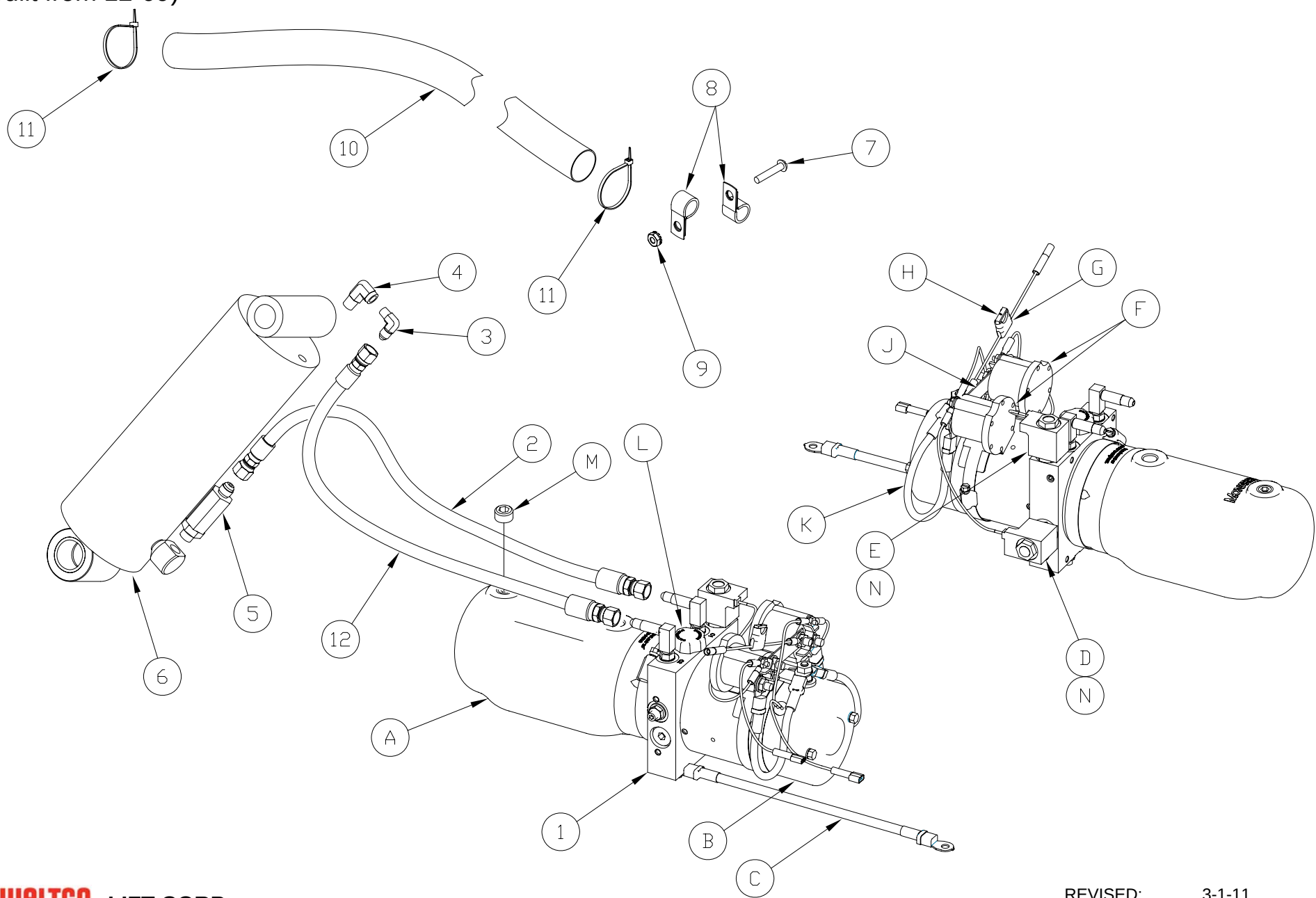
ITEM	PART NUMBER	QTY	DESCRIPTION
1	70430550	1	Hydraulic Pump Unit
A	70400001 ^B	1	Hydraulic Reservoir
B	7043001-1 ^{A,B}	1	Motor
C	10098425 ^B	1	Ground Cable
D	10099309 ^B	1	Inline Fuse Assembly (Includes Fuse 75089853)
E	75089854 ^B	1	Fuse
F	75089833 ^{A,B}	1	Starter Solenoid
G	70092503 ^B	1	Valve Assembly, 2-way, 2 pos w/ Coil
H	70400004 ^B	1	Breather
J	70091291 ^B	1	Steel Plug
K	75089834 ^{A,B}	1	Bus Bar
L	70402303 ^B	1	Coil, 10V, 25W
2	26480010	1	Hydraulic Cylinder
3	7010001-19	1	Flow Valve, 2.75 GPM
4	26299500	1	Hose, 1/4" I.D.
5	75082741	1	Barbed Fitting, 1/8" NPTF x 1/4" Straight
6	75083201	1	Hose, 1/4"I.D. x 7/16"-20 JIC x 57" Long
7	75086732	1	Round Head Screw, 10-32x1"
8	75083044	1	Hose Clamp, 1/2"
9	75082881	1	Hose Clamp, 3/8"
10	75085000	1	Locknut, 10-32
11	43012382	1	Hose Sleeve
12	75089300	2	Wire Tie, 8"

^A Included in Motor Assembly 70400854.
^B Included in Pump Assembly 70430550.



A Pressure Compensative Flow Control Valve must be installed at the cylinder as shown. Valve must be orientated so arrow is pointing away from cylinder.

HYDRAULIC LAYOUT – POWER DOWN
(Built from 12-09)



WALTCO LIFT CORP.
EM

REVISED: 3-1-11
E.O. 6469
REV. 03

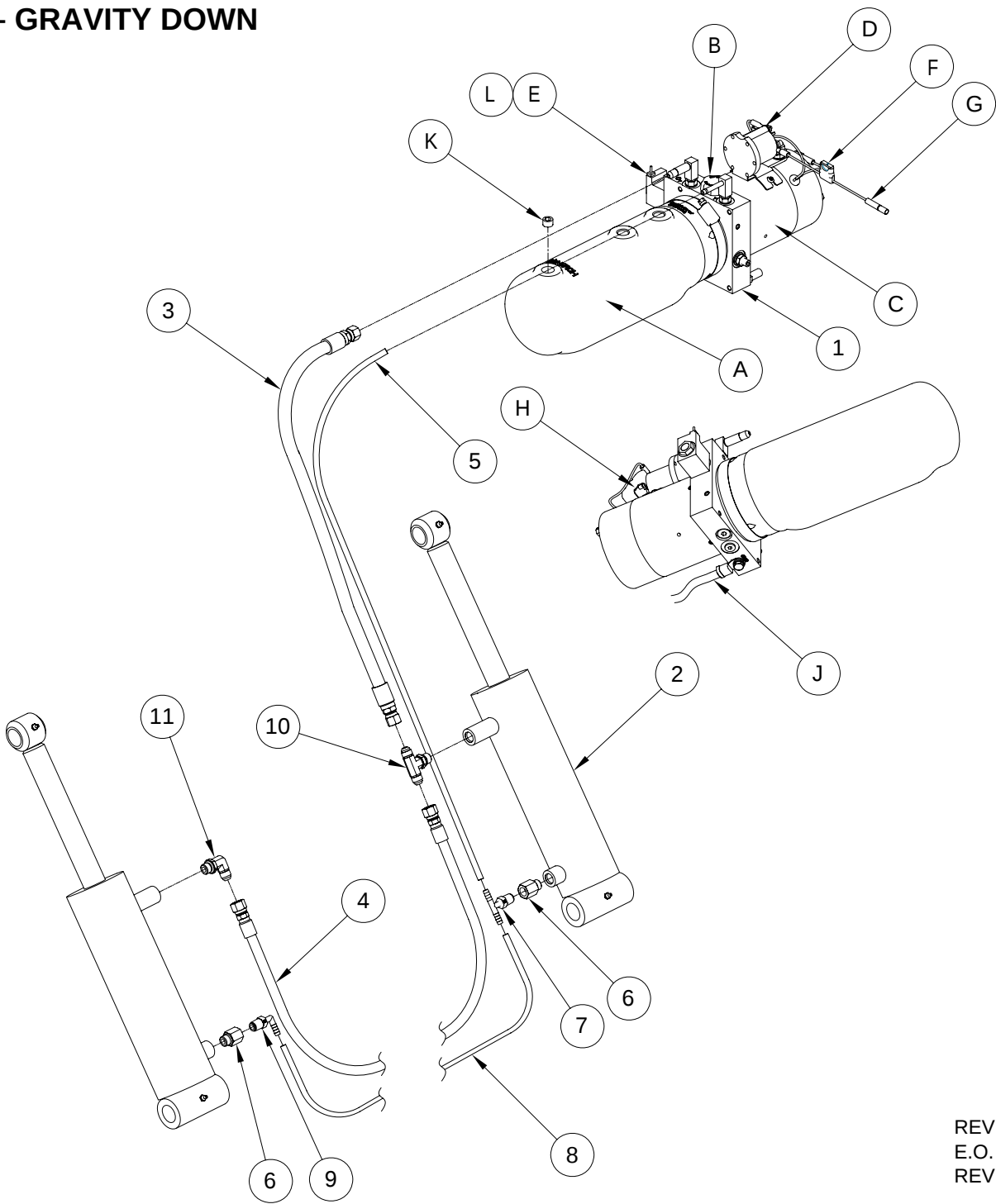
PM-790

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70430560	1	Hydraulic Pump Unit (Power Down)
A	70400828 ^A	1	Hydraulic Reservoir
B	7043001-1 ^A	1	Motor
C	10098425 ^A	1	Ground Cable
D	70400014 ^A	1	Valve Assembly, 4-way, 2 pos w/ Coil
E	70092503 ^A	1	Valve Assembly, 2-way, 2 pos w/ Coil
F	75089833 ^A	2	Starter Solenoid
G	10099309 ^A	1	Inline Fuse Assembly (Includes Fuse 75089853)
H	75089854 ^A	1	Fuse
J	70091779 ^A	1	Strap Connector
K	10195506 ^A	2	Cable Assemblies, 6"
L	70400004 ^A	1	Breather
M	70091291 ^A	1	Steel Plug
N	70402303 ^A	2	Coil, 10V, 25W
2	75083201	1	Hose, 1/4" I.D. x 7/16"-20 JIC x 57" Long
3	7500104-1	1	Elbow, Male, 1/8" NPT x 7/16"-20 JIC
4	7500105-1	1	Elbow, Street, 1/8 NPT
5	7010001-19	1	Flow Valve, 2.75 GPM
6	26480010	1	Hydraulic Cylinder
7	75086732	1	Round Head Screw, 10-32x1"
8	75083044	2	Hose Clamp, 1/2"
9	75085000	1	Locknut, 10-32
10	43012382	1	Hose Sleeve
11	75089300	2	Wire Tie, 8"
12	75083200	1	Hose, 1/4" I.D. x 7/16"-20 JIC x 45" Long

^A Included in Pump Assembly 70430560.

⚠ A Pressure Compensative Flow Control Valve must be installed at the cylinder as shown. Valve must be orientated so arrow is pointing away from cylinder.

HYDRAULIC LAYOUT – GRAVITY DOWN
(Built from 12-09)



WALTCO LIFT CORP.
EMTC

REVISED: 3-1-11
E.O. 6469
REV. 02

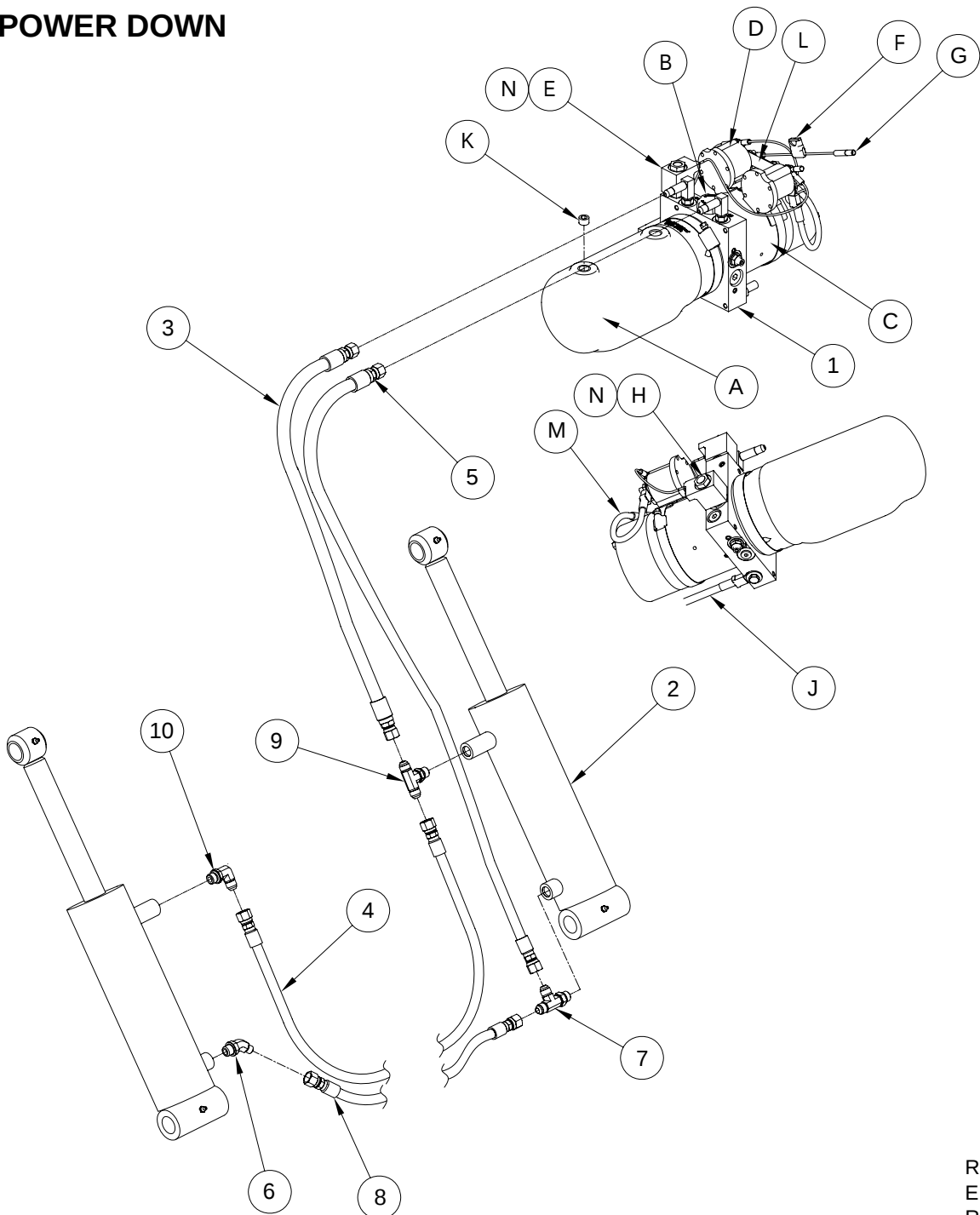
PM-784

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70430550	1	Hydraulic Pump Unit
A	70400001 ^B	1	Hydraulic Reservoir
B	70400004 ^B	1	Breather
C	7043001-1 ^{A,B}	1	Motor
D	75089833 ^{A,B}	1	Starter Solenoid
E	70092503 ^B	1	Valve Assembly, 2-way, 2 pos w/ Coil
F	75089853 ^B	1	Fuse
G	10099309 ^B	1	Inline Fuse Assembly (Includes Fuse 75089853)
H	75089834 ^{A,B}	1	Bus Bar
J	10098425 ^B	1	Ground Cable
K	70091291 ^B	1	Steel Plug
L	70402303 ^B	1	Coil, 10V, 25W
2	26580010	2	Hydraulic Cylinder
3	75083111	1	Hose, 3/8" ID x 1/4" JIC x 3/8" JIC
4	7500077-11	1	Hose, 1/4" ID x 3/8" JIC x 3/8" JIC
5	75083023	1	Tube, 1/4" ID
6	7500092-1	2	Adapter, 3/8" ORB x 1/4" NPT
7	75082747	1	Tee Barbed Fitting, 1/4" NPT x 1/4" Tube
8	75083133	1	Tube, 1/4" ID
9	75082745	1	Elbow Barbed Fitting, 1/4" NPT x 1/4" Tube
10	75082887	1	Tee, 3/8" ORB x 3/8" JIC
11	75082869	1	Elbow, 3/8" ORB x 3/8" JIC

^A Included in Motor Assembly 70400854.

^B Included in Pump Assembly 70430550.

HYDRAULIC LAYOUT – POWER DOWN
(Built from 12-09)



WALTCO LIFT CORP.
EMTC

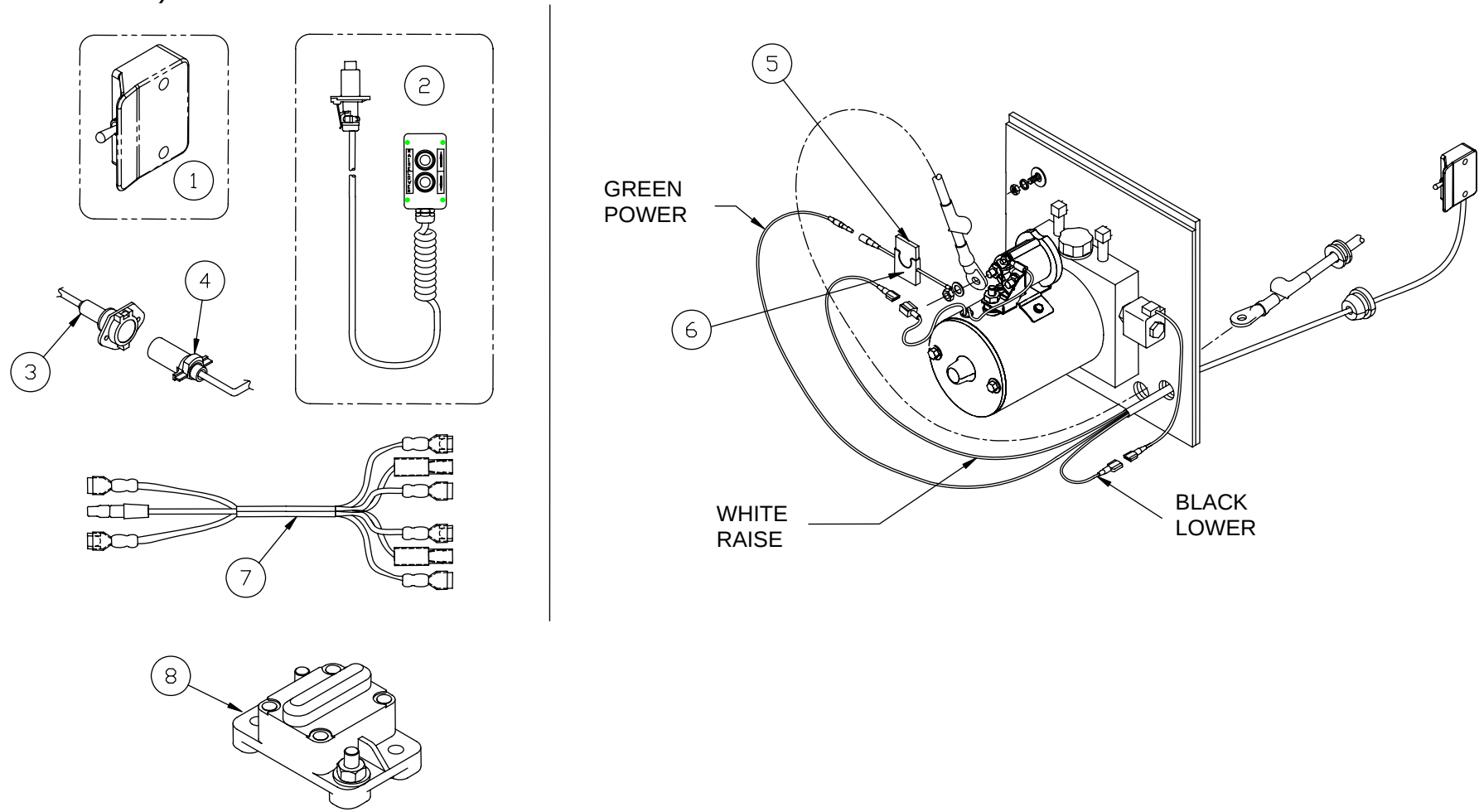
REVISED: 3-1-11
E.O. 6469
REV. 02

PM-785

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70430560	1	Hydraulic Pump Unit
A	70400828 ^A	1	Hydraulic Reservoir
B	70400004 ^A	1	Breather
C	7043001-1 ^A	1	Motor
D	75089833 ^A	2	Starter Solenoid
E	70092503 ^A	1	Valve Assembly, 2-way, 2 pos w/ Coil
F	75089853 ^A	1	Fuse
G	10099309 ^A	1	Inline Fuse Assembly (Includes Fuse 75089853)
H	70400014 ^A	1	Valve Assembly, 4-way, 2 pos w/ Coil
J	10098425 ^A	1	Ground Cable
K	70091291 ^A	1	Steel Plug
L	70091779 ^A	1	Connecting Strap
M	70091778 ^A	2	Solenoid Cable
N	70402303 ^A	2	Coil, 10V, 25W
2	26580010	2	Hydraulic Cylinder
3	75083111	1	Hose, 3/8" ID x 1/4" JIC x 3/8" JIC
4	7500077-11	1	Hose, 1/4" ID x 3/8" JIC x 3/8" JIC
5	7500077-13	1	Hose, 1/4" ID x 1/4" JIC x 3/8" JIC
6	75082890	1	Elbow, 45, 3/8" ORB x 1/4" JIC
7	75083132	1	Tee, 3/8" ORB x 3/8" JIC
8	7500077-12	1	Hose, 1/4" ID x 1/4" JIC x 3/8" JIC
9	75082887	1	Tee, 3/8" ORB x 3/8" JIC
10	75082869	1	Elbow, 3/8" ORB x 3/8" JIC

^A Included in Pump Assembly 70430560.

ELECTRIC CONTROL OPTIONS – GRAVITY DOWN
(Built from 12-09)



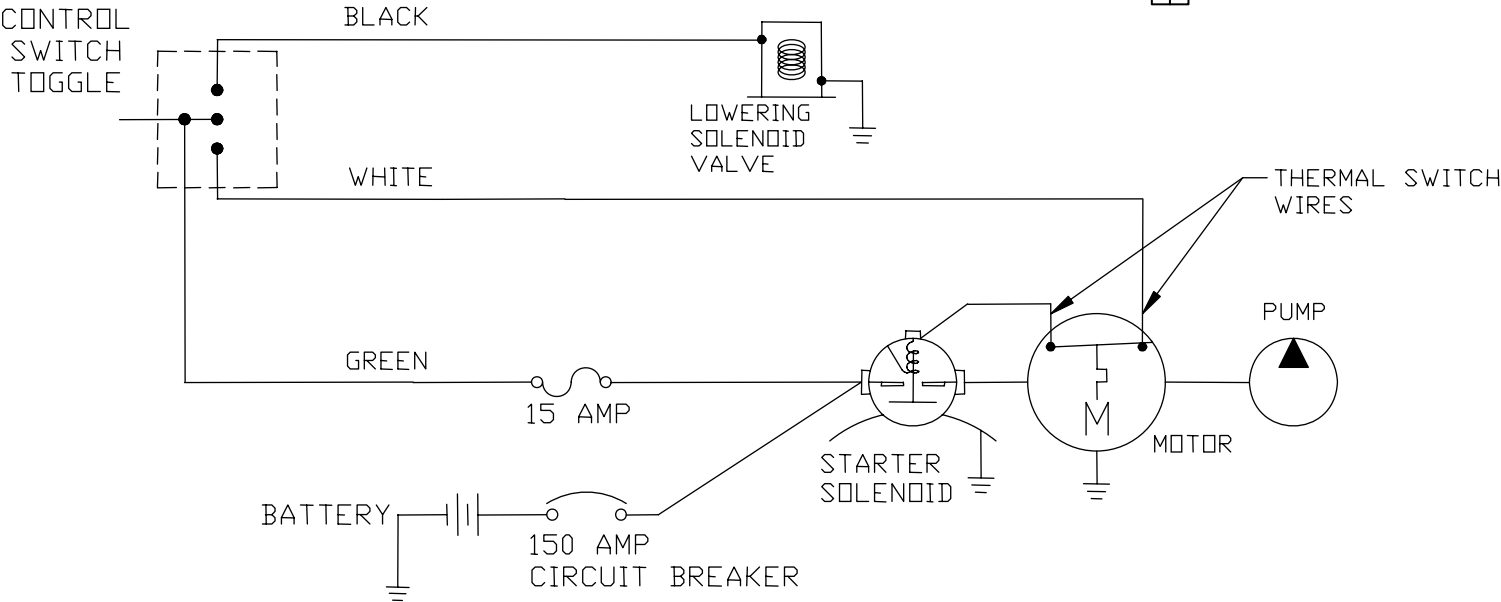
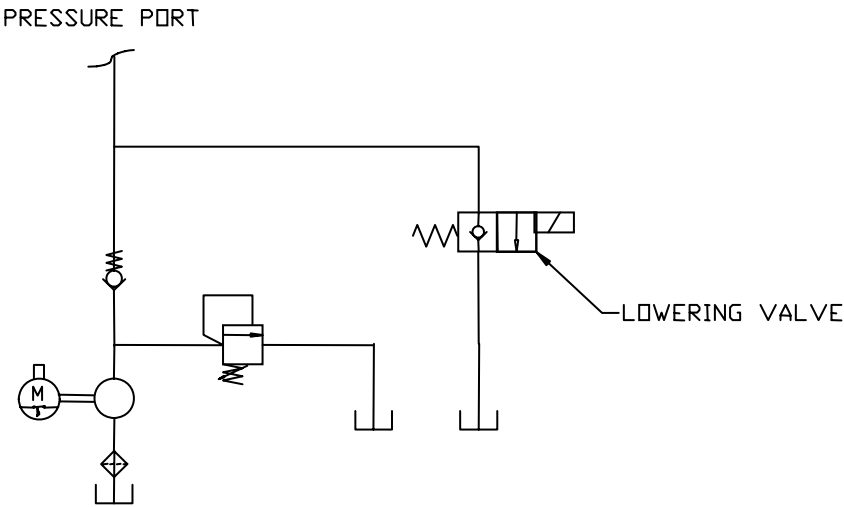
WALTCO LIFT CORP.
EM, EMTC

REVISED: 9-20-10
E.O. 6309JJ
REV. 02

PM-786

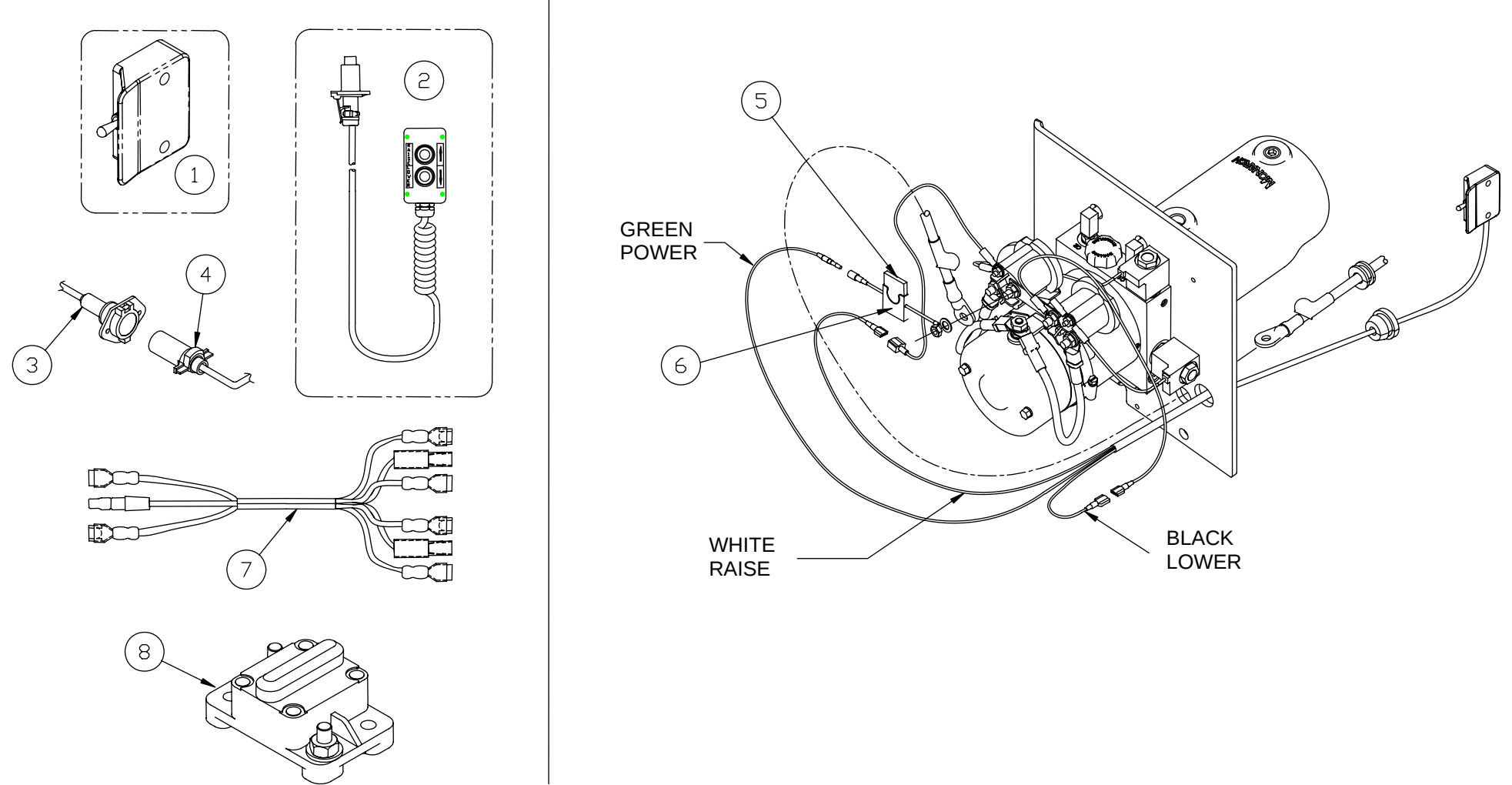
ITEM	PART NUMBER	QTY	DESCRIPTION
1	10099330 ^a	1	Switch w/10ft Cord (for curb side)
	10099331 ^b	1	Switch w/15ft Cord (for Dual Control)
2	10099325 ^c	1	Switch (Hand Held Remote)
3	75082038	1	Trailer Socket
4	75082037	1	Trailer Plug
5	75089854	1	15 Amp Fuse
6	10099309	1	Fuse Holder
7	10098413	1	Dual Control Harness
8	75089243	1	150 Amp Circuit Breaker (Manual Reset)

^a Included in Switch Kit 80000436.
^b Included in Switch Dual Control Kit 80000437.
^c Included in Switch Hand Held Remote Kit 80000430.



GR02671

ELECTRIC CONTROL OPTIONS – POWER DOWN
(Built from 12-09)



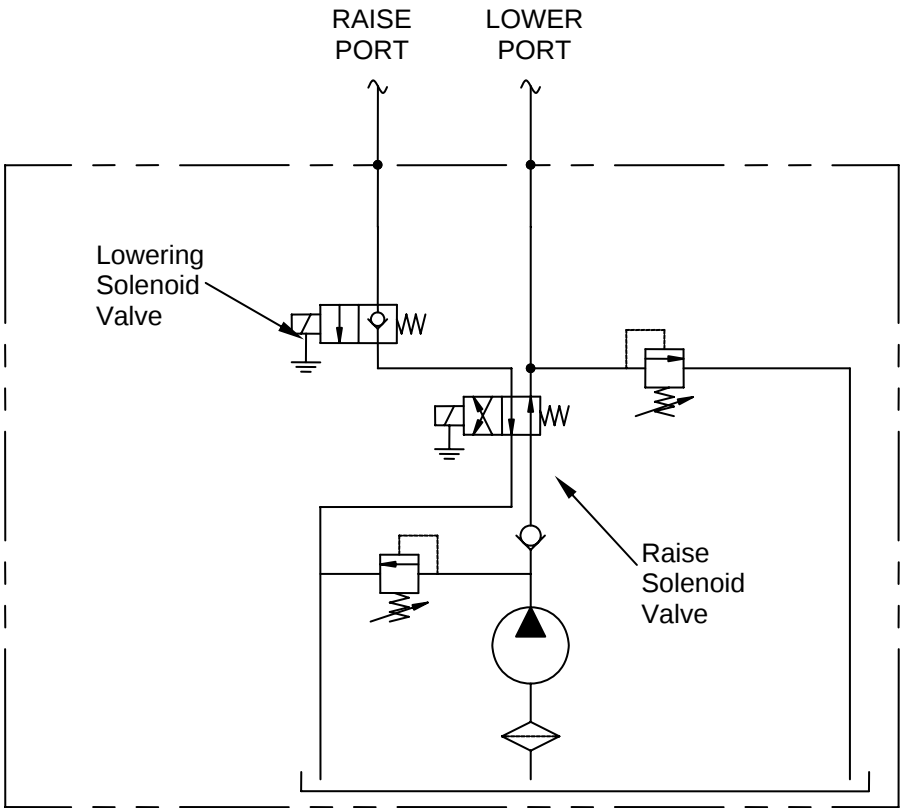
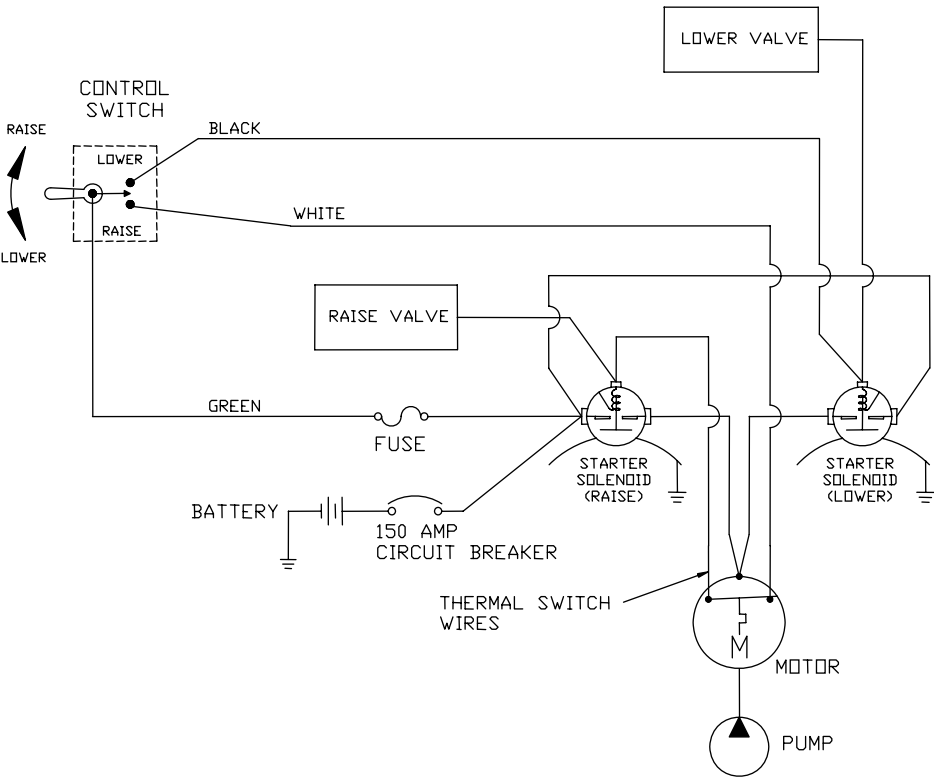
WALTCO LIFT CORP.
EM, EMTC

REVISED: 9-20-10
E.O. 6309JJ
REV. 02

PM-787

ITEM	PART NUMBER	QTY	DESCRIPTION
1	10099330 ^a	1	Switch w/10ft Cord (for curb side)
	10099331 ^b	1	Switch w/15ft Cord (for Dual Control)
2	10099325 ^c	1	Switch (Hand Held Remote)
3	75082038	1	Trailer Socket
4	75082037	1	Trailer Plug
5	75089854	1	15 Amp Fuse
6	10099309	1	Fuse Holder
7	10098413	1	Dual Control Harness
8	75089243	1	150 Amp Circuit Breaker

^a Included in Switch Kit 80000436.
^b Included in Switch Dual Control Kit 80000437.
^c Included in Switch Hand Held Remote Kit 80000430.





Schematics

EM & EMTC Series Electrical Schematics

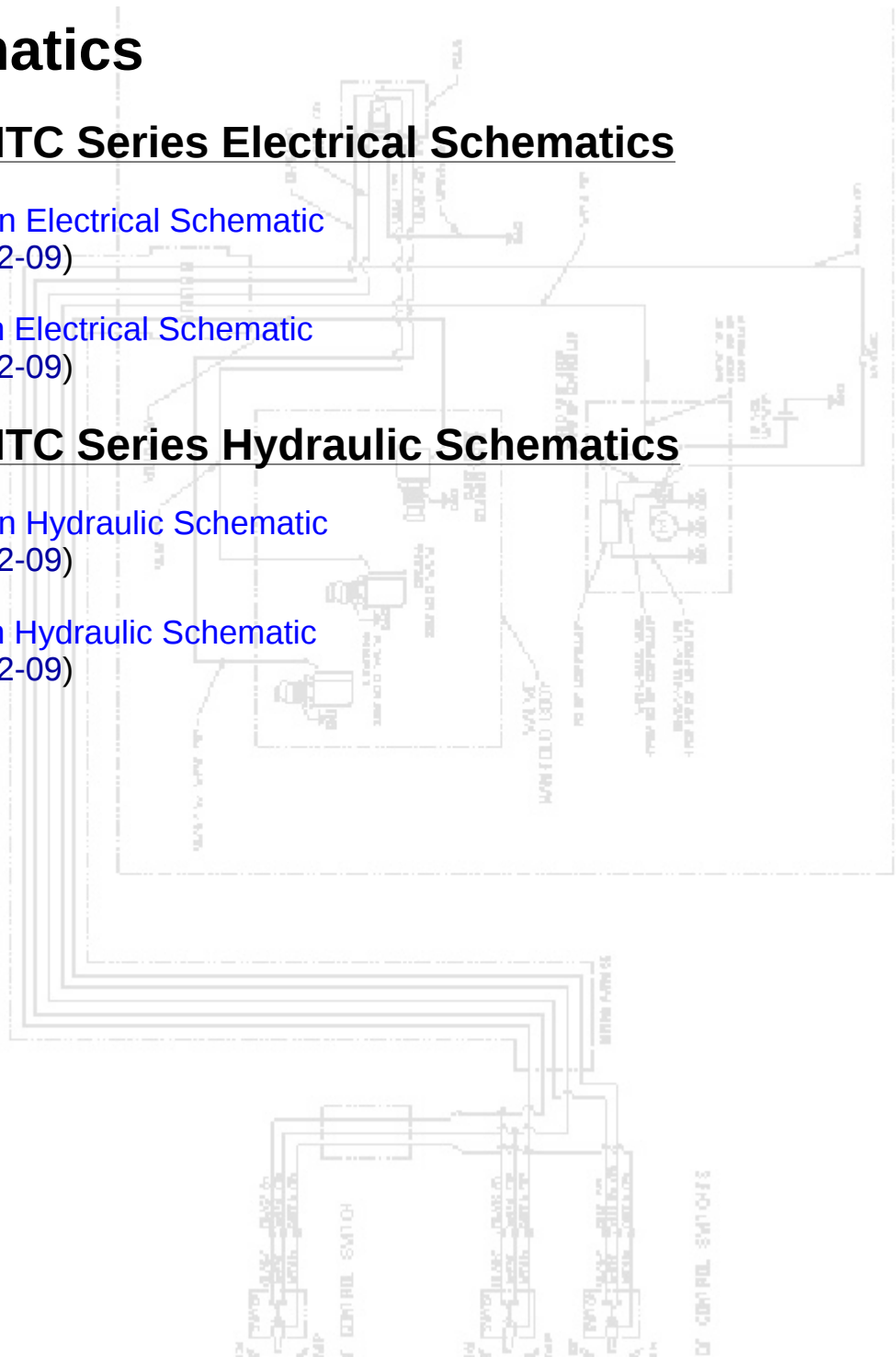
[Gravity Down Electrical Schematic](#)
(Built from 12-09)

[Power Down Electrical Schematic](#)
(Built from 12-09)

EM & EMTC Series Hydraulic Schematics

[Gravity Down Hydraulic Schematic](#)
(Built from 12-09)

[Power Down Hydraulic Schematic](#)
(Built from 12-09)



[Click here for a list of liftgate serial numbers, organized by approximate ship dates.](#)

WALTCO approximate serial number dates.

Tallmadge

Revised 12-14-10

Ser No	Date	Ser No	Date	Ser No	Date	Ser No	Date	Ser No	Date
220000	11/88	322000	03/95	424000	03/00	526000	06/05	618000	11/10
221000	12/88	323000	04/95	425000	04/00	527000	07/05	619000	12/10
222000	01/89	324000	06/95	426000	05/00	528000	07/05		
223000	03/89	325000	07/95	427000	07/00	529000	09/05		
224000	04/89	326000	09/95	428000	08/00	540000	09/05		
225000	05/89	327000	09/95	429000	08/00	541000	10/05		
226000	06/89	328000	11/95	440000	09/00	542000	11/05		
227000	08/89	329000	01/96	441000	11/00	543000	11/05		
228000	10/89	340000	02/96	442000	12/00	544000	12/05		
229000	11/89	341000	03/96	443000	02/01	545000	02/06		
240000	01/90	342000	04/96	444000	04/01	546000	03/06		
241000	02/90	343000	05/96	445000	05/01	547000	03/06		
242000	07/90	344000	07/96	446000	09/01	548000	03/06		
243000	04/90	345000	08/96	447000	09/01	549000	04/06		
244000	05/90	346000	10/96	448000	11/01	560000	05/06		
245000	07/90	347000	12/96	449000	01/02	561000	06/06		
246000	09/90	348000	03/97	460000	04/00	562000	06/06		
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263000	10/91	365000	10/97	467000	02/03	569000	11/06		
264000	12/91	366000	11/97	468000	05/03	580000	01/07		
265000	02/92	367000	12/97	469000	05/03	581000	01/07		
266000	03/92	368000	01/98	480000	07/03	582000	02/07		
267000	05/92	369000	06/98	481000	08/03	583000	03/07		
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280000	09/92	382000	06/98	484000	01/04	586000	07/07		
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282000	12/92	384000	08/98	486000	02/04	588000	11/07		
283000	02/93	385000	11/98	487000	03/04	589000	01/08		
284000	03/93	386000	12/98	488000	03/04	600000	02/08		
285000	04/93	387000	12/98	489000	05/04	601000	05/08		
286000	06/93	388000	01/99	500000	05/04	602000	07/08		
287000	07/93	389000	04/99	501000	06/04	603000	09/08		
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304000	04/94	406000	08/99	508000	02/05	610000	12/09		
305000	05/94	407000	10/99	509000	02/05	611000	01/10		
306000	08/94	408000	11/99	520000	03/05	612000	03/10		
307000	09/94	409000	11/99	521000	03/05	613000	05/10		
308000	10/94	420000	12/99	522000	03/05	614000	06/10		
309000	10/94	421000	12/99	523000	04/05	615000	08/10		
320000	12/94	422000	04/00	524000	04/05	616000	09/10		
321000	01/95	423000	03/00	524500	05/05	617000	10/10		

***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
172000	06/88

Ser No	Date
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
218000	08/93
219000	12/93

Ser No	Date
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
273000	12/98
274000	02/99
275000	04/99
276000	06/99

Ser No	Date
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
318000	04/04
330000	04/04
331000	07/04
332000	10/04
333000	12/04
334000	04/05

Ser No	Date
335000	05/05
336000	11/05
337000	11/05
338000	03/06
339000	04/06
350000	08/06
351000	01/07
352000	04/07
353000	09/07
354000	01/08
355000	08/08

***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	04/04

Ser No	Date
M17500	07/04
M18000	10/04
M19000	01/05
M19500	04/05
M20000	01/06
M20500	03/06
M21000	08/06
M21500	01/07
M21600	03/07
M21700	04/07
M21800	05/07
M21900	07/07
M22000	08/07
M22100	11/07
M22200	12/07
M22300	01/08
M22600	06/08

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
T9500	11/03
T9900	06/04

Burlington (Wisconsin)

Ser No	Date
W1000	11/94
W1100	02/95
W1200	04/95
W1300	06/95
W1400	08/95
W1500	10/95
W1600	12/95
W1700	03/96
W1800	05/96
W1900	08/96
W2000	09/96
W2100	12/96
W2200	02/97
W2300	04/97
W2400	06/97
W2500	08/97

Ser No	Date
W2600	10/97
W2700	12/97
W2800	01/98
W2900	06/98
W3000	07/98
W3100	09/98
W3200	12/98
W3300	03/99
W3400	05/99
W3500	07/99
W3600	09/99
W3700	10/99
W3800	12/99
W3900	03/00
W4000	04/00
W4100	05/00

Ser No	Date
W4200	07/00
W4300	09/00
W4400	11/00
W4500	01/01
W4600	03/01
W4700	05/01
W4800	07/01
W4900	10/01
W5000	12/01
W5100	12/01
W5200	02/02
W5300	03/02
W5400	06/02
W5500	07/02
W5600	09/02
W5700	01/03

Ser No	Date
W5800	01/03
W5900	02/03
W6000	04/03
W6100	06/03
W6200	08/03
W6300	10/03
W6400	01/04
W6500	03/04
W6600	06/04
W6700	09/04
W6800	12/04
W6900	02/05
W7000	05/05

***All Serial Number
Dates are approximate**

MISC.

Ser No	Date
CMC100	05/07
CMC200	07/07
CMC300	09/07
CMC400	10/07
CMC500	12/07
CMC600	01/08
CMC700	06/08

Ser No	Date
CMT100	05/07
CMT200	
CMT300	
CMT400	
CMT500	
CMT600	