



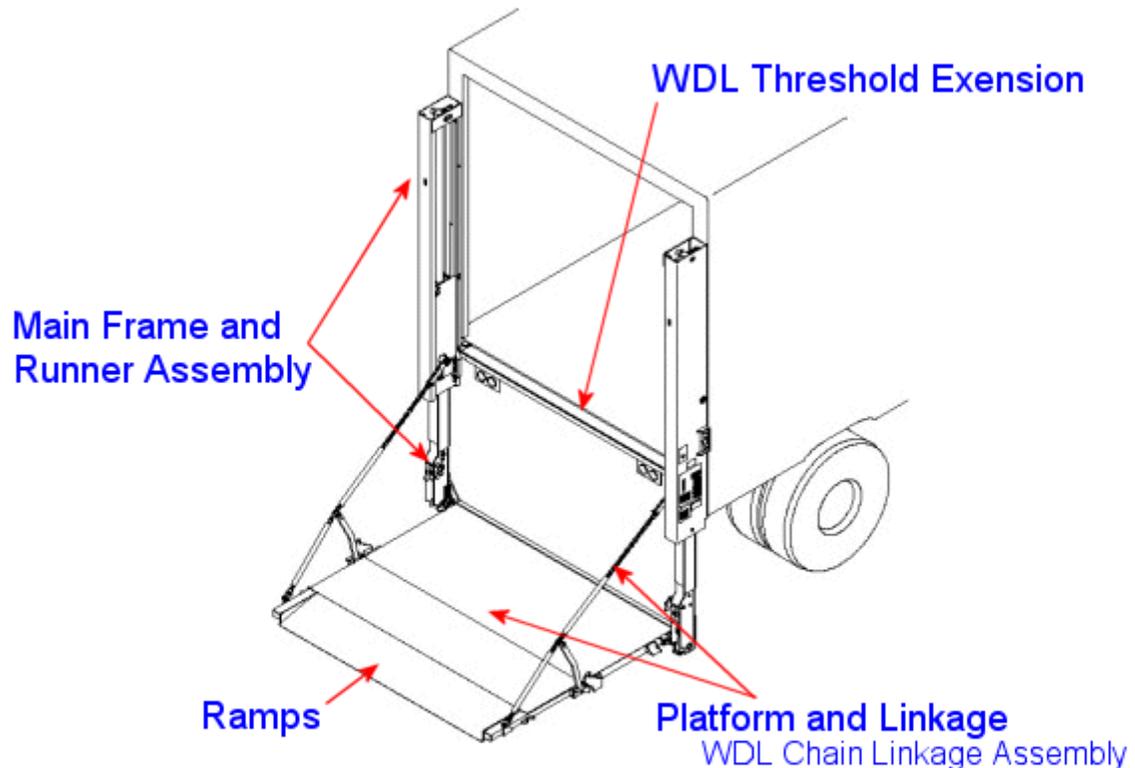
# WALTCO NAVIGATOR™

## LIFTGATE PARTS AND MAINTENANCE GUIDE

### WDL/WDLBG and WDL RM/WDLBG RM

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.

#### [WDL Liftgate Terminology](#)



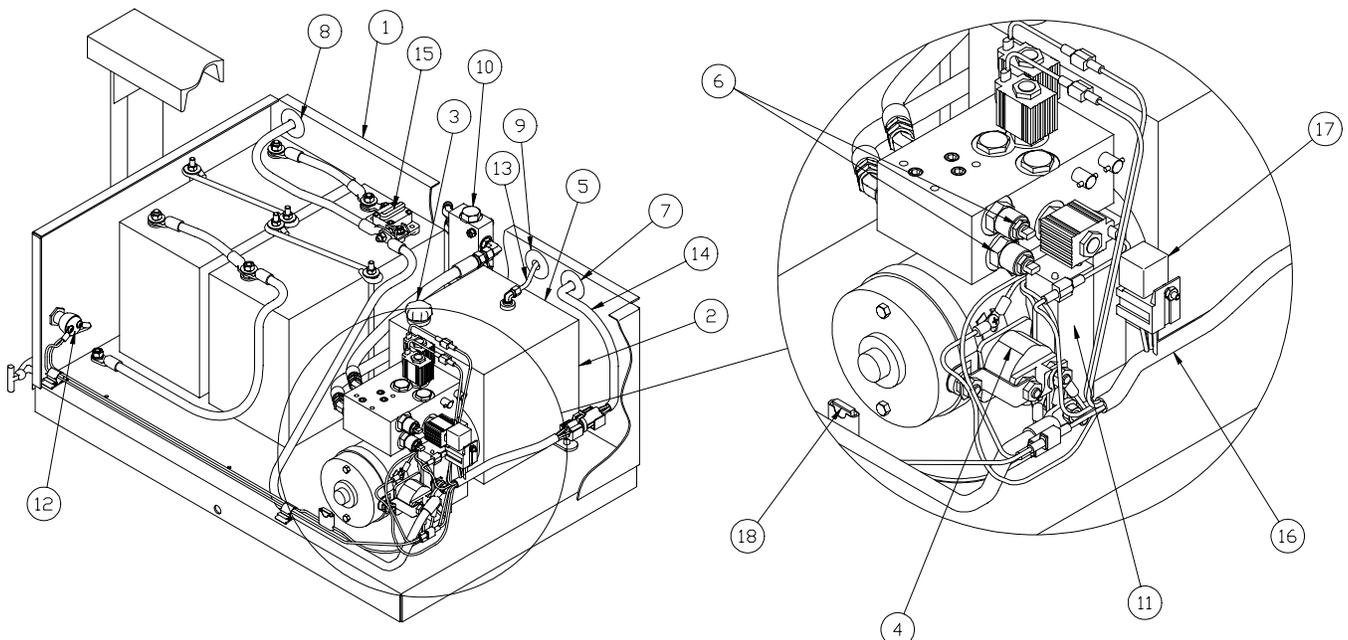
[WDLBG Platform/Runners \(Bottled Gas\)](#)  
[Hydraulics and Controls](#)  
[Pumps and Cylinders](#)  
[Electrical Schematics](#)  
[Tech Tips](#)



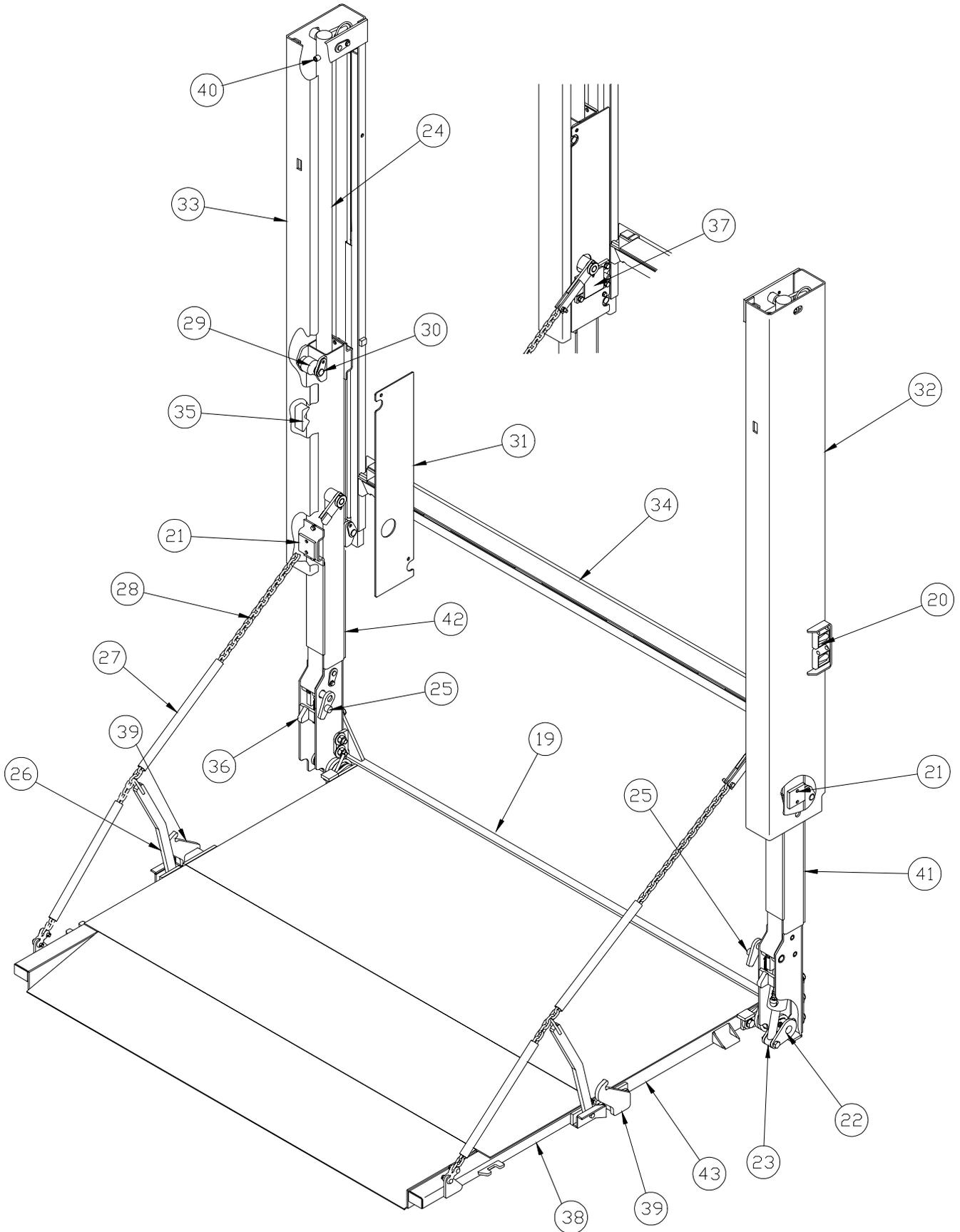
**WDL/  
WDLBG  
and  
WDL RM/  
WDLBG RM**

# 1. WDL RM LIFTGATE TERMINOLOGY

1. Hydraulic Enclosure
2. Pump or Hydraulic Unit
3. Filler/Breather Cap
4. Pump Starter Solenoid
5. Hydraulic Reservoir
6. Platform Opening and Closing Speed Flow Control Valves
7. Grommets Hole for Liftgate Wiring Harness
8. Grommets Hole for Battery Cable
9. Grommets Hole for Return Line
10. Flow Divider Valve
11. Thermalpak® with Voltage Guard™
12. On/Off Key Switch
13. Return Line
14. Liftgate Wiring Harness
15. 150 Amp Circuit Breaker
16. Motor Wiring Harness
17. Relay
18. 5 Amp Fuse
19. Equalizer Beam Assembly
20. Control Switches
21. Runner Wear Pad
22. Outer Hub Assembly
23. Closer Cylinder
24. Lift Cylinder
25. Transit Latch Assembly
26. Chain Linkage Bar Assembly
27. Chain Linkage Cover
28. Support Chain
29. Roller Assembly
30. Roller Pin Assembly
31. Runner Guard Plate
32. Curb Side Upright
33. Street Side Upright
34. Crossbeam
35. Upstop
36. Upstop Bar
37. Store Below Bed Lock
38. Deck Extension Assembly
39. Platform Bottom Stop Hook
40. Cylinder Bleeder Port
41. Curb Side Runner Assembly
42. Street Side Runner Assembly
43. Deck Assembly

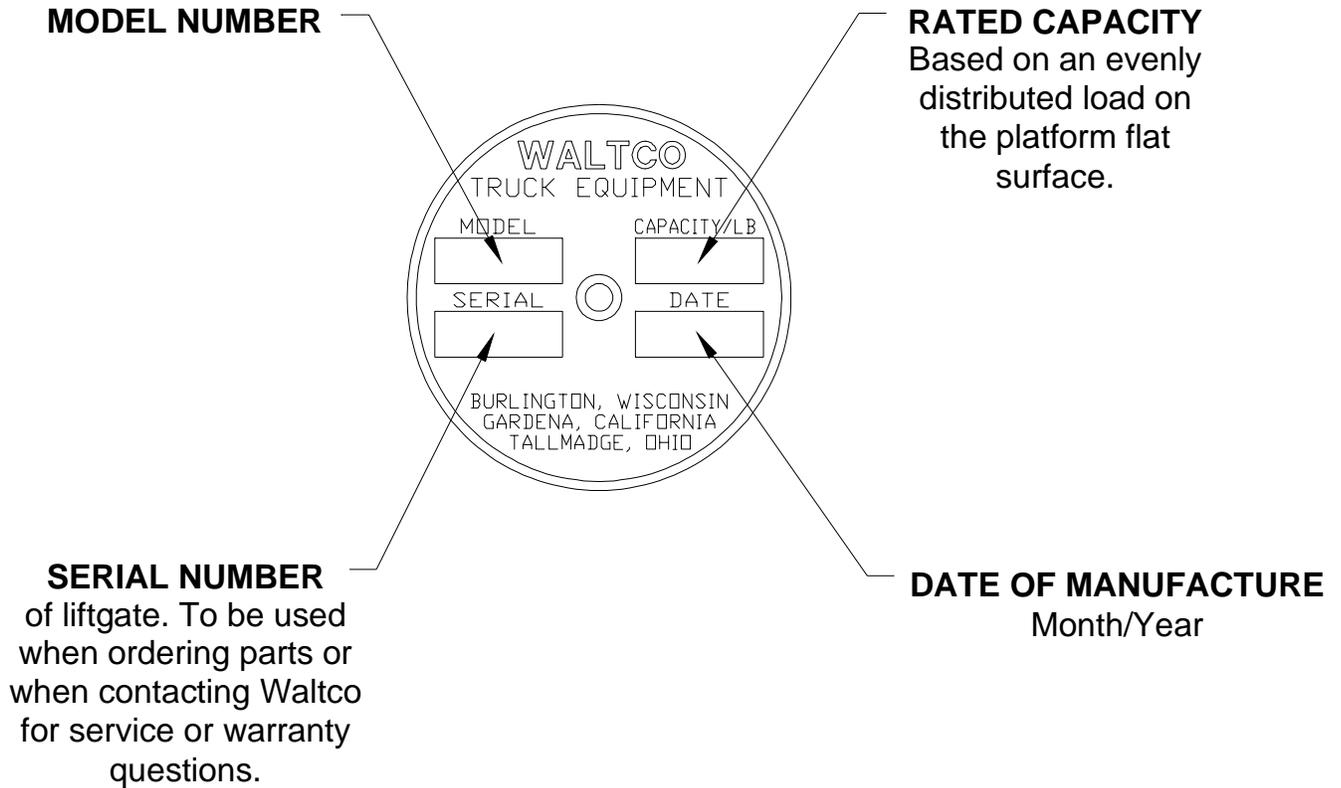


# 1. WDL RM LIFTGATE TERMINOLOGY

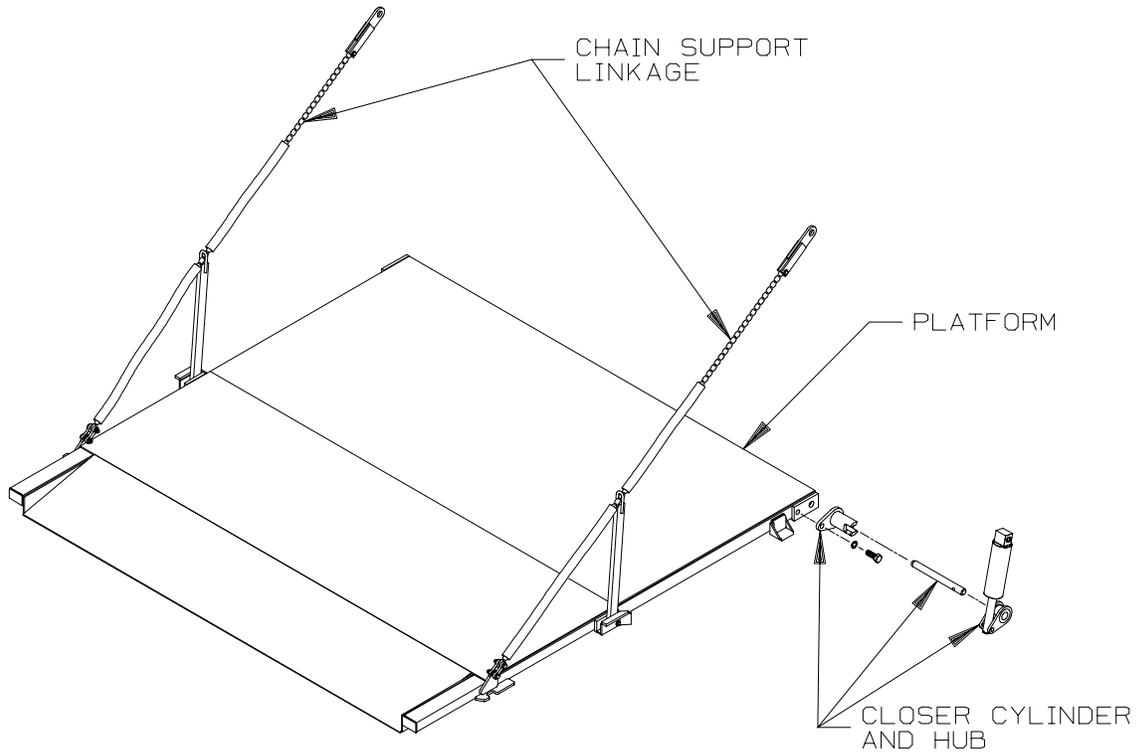


# EXPLANATION OF SPECIFICATION TAG

MODEL NO.	MODEL NAME	DESCRIPTION	CAPACITY
313	WDL-35 RM	WDL-35 RM Series (96" Wide)	3500 lb.
314	WDL-45 RM	WDL-45 RM Series (96" Wide)	4500 lb.
315	WDL-55 RM	WDL-55 RM Series (96" Wide)	5500 lb.
316	WDL-66 RM	WDL-66 RM Series (96" Wide)	6600 lb.
323	WDL-35 RM	WDL-35 RM Series (102" Wide)	3500 lb.
324	WDL-45 RM	WDL-45 RM Series (102" Wide)	4500 lb.
325	WDL-55 RM	WDL-55 RM Series (102" Wide)	5500 lb.
326	WDL-66 RM	WDL-66 RM Series (102" Wide)	6600 lb.



# WDL PLATFORM and LINKAGE



## Common Features

- Capacity decal: 3500, 4500, 5500, and 6600 pounds
- Sizes: 42", 60", 72" and 86" deep
- 80" and 86" wide
- Ramp: 15" fixed, 16" folding aluminum, 12" folding steel
- Chain linkage support (Two piece platforms)
- Bar Linkage support (One piece platforms)
- ◆ Cylinder closing with closure hub

### WDL - 15" ramp

**PM-295**

Built thru 10/98

**PM-456, PM-482**

Built from 10/98 thru 1/02

**PM-456A**

Built from 1/02

### WDL - Butt End

**PM-296**

Built thru 10/98

**PM-457, PM-483**

Built from 10/98 thru 1/02

**PM-457A**

Built from 1/02

### WDL - 1 piece

**PM-297**

Built thru 10/98

**PM-458**

Built from 10/98 thru 1/02

**PM-458A**

Built from 1/02 thru 7/03

**PM-458B**

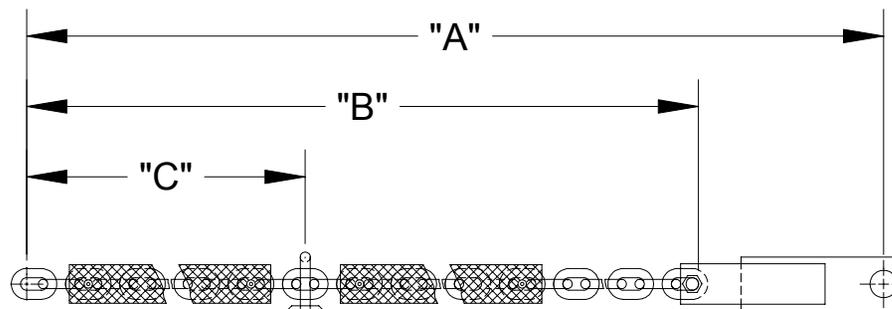
Built from 7/03

- ◆ Closure hub kit must be purchased when ordering hubs or closure cylinder on gates built before 4/1/95. Part # 80000654

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

# WDL Chain Linkage Assembly

Description	Linkage Group Part No.	Chain Linkage Complete Part No.	Chain Linkage Assy Part No.	Overall Linkage Assy Length "A"	Linkage Chain Part No.	Linkage Chain Length "B"	Link Bar Location (Inches) "C"	Link Bar Location (Chain links) "C"
60" Butt End (New Style)	85803597	85803591	85803592	71"	85803590	57-9/16"	20-3/4"	20-1/2 Links
60" Butt End (Old Style)	85803599	85803588	85803592	71"	85803590	57-9/16"	22-3/4"	22-1/2 Links
60" + 15" & 72" Butt End	85803598	85803595	85803596	79-1/16"	85803597	71-3/4"	26-3/4"	26-1/2 Links
72" + 15" & 86" Butt End	85803565	85803459	85803596	79-1/16"	85803600	71-3/4"	26-3/4"	26-1/2 Links



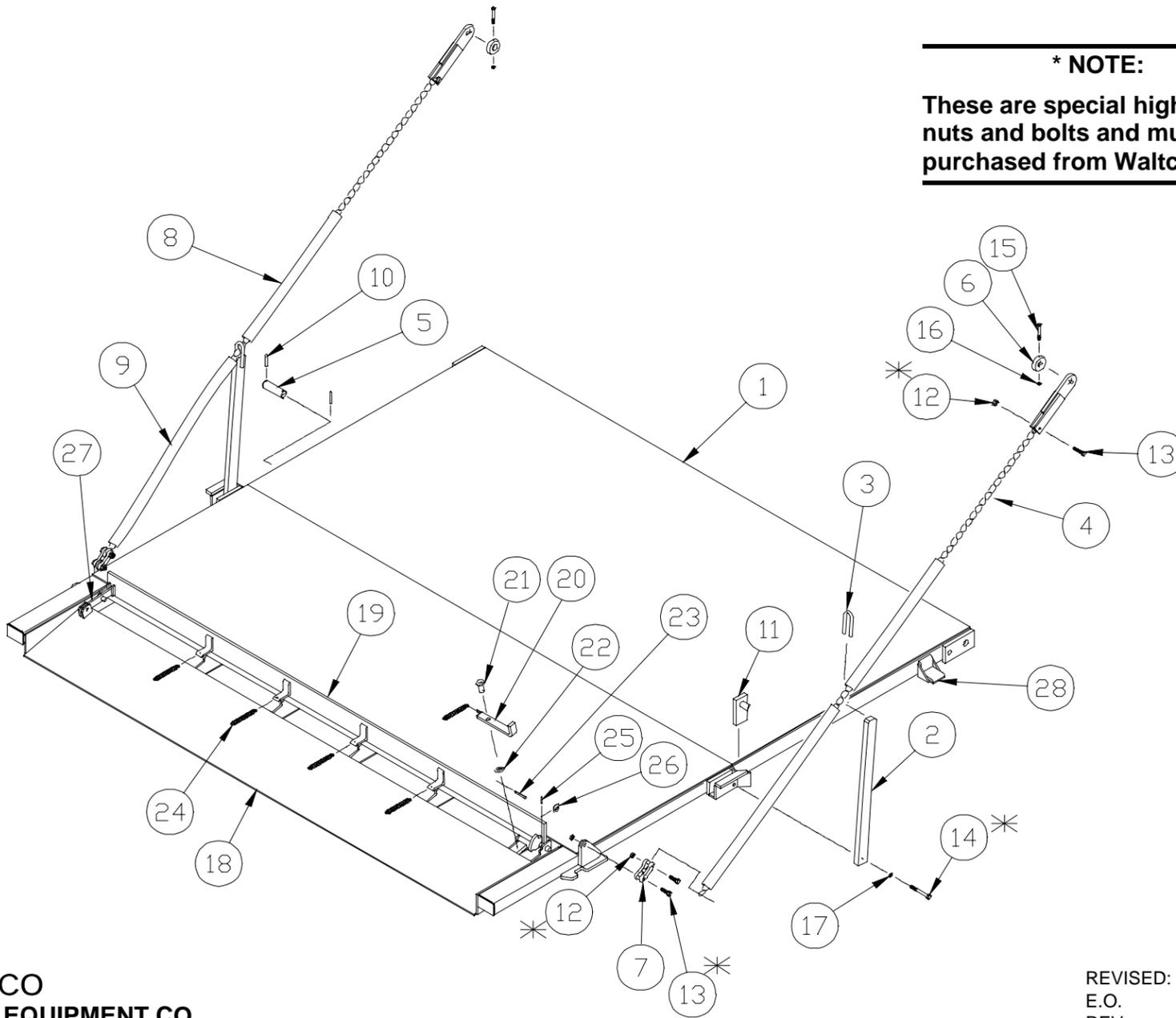
85803589 for 85803591

85803587 for 85803588

85803587 for 85803595

85803443 for 85803459

**PLATFORM & LINKAGE**



**\* NOTE:**  
**These are special high grade nuts and bolts and must be purchased from Waltco.**

**WALTCO  
 TRUCK EQUIPMENT CO.  
 WDL SERIES**

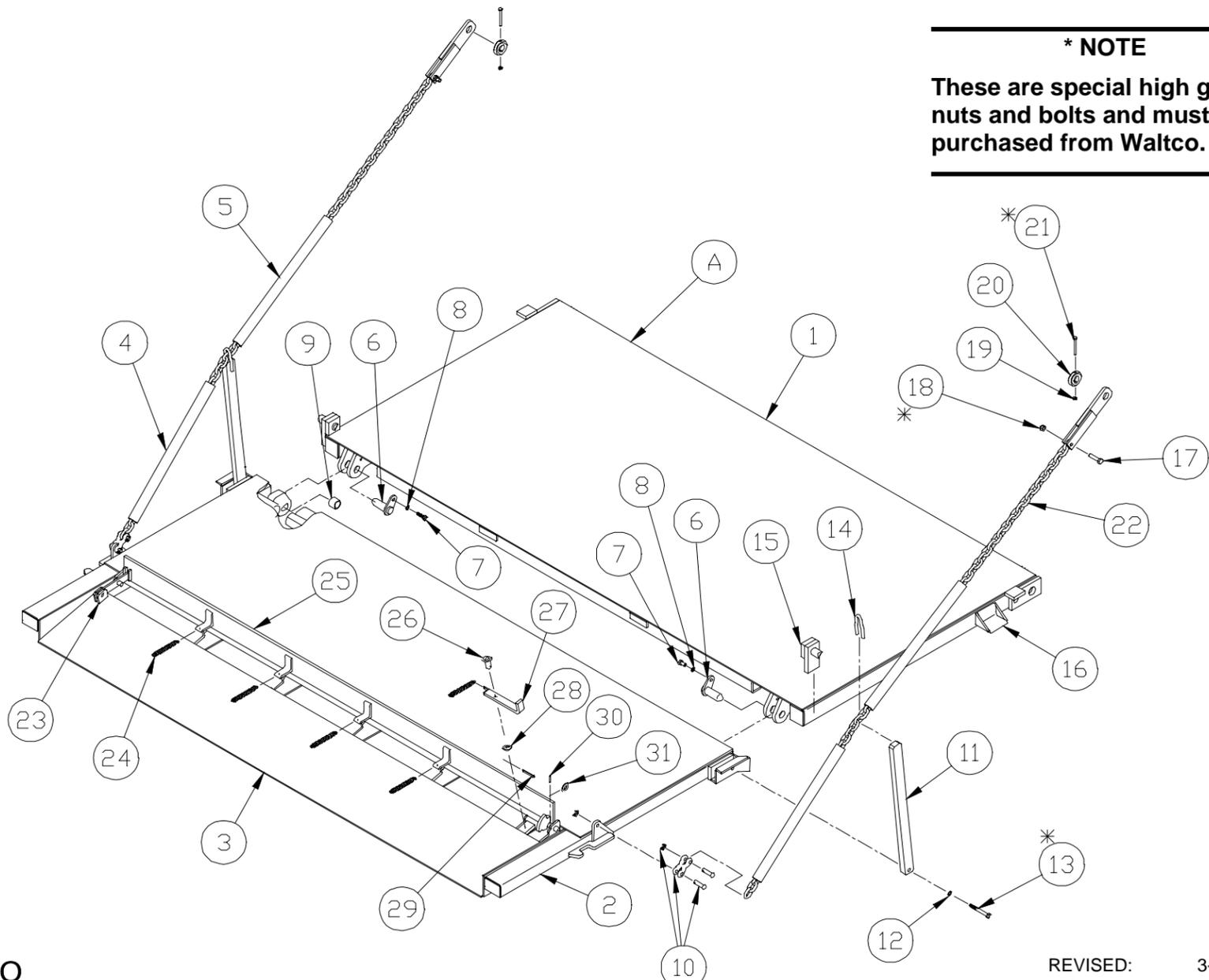
REVISED: 12-18-98  
 E.O. 3760  
 REV. 03

**PM-295**

ITEM	PART NUMBER	QTY	DESCRIPTION	
1	85803630	1	60" X 80" + 15" Ramp (Break Even)	
	85803634	1	60" X 80" + 15" Ramp (Break Even) w/ Cart Stop	
	85803633	1	60" X 80" + 15" Ramp (Break Even) w/ Bottom Stops	
	85803636	1	60" X 80" + 15" Ramp (Break Even) w/ Cart Stop & Bottom Stops	
	85803153	1	72" X 80" + 15" Ramp (Break Even)	
	85803154	1	72" X 80" + 15" Ramp (Break Even) w/ Cart Stop	
	85803650	1	72" X 80" + 15" Ramp (Break Even) w/ Bottom Stops	
	85803646	1	72" X 80" + 15" Ramp (Break Even) w/ Cart Stop & Bottom Stops	
	85803637	1	60" X 86" + 15" Ramp (Break Even)	
	85803641	1	60" X 86" + 15" Ramp (Break Even) w/ Cart Stops	
	85803640	1	60" X 86" + 15" Ramp (Break Even) w/ Bottom Stops	
	85803643	1	60" X 86" + 15" Ramp (Break Even) w/ Cart Stop & Bottom Stops	
	85803100	1	72" X 86" + 15" Ramp (Break Even)	
	85803432	1	72" X 86" + 15" Ramp (Break Even) w/ Cart Stop	
	85803651	1	72" X 86" + 15" Ramp (Break Even) w/ Bottom Stops	
	85803647	1	72" X 86" + 15" Ramp (Break Even) w/ Cart Stop & Bottom Stops	
	2	85803443	2	Connecting Link Bar (72" + 15" Ramp Only)
		85803587	2	Connecting Link Bar (60" + 15" Ramp Only)
3	85803444	2	Connecting Link	
4	85803596	2	Chain Linkage Assembly (72" + 15" Ramp & 60" + 15" Ramp Only)	
5	85803105	2	Extension Hinge Pin	
6	85803550	2	Linkage Retainer Collar	
7	85803456	2	Double Clevis Link	
8	85803542	2	Upper Abrasion Sleeve w/ Pop Rivets	
9	85803544	2	Lower Abrasion Sleeve w/ Pop Rivets	
10	75089541	4	1/4" x 1-7/8" Coil Pin	
11	85803561	2	Platform Bottom Stop Pin Assembly	

ITEM	PART NUMBER	QTY	DESCRIPTION
			(Bottom Stop Platforms Only)
*12	85803464	6	7/16"-20 Lock Nut
*13	85803463	4	7/16"-20 x 1-3/4" Hex Bolt (Grade 8)
*14	85803462	2	7/16"-20 x 1-1/2" Hex Bolt (Grade 8)
15	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
16	75085175	2	1/4"-20 Lock Nut
17	75088082	2	7/16" Lock Washer
18	85803191	1	80" Cart Stop Ramp Assembly Complete (Items 18 Thru 27)
	85803418	1	86" Cart Stop Ramp Assembly Complete (Items 18 Thru 26)
19	85803192	1	80" Cart Stop Assembly (Cart Stop Platforms Only)
	85803419	1	86" Cart Stop Assembly (Cart Stop Platforms Only)
20	35442002	1	Cart Stop Lever Assembly (Cart Stop Platforms Only)
21	35440502	1	Cart Stop Pin Assembly (Cart Stop Platforms Only)
22	75088056	1	1/2" Plain Washer
23	75084052	1	5/32" x 1" Cotter Pin
24	75089752	5	Extension Spring
25	75089547	1	3/16" x 1" Coiled Pin
26	75088064	1	5/8" Plain Washer
27	35442501	1	Cart Stop Brace Assembly
28	85803799	1	Platform Stop Angle Assembly

**PLATFORM & LINKAGE (96" Wide Liftgates)**



**\* NOTE**

These are special high grade nuts and bolts and must be purchased from Waltco.

**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES (96" Wide)**

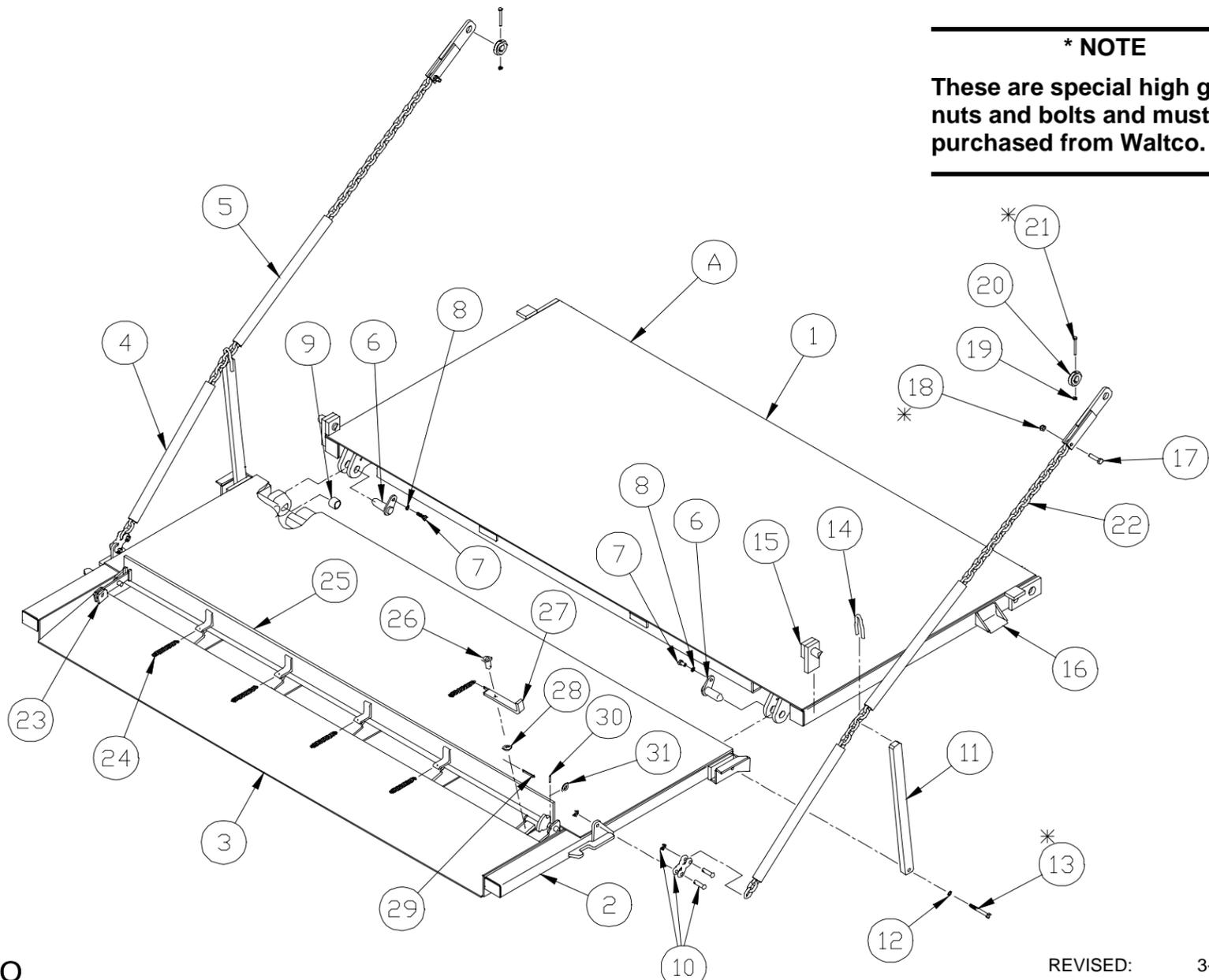
REVISED: 3-1-99  
E.O. 3831A  
REV. 03

**PM-456**

ITEM	PART NUMBER	QTY	DESCRIPTION
A	31410005	1	Platform Assy Complete, 60" X 80" + 15" Ramp (Break Even)
	31410007	1	Platform Assy Complete, 60" X 80" + 15" Ramp (Break Even) w/ Cart Stop
	31410006	1	Platform Assy Complete, 60" X 80" + 15" Ramp (Break Even) w/ Bottom Stops
	31410008	1	Platform Assy Complete, 60" X 80" + 15" Ramp (Break Even) w/ Cart Stop & Bottom Stops
	31410009	1	Platform Assy Complete, 72" X 80" + 15" Ramp (Break Even)
	31410011	1	Platform Assy Complete, 72" X 80" + 15" Ramp (Break Even) w/ Cart Stop
	31410010	1	Platform Assy Complete, 72" X 80" + 15" Ramp (Break Even) w/ Bottom Stops
	31410012	1	Platform Assy Complete, 72" X 80" + 15" Ramp (Break Even) w/ Cart Stop & Bottom Stops
	1	31411005	1
31411006		1	Deck Assy, 60" x 80" + 15" w/ Bottom Stops
31411007		1	Deck Assy, 42" x 80" (72" + 15" & 86" B.E. Platforms)
31411008		1	Deck Assy, 42" x 80" (72" + 15" & 86" B.E. Platforms) w/ Bottom Stops
2	31418003	1	Deck Ext Assy, 60" x 80" + 15"
	31418004	1	Deck Ext Assy, 60" x 80" + 15" w/ Cart Stop
	31418005	1	Deck Ext Assy, 72" x 80" + 15"
	31418006	1	Deck Ext Assy, 72" x 80" + 15" w/ Cart Stop
3	85803191	1	80" Cart Stop Ramp Assembly Complete (Items 18 Thru 27)
4	85803544	2	Lower Abrasion Sleeve w/ Pop Rivets
5	85803542	2	Upper Abrasion Sleeve w/ Pop Rivets
6	37417501	2	Extension Hinge Pin
7	75086055	2	3/8"-16 x 3/4" Lg. Gr. 5 Hex Bolt
8	75088081	2	3/8" Lock Washer
9	85803391	2	1-1/4" O.D. x 1" I.D. x 1" Lg. Bearing
10	85803456	2	Double Clevis Link (w/ Clevis Pins and Cotter Pins)

ITEM	PART NUMBER	QTY	DESCRIPTION
11	85803443	2	Connecting Link Bar (72" + 15" Ramp Only)
	85803587	2	Connecting Link Bar (60" + 15" Ramp Only)
12	75088082	2	7/16" Lock Washer
13	85803462	2	7/16"-20 x 1-1/2" Hex Bolt (Grade 8)
14	85803444	2	Connecting Link
15	85803561	2	Platform Bottom Stop Pin Assembly (Bottom Stop Platforms Only)
16	31417501	1	Platform Stop Angle Assy
*17	85803463	2	7/16"-20 x 1-3/4" Hex Bolt (Grade 8)
*18	85803464	2	7/16"-20 Lock Nut
19	75085161	1	1/4"-20 Lock Nut
20	85803550	2	Linkage Retainer Collar
*21	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
22	85803596	2	Chain Linkage Assembly (72" + 15" Ramp & 60" + 15" Ramp Only)
23	35442501	1	Cart Stop Brace Assembly
24	75089752	5	Extension Spring
25	85803192	1	80" Cart Stop Assembly (Cart Stop Platforms Only)
26	35440502	1	Cart Stop Pin Assembly (Cart Stop Platforms Only)
27	35442002	1	Cart Stop Lever Assembly (Cart Stop Platforms Only)
28	75088056	1	1/2" Plain Washer
29	75084052	1	5/32" x 1" Cotter Pin
30	75089547	1	3/16" x 1" Coiled Pin
31	75088064	1	5/8" Plain Washer

# PLATFORM & LINKAGE (102" Wide Liftgates)



**\* NOTE**

These are special high grade nuts and bolts and must be purchased from Waltco.

**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES (102" Wide)**

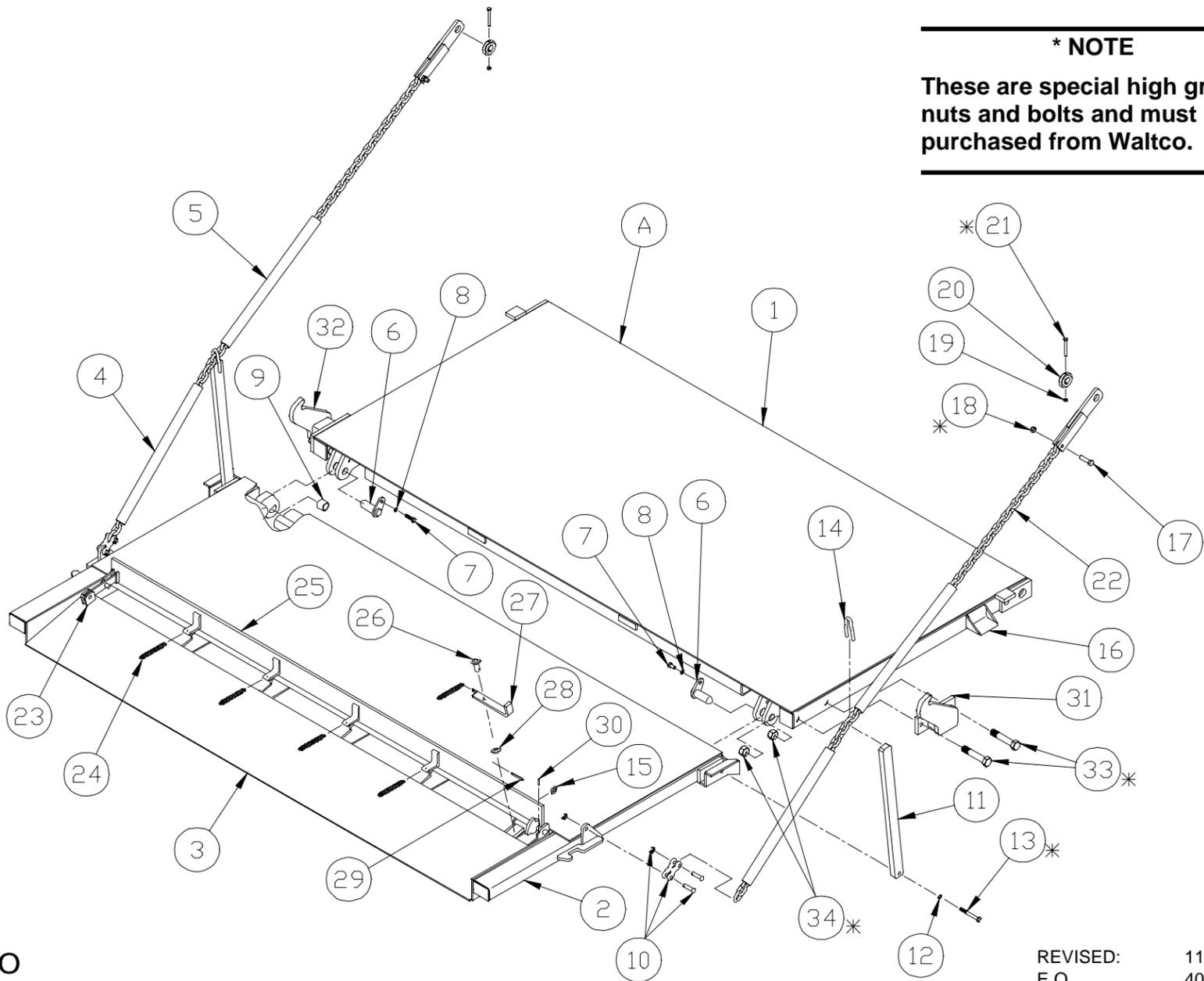
REVISED: 3-1-99  
E.O. 3831A  
REV. 03

**PM-482**

ITEM	PART NUMBER	QTY	DESCRIPTION
A	32410005	1	Platform Assy Complete, 60" X 86" + 15" Ramp (Break Even)
	32410007	1	Platform Assy Complete, 60" X 86" + 15" Ramp (Break Even) w/ Cart Stop
	32410006	1	Platform Assy Complete, 60" X 86" + 15" Ramp (Break Even) w/ Bottom Stops
	32410008	1	Platform Assy Complete, 60" X 86" + 15" Ramp (Break Even) w/ Cart Stop & Bottom Stops
	32410009	1	Platform Assy Complete, 72" X 86" + 15" Ramp (Break Even)
	32410011	1	Platform Assy Complete, 72" X 86" + 15" Ramp (Break Even) w/ Cart Stop
	32410010	1	Platform Assy Complete, 72" X 86" + 15" Ramp (Break Even) w/ Bottom Stops
	32410012	1	Platform Assy Complete, 72" X 86" + 15" Ramp (Break Even) w/ Cart Stop & Bottom Stops
	1	32411005	1
32411006		1	Deck Assy, 60" x 86" + 15" w/ Bottom Stops
32411007		1	Deck Assy, 42" x 86" (72" + 15" & 86" B.E. Platforms)
32411008		1	Deck Assy, 42" x 86" (72" + 15" & 86" B.E. Platforms) w/ Bottom Stops
2	32418003	1	Deck Ext Assy, 60" x 86" + 15"
	32418004	1	Deck Ext Assy, 60" x 86" + 15" w/ Cart Stop
	32418005	1	Deck Ext Assy, 72" x 86" + 15"
	32418006	1	Deck Ext Assy, 72" x 86" + 15" w/ Cart Stop
3	85803418	1	86" Cart Stop Ramp Assembly Complete (Items 23 Thru 31)
4	85803544	2	Lower Abrasion Sleeve w/ Pop Rivets
5	85803542	2	Upper Abrasion Sleeve w/ Pop Rivets
6	37417501	2	Extension Hinge Pin
7	75086055	2	3/8"-16 x 3/4" Lg. Gr. 5 Hex Bolt
8	75088081	2	3/8" Lock Washer
9	85803391	2	1-1/4" O.D. x 1" I.D. x 1" Lg. Bearing
10	85803456	2	Double Clevis Link (w/ Clevis Pins and Cotter Pins)

ITEM	PART NUMBER	QTY	DESCRIPTION
11	85803443	2	Connecting Link Bar (72" + 15" Ramp Only)
	85803587	2	Connecting Link Bar (60" + 15" Ramp Only)
12	75088082	2	7/16" Lock Washer
13	85803462	2	7/16"-20 x 1-1/2" Hex Bolt (Grade 8)
14	85803444	2	Connecting Link
15	85803561	2	Platform Bottom Stop Pin Assembly (Bottom Stop Platforms Only)
16	31417501	1	Platform Stop Angle Ass'y
*17	85803463	2	7/16"-20 x 1-3/4" Hex Bolt (Grade 8)
*18	85803464	2	7/16"-20 Lock Nut
19	75085161	1	1/4"-20 Lock Nut
20	85803550	2	Linkage Retainer Collar
*21	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
22	85803596	2	Chain Linkage Assembly (72" + 15" Ramp & 60" + 15" Ramp Only)
23	35442501	1	Cart Stop Brace Assembly
24	75089752	5	Extension Spring
25	85803419	1	86" Cart Stop Assembly (Cart Stop Platforms Only)
26	35440502	1	Cart Stop Pin Assembly (Cart Stop Platforms Only)
27	35442002	1	Cart Stop Lever Assembly (Cart Stop Platforms Only)
28	75088056	1	1/2" Plain Washer
29	75084052	1	5/32" x 1" Cotter Pin
30	75089547	1	3/16" x 1" Coiled Pin
31	75088064	1	5/8" Plain Washer

# PLATFORM & LINKAGE



**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES**

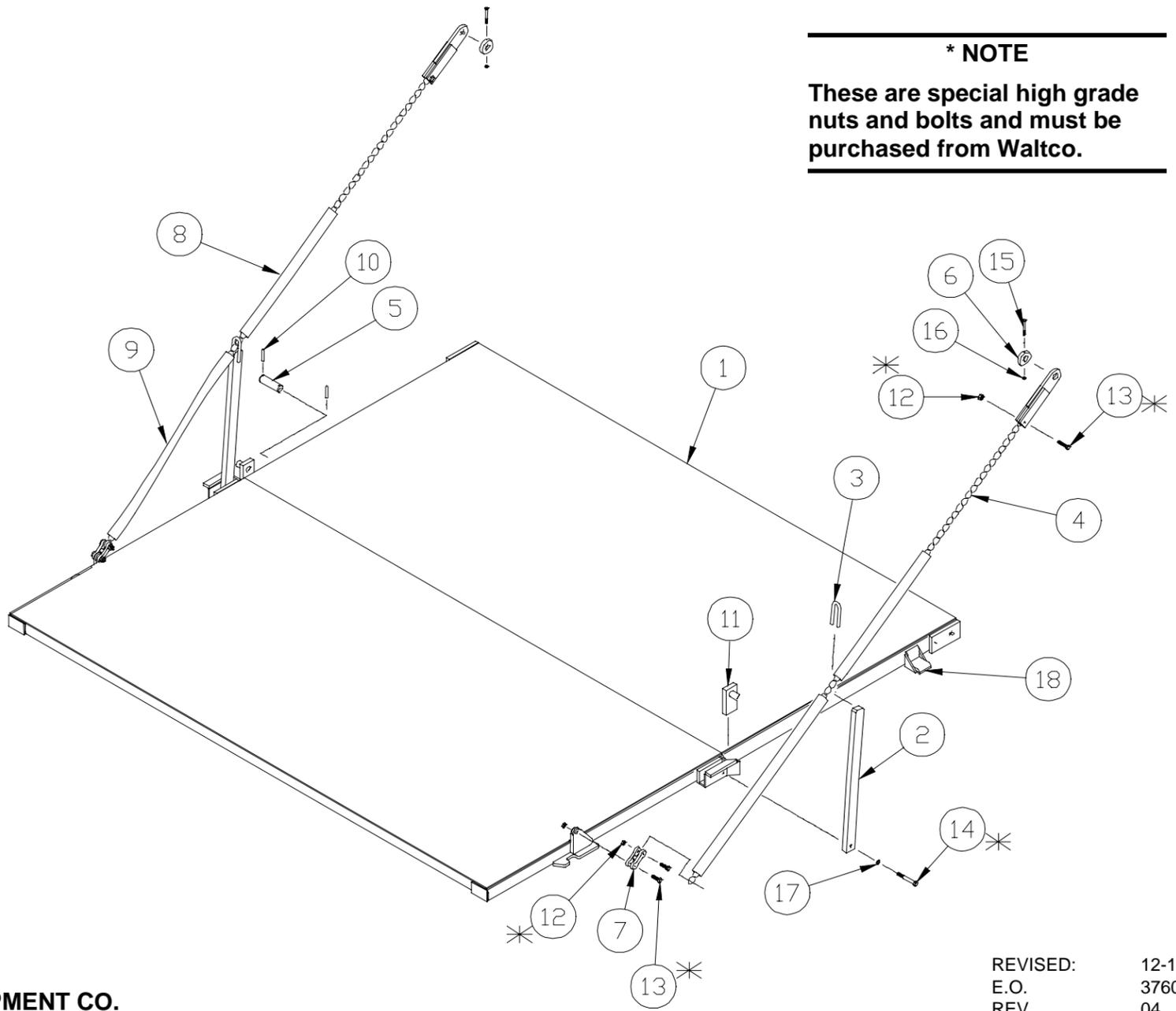
REVISED: 11-2-2001  
E.O. 4088  
REV. 01

**PM-456A**

ITEM	PART NUMBER	QTY	DESCRIPTION
A	31410005	1	Platform Assy Comp, 60"x80"+15" Ramp
	31410007	1	Platform Assy Comp, 60"x80"+15" Ramp w/ Cart Stop
	31410009	1	Platform Assy Comp, 72"x80"+15" Ramp
	31410011	1	Platform Assy Comp, 72"x80"+15" Ramp w/ Cart Stop
	32410005	1	Platform Assy Comp, 60"x86"+15" Ramp
	32410007	1	Platform Assy Comp, 60"x86"+15" Ramp w/ Cart Stop
	32410009	1	Platform Assy Comp, 72"x86"+15" Ramp
	32410011	1	Platform Assy Comp, 72"x86"+15" Ramp w/ Cart Stop
1	31411005	1	Deck Assy, 60"x80"+15"
	31411007	1	Deck Assy, 42"x80" (72"+15" & 86" B.E. Platforms)
	32411005	1	Deck Assy, 60"x86"+15"
	32411007	1	Deck Assy, 42"x86" (72"+15" & 86" B.E. Platforms)
2	31418003	1	Deck Ext Assy, 60"x80"+15"
	31418004	1	Deck Ext Assy, 60"x80"+15" w/ Cart Stop
	31418005	1	Deck Ext Assy, 72"x80"+15"
	31418006	1	Deck Ext Assy, 72"x80"+15" w/ Cart Stop
	32418003	1	Deck Ext Assy, 60"x86"+15"
	32418004	1	Deck Ext Assy, 60"x86"+15" w/ Cart Stop
	32418005	1	Deck Ext Assy, 72"x86"+15"
32418006	1	Deck Ext Assy, 72"x86"+15" w/ Cart Stop	
3	85803191	1	80" Cart Stop Ramp Assembly Complete (Items 18 Thru 27)
4	85803544	2	Lower Abrasion Sleeve w/ Pop Rivets
5	85803542	2	Upper Abrasion Sleeve w/ Pop Rivets
6	37417501	2	Extension Hinge Pin
7	75086055	2	3/8"-16 x 3/4" Lg. Gr. 5 Hex Bolt
8	75088081	2	3/8" Lock Washer
9	85803391	2	1-1/4" O.D. x 1" I.D. x 1" Lg. Bearing
10	85803456	2	Double Clevis Link (w/ Clevis Pins and Cotter Pins)
11	85803443	2	Connecting Link Bar (72"+15" Ramp Only)
	85803587	2	Connecting Link Bar (60"+15" Ramp Only)
12	75088082	2	7/16" Lock Washer

ITEM	PART NUMBER	QTY	DESCRIPTION
13	85803462	2	7/16"-20 x 1-1/2" Hex Bolt (Grade 8)
14	85803444	2	Connecting Link
15	75088064	1	5/8" Plain Washer
16	31417501	1	Platform Stop Angle Assy
*17	85803463	2	7/16"-20 x 1-3/4" Hex Bolt (Grade 8)
*18	85803464	2	7/16"-20 Lock Nut
19	75085161	1	1/4"-20 Lock Nut
20	85803550	2	Linkage Retainer Collar
*21	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
22	85803596	2	Chain Linkage Assembly (72"+15" Ramp & 60"+15" Ramp Only)
23	35442501	1	Cart Stop Brace Assembly
24	75089752	5	Extension Spring
25	85803192	1	80" Cart Stop Assembly (Cart Stop Platforms Only)
26	35440502	1	Cart Stop Pin Assembly (Cart Stop Platforms Only)
27	35442002	1	Cart Stop Lever Assembly (Cart Stop Platforms Only)
28	75088056	1	1/2" Plain Washer
29	75084052	1	5/32" x 1" Cotter Pin
30	75089547	1	3/16" x 1" Coiled Pin
31	31452001	1	Bottom Stop Hook Assy, Curb Side
32	31452051	1	Bottom Stop Hook Assy, Street Side
*33	75086179	4	3/4"-16 x 4" Lg. Hex Bolt (Grade 5)
*34	75085198	4	3/4"-16 Locknut (Grade 5)

# PLATFORM & LINKAGE (BUTT END)



**\* NOTE**  
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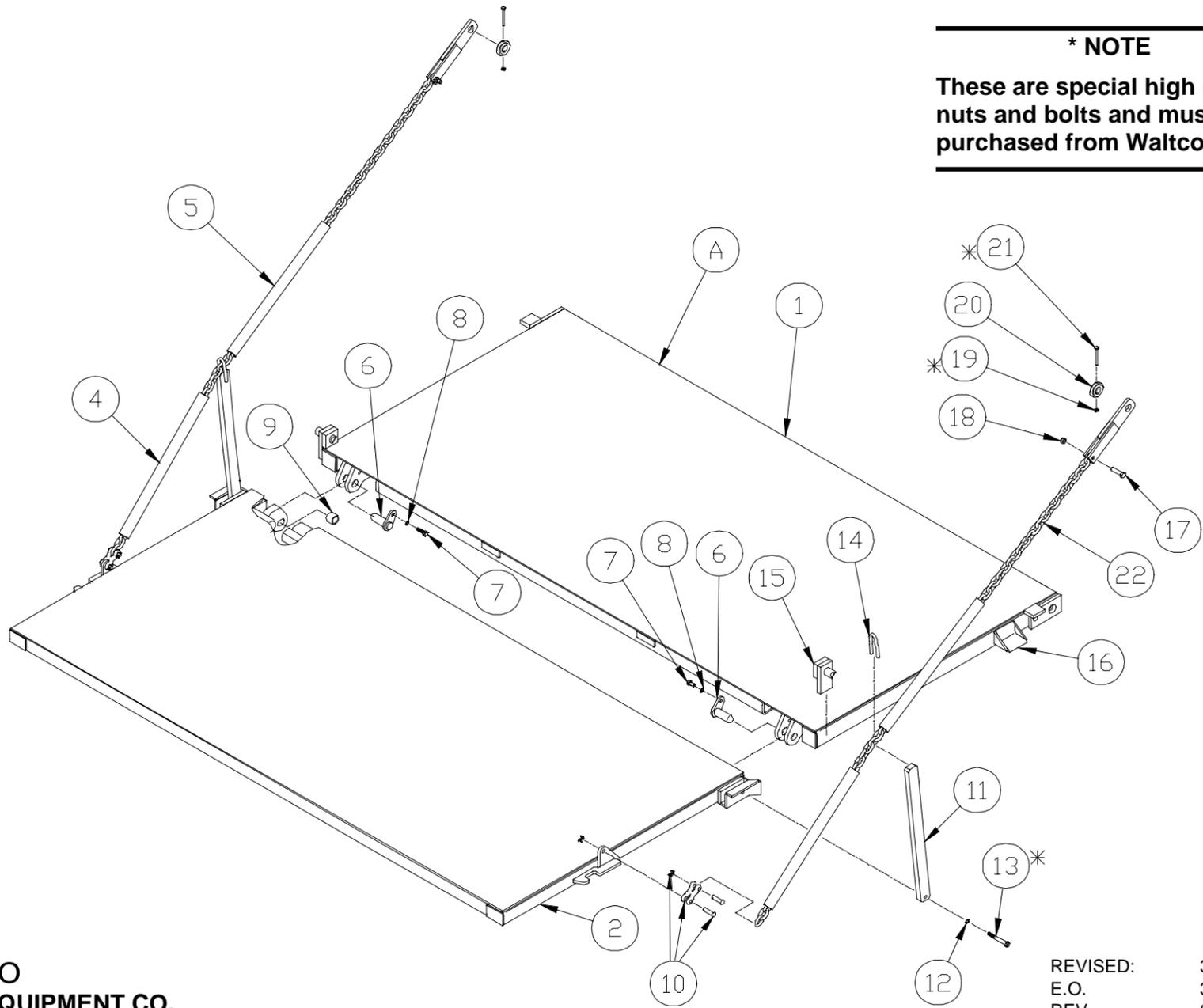
**WALTCO  
 TRUCK EQUIPMENT CO.  
 WDL SERIES**

REVISED: 12-18-98  
 E.O. 3760  
 REV. 04

**PM-296**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803772	1	60" x 80" (Break Even)
	85803628	1	60" x 80" (Break Even) w/ Bottom Stops
	85803701	1	72" x 80" (Break Even)
	85803644	1	72" x 80" (Break Even) w/ Bottom Stops
	85803157	1	86" x 80" (Break Even)
	85803648	1	86" x 80" (Break Even) w/ Bottom Stops
	85803625	1	60" x 86" (Break Even)
	85803629	1	60" x 86" (Break Even) w/ Bottom Stops
	85803704	1	72"x 86" (Break Even)
	85803645	1	72" x 86" (Break Even) w/ Bottom Stops
	85803498	1	86" x 86" (Break Even)
	85803649	1	86" x 86" (Break Even) w/ Bottom Stops
	2	85803443	2
85803587		2	Connecting Link Bar (72" Butt End Only)
85803589		2	Connecting Link Bar (60" Butt End Only)
3	85803444	2	Connecting Link
4	85803596	2	Chain Linkage Assembly (86" Butt End & 72" Butt End)
	85803592	2	Chain Linkage Assembly (60" Butt End Only)
5	85803105	2	Extension Hinge Pin
6	85803550	2	Linkage Retainer Collar
7	85803456	2	Double Clevis Link
8	85803542	2	Upper Abrasion Sleeve w/ Pop Rivets
9	85803544	2	Lower Abrasion Sleeve w/ Pop Rivets
10	75089541	4	1/4" x 1-7/8" Coil Pin
11	85803561	2	Platform Bottom Stop Pin Assembly (Bottom Stop Platforms Only)
*12	85803464	6	7/16"-20 Lock Nut
*13	85803463	4	7/16"-20 x 1-3/4" Hex Bolt (Grade 8)
*14	85803462	2	7/16"-20 x 1-1/2" Hex Bolt (Grade 8)
15	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
16	75085175	2	1/4"-20 Lock Nut
17	75088082	2	7/16" Lock Washer
18	85803799	2	Platform Stop Angle Assembly

**PLATFORM & LINKAGE (BUTT END) (96" Wide Liftgates)**



**\* NOTE**

These are special high grade nuts and bolts and must be purchased from Waltco.

**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES (96" Wide)**

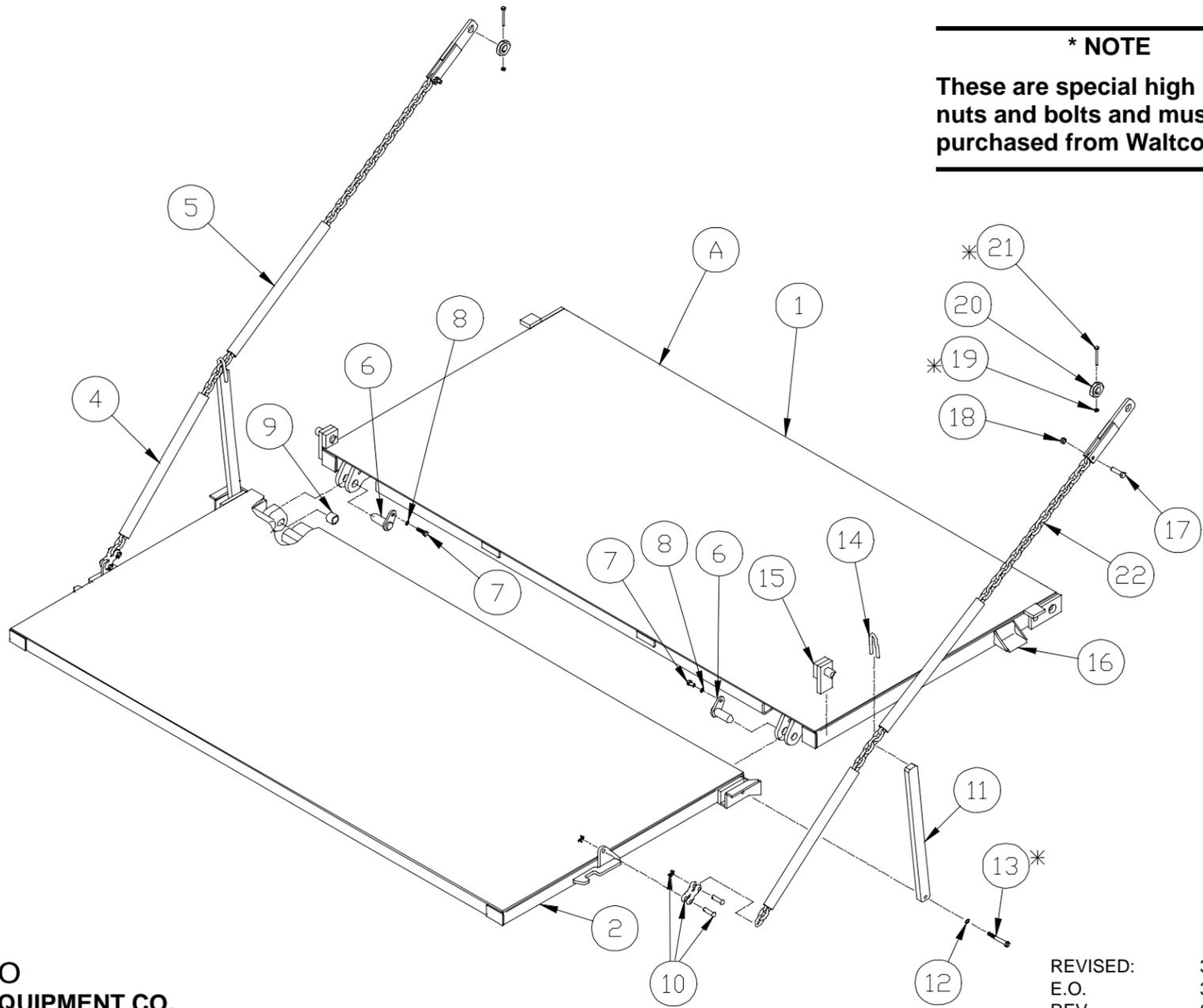
REVISED: 3-1-99  
E.O. 3831A  
REV. 03

**PM-457**

ITEM	PART NUMBER	QTY	DESCRIPTION
A	31410001	1	Platform Assy Complete, 60" x 80" B.E.
	31410002	1	Platform Assy Complete, 60" x 80" B.E. w/ Bottom Stops
	31410003	1	Platform Assy Complete, 72" x 80" B.E.
	31410004	1	Platform Assy Complete, 72" x 80" B.E. w/ Bottom Stops
	31410013	1	Platform Assy Complete, 86" x 80" B.E.
	31410014	1	Platform Assy Complete, 86" x 80" B.E. w/ Bottom Stops
1	31411001	1	Deck Assy, 60" x 80" B.E.
	31411002	1	Deck Assy, 60" x 80" B.E. w/ Bottom Stops
	31411003	1	Deck Assy, 72" x 80" B.E.
	31411004	1	Deck Assy, 72" x 80" B.E. w/ Bottom Stops
	31411007	1	Deck Assy, 86" x 80" B.E.
	31411008	1	Deck Assy, 86" x 80" B.E. w/ Bottom Stops
2	31418001	1	Deck Ext Assy, 60" x 80" B.E.
	31418002	1	Deck Ext Assy, 72" x 80" B.E.
	31418007	1	Deck Ext Assy, 86" x 80" B.E.
4	85803544	2	Lower Abrasion Sleeve w/ Pop Rivets
5	85803542	2	Upper Abrasion Sleeve w/ Pop Rivets
6	37417501	2	Extension Hinge Pin
7	75086055	2	3/8"-16 x 3/4" Lg. Gr. 5 Hex Bolt
8	75088081	2	3/8" Lock Washer
9	85803391	2	1-1/4" O.D. x 1" I.D. x 1" Lg. Bearing
10	85803456	2	Double Clevis Link (w/ Clevis Pins and Cotter Pins)
11	85803587	2	Connecting Link Bar (60" B.E. & 72" B.E. Only)
	85803443	2	Connecting Link Bar (86" B.E. Only)
12	75088082	2	7/16" Lock Washer
13	85803462	2	7/16"-20 x 1-1/2" Hex Bolt (Grade 8)
14	85803444	2	Connecting Link
15	85803561	2	Platform Bottom Stop Pin Assembly (Bottom Stop Platforms Only)
16	31417501	1	Platform Stop Angle Assembly
*17	85803463	2	7/16"-20 x 1-3/4" Hex Bolt (Grade 8)
*18	85803464	2	7/16"-20 Lock Nut
19	75085161	1	1/4"-20 Lock Nut

ITEM	PART NUMBER	QTY	DESCRIPTION
20	85803550	2	Linkage Retainer Collar
*21	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
22	85803592	2	Chain Linkage Assembly (60" B.E. Only)
	85803596	2	Chain Linkage Assy (72" B.E. & 86" B.E. Only)

**PLATFORM & LINKAGE (BUTT END) (102" Wide Liftgates)**



**\* NOTE**

These are special high grade nuts and bolts and must be purchased from Waltco.

**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES (102" Wide)**

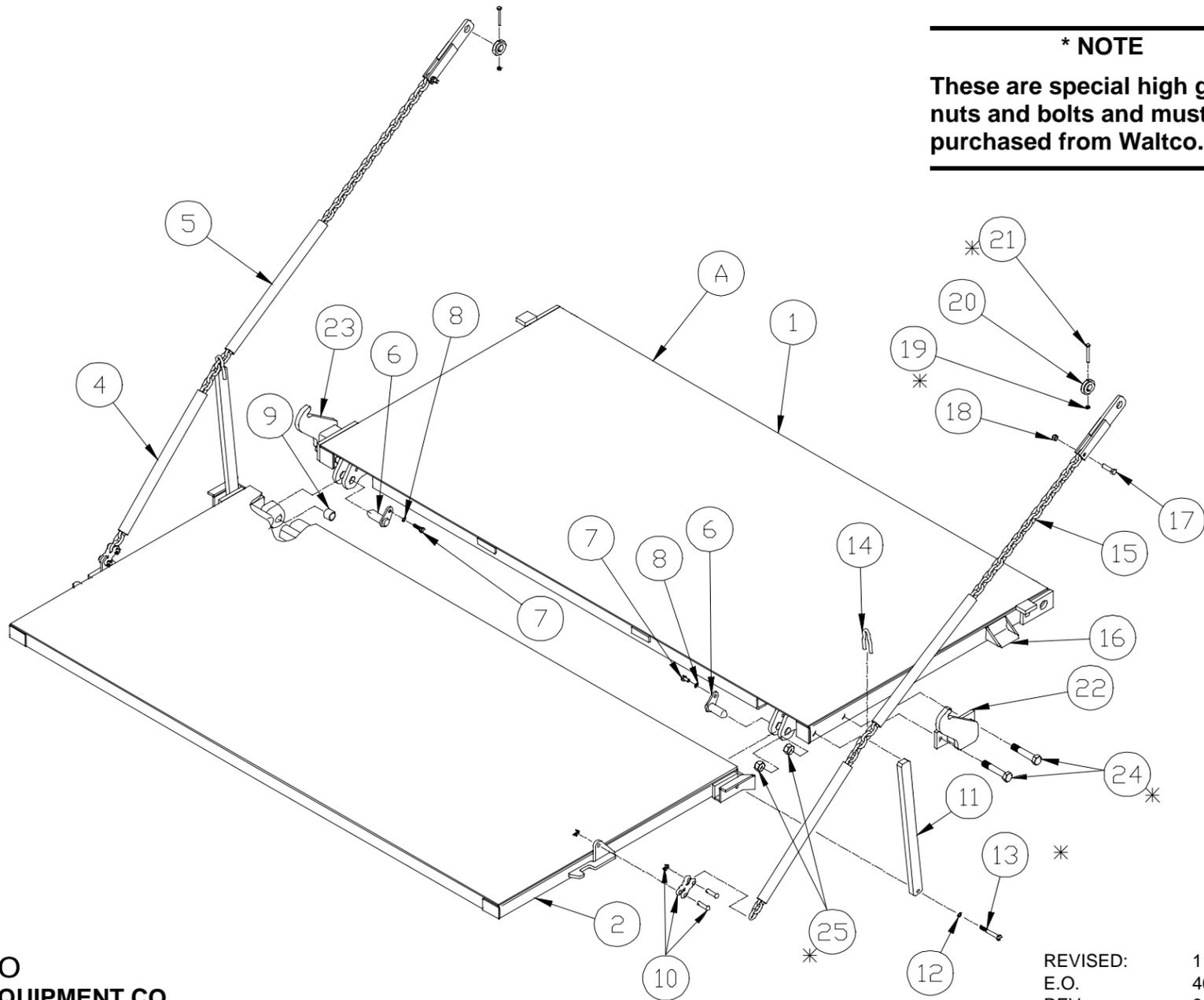
REVISED: 3-1-99  
E.O. 3831A  
REV. 03

**PM-483**

ITEM	PART NUMBER	QTY	DESCRIPTION
A	32410001	1	Platform Assy Complete 60" x 86" B.E.
	32410002	1	Platform Assy Complete 60" x 86" B.E. w/ Bottom Stops
	32410003	1	Platform Assy Complete 72" x 86" B.E.
	32410004	1	Platform Assy Complete 72" x 86" B.E. w/ Bottom Stops
	32410013	1	Platform Assy Complete 86" x 86" B.E.
	32410014	1	Platform Assy Complete 86" x 86" B.E. w/ Bottom Stops
1	32411001	1	Deck Assy 60" x 86" B.E.
	32411002	1	Deck Assy 60" x 86" B.E. w/ Bottom Stops
	32411003	1	Deck Assy 72" x 86" B.E.
	32411004	1	Deck Assy 72" x 86" B.E. w/ Bottom Stops
	32411007	1	Deck Assy 86" x 86" B.E.
	32411008	1	Deck Assy 86" x 86" B.E. w/ Bottom Stops
2	32418001	1	Deck Ext Assy 60" x 86" B.E.
	32418002	1	Deck Ext Assy 72" x 86" B.E.
	32418007	1	Deck Ext Assy 86" x 86" B.E.
3	85803418	1	86" Cart Stop Ramp Assembly Complete (Items 23 Thru 31)
4	85803544	2	Lower Abrasion Sleeve w/ Pop Rivets
5	85803542	2	Upper Abrasion Sleeve w/ Pop Rivets
6	37417501	2	Extension Hinge Pin
7	75086055	2	3/8"-16 x 3/4" Lg. Gr. 5 Hex Bolt
8	75088081	2	3/8" Lock Washer
9	85803391	2	1-1/4" O.D. x 1" I.D. x 1" Lg. Bearing
10	85803456	2	Double Clevis Link (w/ Clevis Pins and Cotter Pins)
11	85803587	2	Connecting Link Bar (60" B.E. & 72" B.E. Only)
	85803443	2	Connecting Link Bar (86" B.E. Only)
12	75088082	2	7/16" Lock Washer
13	85803462	2	7/16"-20 x 1-1/2" Hex Bolt (Grade 8)
14	85803444	2	Connecting Link
15	85803561	2	Platform Bottom Stop Pin Assembly (Bottom Stop Platforms Only)
16	31417501	1	Platform Stop Angle Ass'y
*17	85803463	2	7/16"-20 x 1-3/4" Hex Bolt (Grade 8)
*18	85803464	2	7/16"-20 Lock Nut
19	75085161	1	1/4"-20 Lock Nut

ITEM	PART NUMBER	QTY	DESCRIPTION
20	85803550	2	Linkage Retainer Collar
*21	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
22	85803592	2	Chain Linkage Assembly (60" B.E. Only)
	85803596	2	Chain Linkage Assy (72" B.E. & 86" B.E. Only)

# PLATFORM & LINKAGE (BUTT END)



**\* NOTE**

These are special high grade nuts and bolts and must be purchased from Waltco.

**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES**

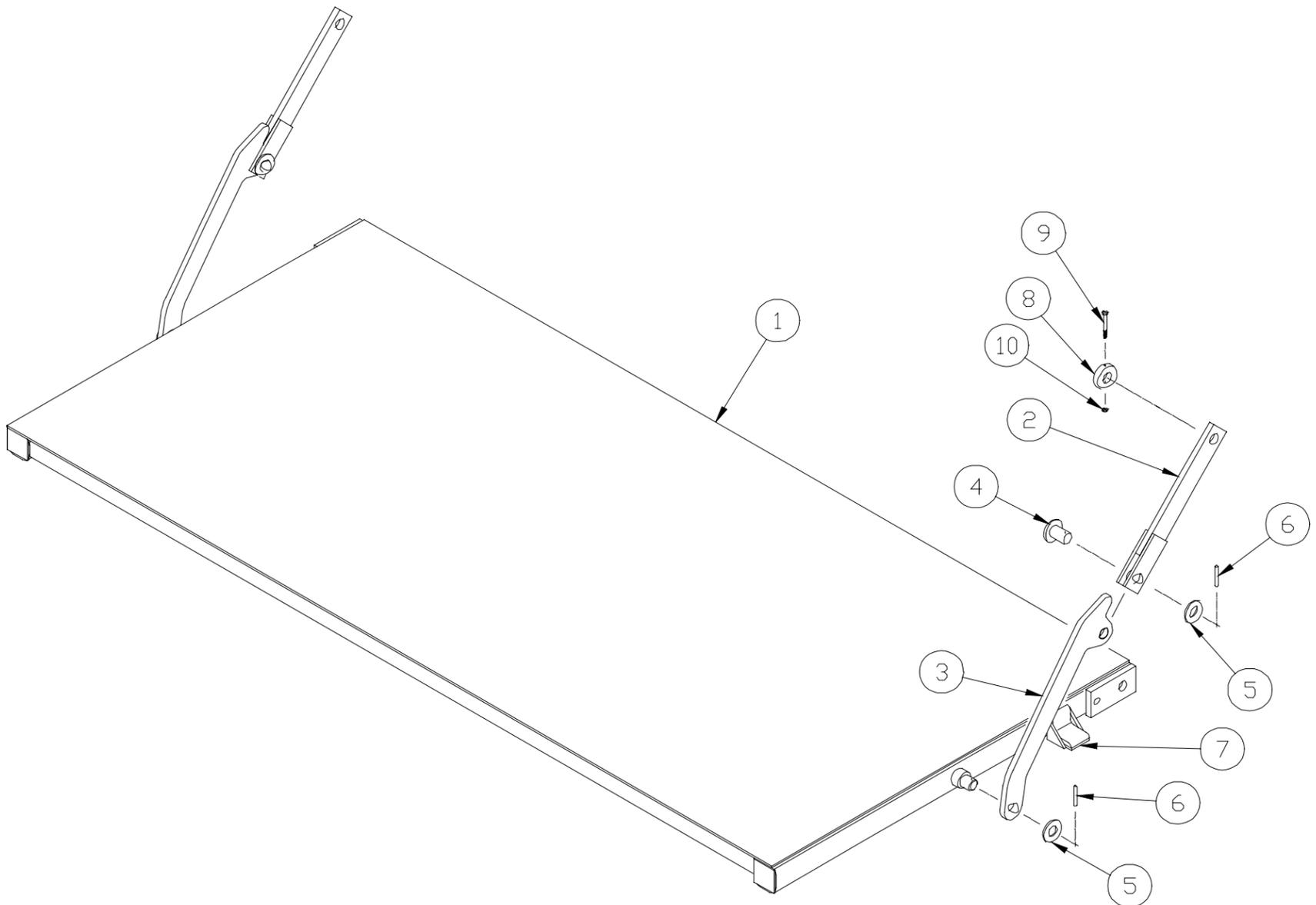
REVISED: 11-2-2001  
E.O. 4088  
REV. 01

**PM-457A**

ITEM	PART NUMBER	QTY	DESCRIPTION
A	31410001	1	Platform Assy Complete, 60" x 80" B.E.
	31410003	1	Platform Assy Complete, 72" x 80" B.E.
	31410013	1	Platform Assy Complete, 86" x 80" B.E.
	32410001	1	Platform Assy Complete, 60" x 86" B.E.
	32410003	1	Platform Assy Complete, 72" x 86" B.E.
	32410013	1	Platform Assy Complete, 86" x 86" B.E.
1	31411001	1	Deck Assy, 60" x 80" B.E.
	31411005	1	Deck Assy, 72" x 80" B.E.
	31411007	1	Deck Assy, 86" x 80" B.E.
	32411001	1	Deck Assy, 60" x 86" B.E.
	32411005	1	Deck Assy, 72" x 86" B.E.
	32411007	1	Deck Assy, 86" x 86" B.E.
2	31418001	1	Deck Ext Assy, 60" x 80" B.E.
	31418002	1	Deck Ext Assy, 72" x 80" B.E.
	31418007	1	Deck Ext Assy, 86" x 80" B.E.
	32418001	1	Deck Ext Assy, 60" x 86" B.E.
	32418002	1	Deck Ext Assy, 72" x 86" B.E.
	32418007	1	Deck Ext Assy, 86" x 86" B.E.
4	85803544	2	Lower Abrasion Sleeve w/ Pop Rivets
5	85803542	2	Upper Abrasion Sleeve w/ Pop Rivets
6	37417501	2	Extension Hinge Pin
7	75086055	2	3/8"-16 x 3/4" Lg. Gr. 5 Hex Bolt
8	75088081	2	3/8" Lock Washer
9	85803391	2	1-1/4" O.D. x 1" I.D. x 1" Lg. Bearing
10	85803456	2	Double Clevis Link (w/ Clevis Pins and Cotter Pins)
11	85803587	2	Connecting Link Bar (60" B.E. & 72" B.E. Only)
	85803443	2	Connecting Link Bar (86" B.E. Only)
12	75088082	2	7/16" Lock Washer
13	85803462	2	7/16"-20 x 1-1/2" Hex Bolt (Grade 8)
14	85803444	2	Connecting Link
15	85803592	2	Chain Linkage Assembly (60" B.E. Only)
	85803596	2	Chain Linkage Assy (72" B.E. & 86" B.E. Only)
16	31417501	1	Platform Stop Angle Assembly
*17	85803463	2	7/16"-20 x 1-3/4" Hex Bolt (Grade 8)
*18	85803464	2	7/16"-20 Lock Nut
19	75085161	1	1/4"-20 Lock Nut
20	85803550	2	Linkage Retainer Collar

ITEM	PART NUMBER	QTY	DESCRIPTION
*21	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
22	31452001	1	Bottom Stop Hook Assy, Curb Side
23	31452051	1	Bottom Stop Hook Assy, Street Side
*24	75086179	4	3/4"-16 x 4" lg. Hex Bolt (Grade 5)
*25	75085198	4	3/4"-16 Locknut (Grade 5)

**PLATFORM & LINKAGE (One Piece)**



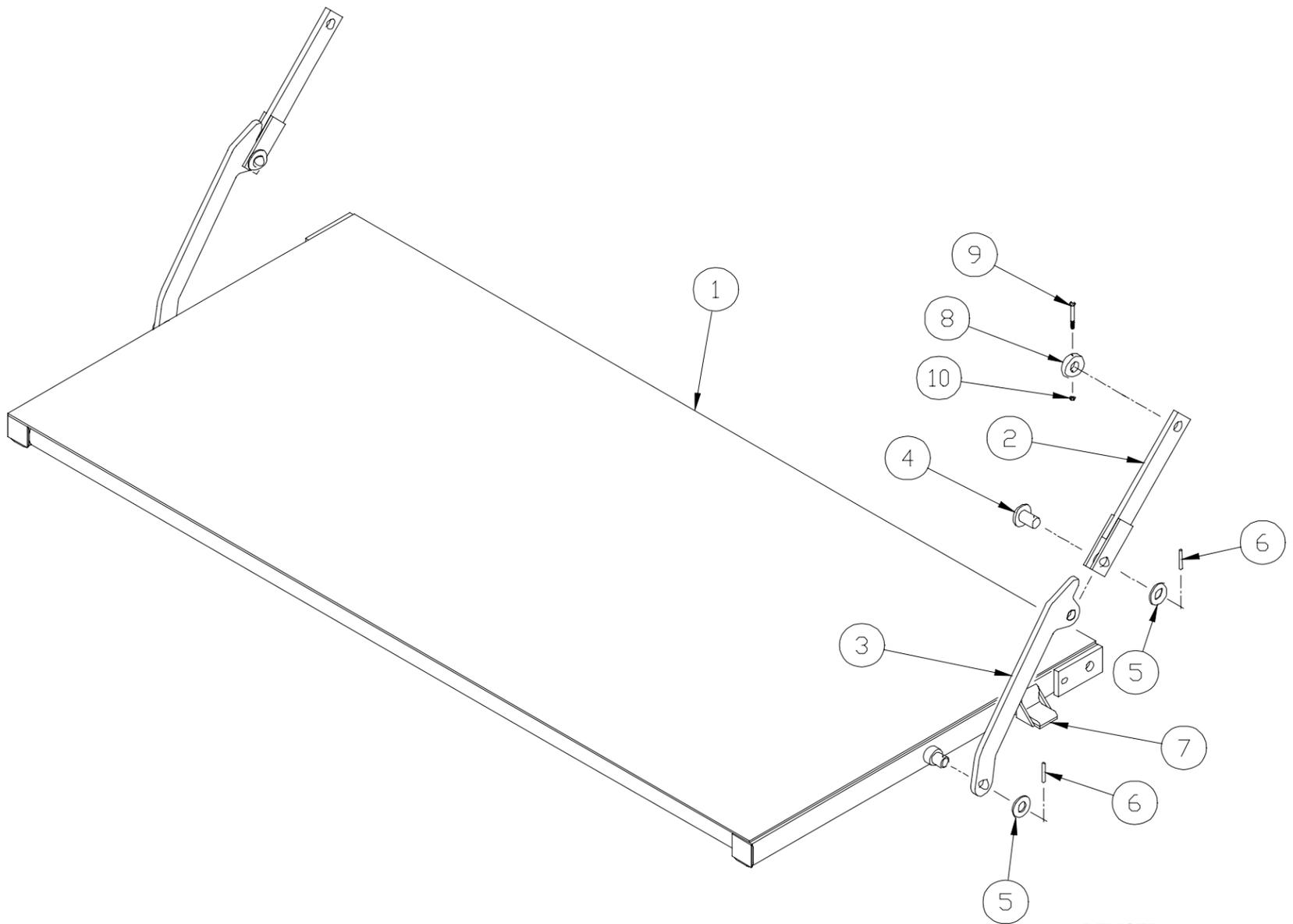
**WALTCO  
TRUCK EQUIPMENT CO.  
WDL SERIES**

REVISED: 12-18-98  
E.O. 3760  
REV. 04

**PM-297**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803400	1	42" x 80" Butt End Platform
	85803721	1	42" x 86" Butt End Platform
2	85803407	2	Upper Link Assembly
3	85803408	2	Lower Link
4	85803406	2	Pin Assembly
5	75088061	4	1" Plain Washer
6	75089541	4	1/4" x 1-7/8" Coiled Pin
7	85803799	1	Platform Stop
8	85803550	2	Linkage Retainer Collar
9	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
10	75085175	2	1/4"-20 Lock Nut

**PLATFORM & LINKAGE (ONE PIECE)**



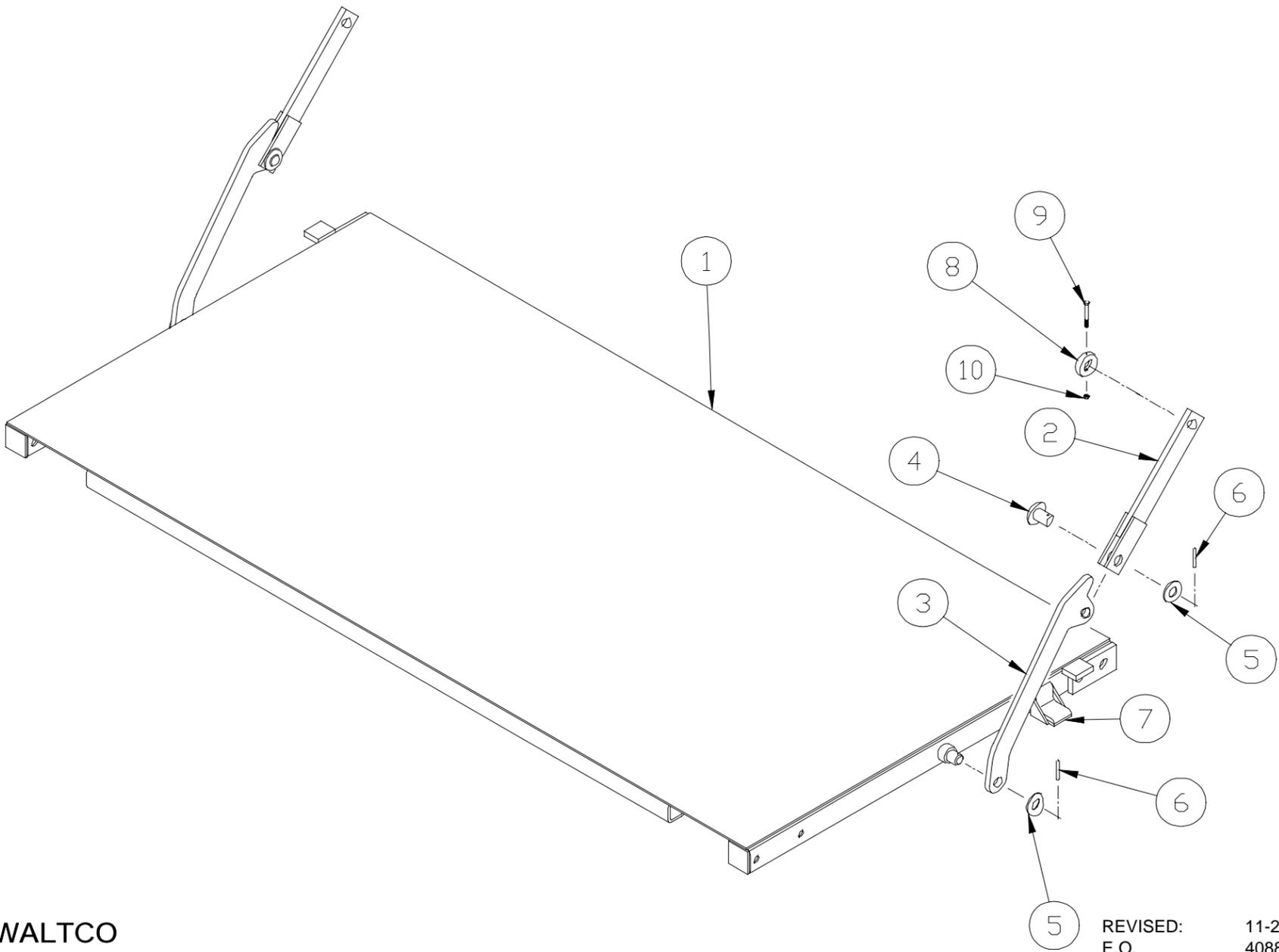
**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES**

REVISED: 3-1-99  
E.O. 3831A  
REV. 03

**PM-458**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31411009	1	42" x 80" Butt End Platform
	31411010	1	42" x 80" Butt End Platform w/ Bottom Stops
	32411009	1	42" x 86" Butt End Platform
	32411010	1	42" x 86" Butt End Platform w/ Bottom Stops
2	85803407	2	Upper Link Assembly
3	85803408	2	Lower Link
4	85803406	2	Pin Assembly
5	75088061	4	1" Plain Washer
6	75089541	4	1/4" x 1-7/8" Coiled Pin
7	85803799	1	Platform Stop
8	85803550	2	Linkage Retainer Collar
9	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
10	75085161	2	1/4"-20 Lock Nut

**PLATFORM & LINKAGE (ONE PIECE)**



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WDL RM SERIES**

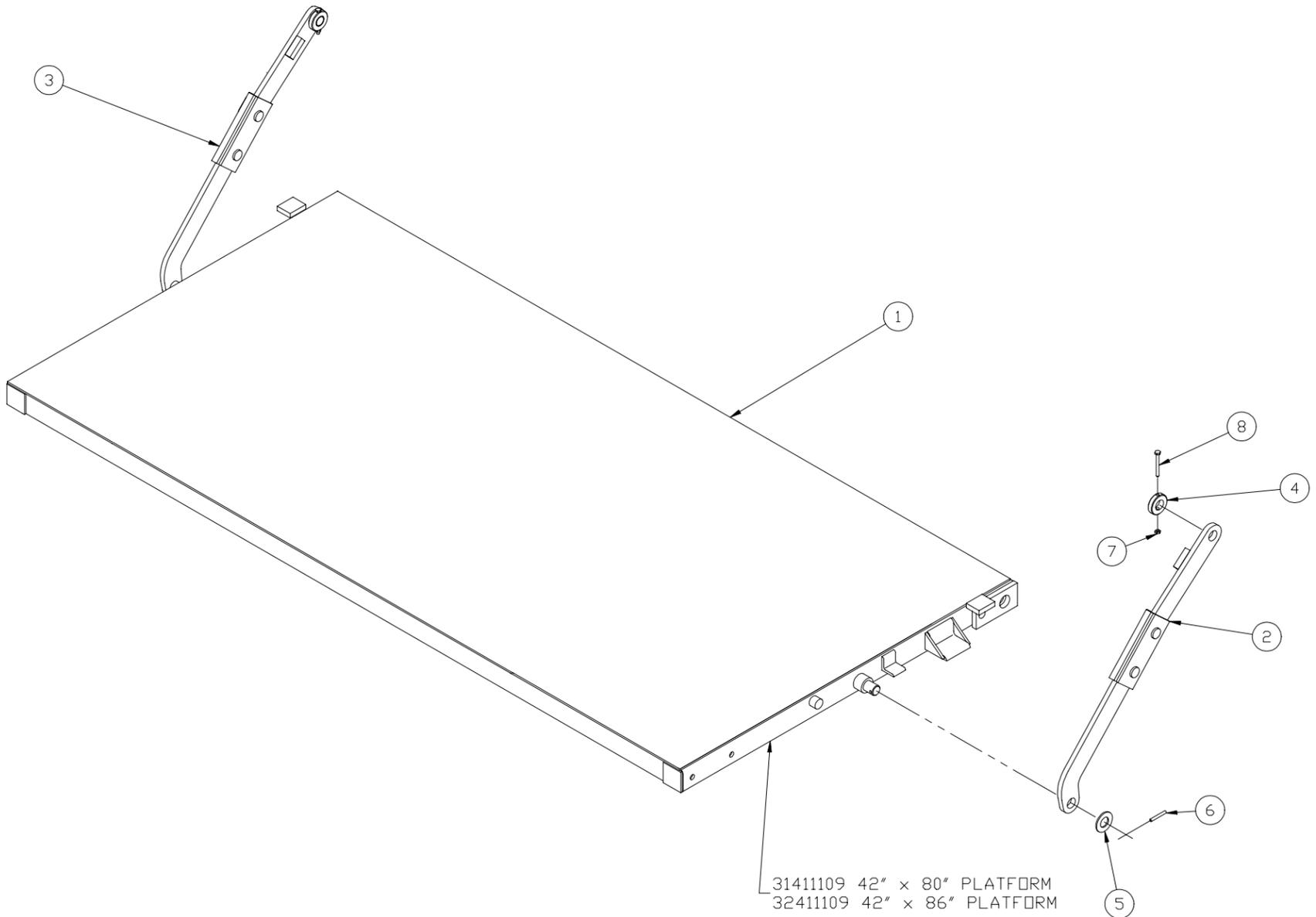
REVISED:  
E.O.  
REV.

11-2-2001  
4088  
01

**PM-458A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31411009	1	42" x 80" Butt End Platform
	32411009	1	42" x 86" Butt End Platform
2	85803407	2	Upper Link Assembly
3	85803408	2	Lower Link
4	85803406	2	Pin Assembly
5	75088061	4	1" Plain Washer
6	75089541	4	1/4" x 1-7/8" Coiled Pin
7	85803799	1	Platform Stop
8	85803550	2	Linkage Retainer Collar
9	75086215	2	1/4"-20 x 2-1/2" Hex Bolt
10	75085161	2	1/4"-20 Lock Nut

**PLATFORM & LINKAGE (ONE PIECE)**



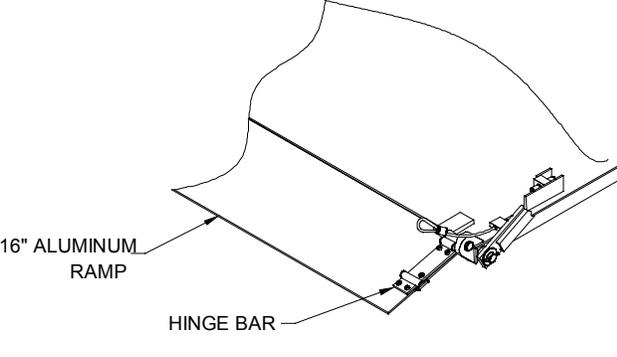
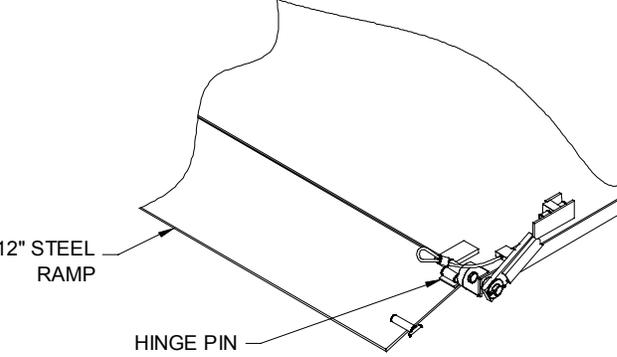
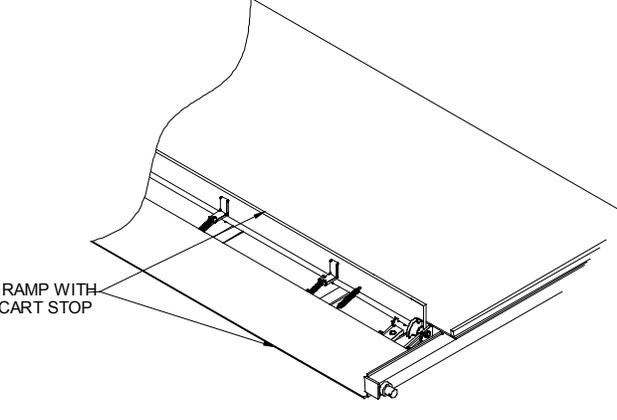
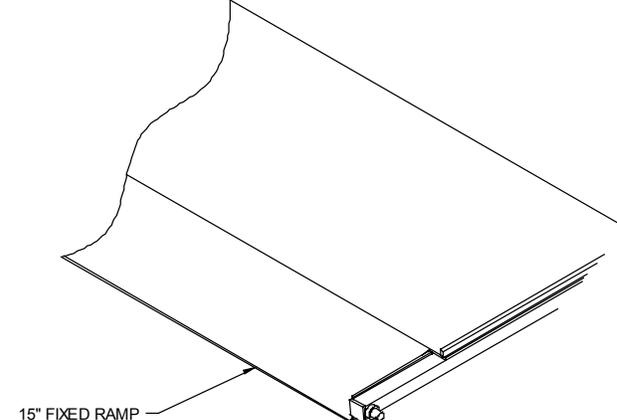
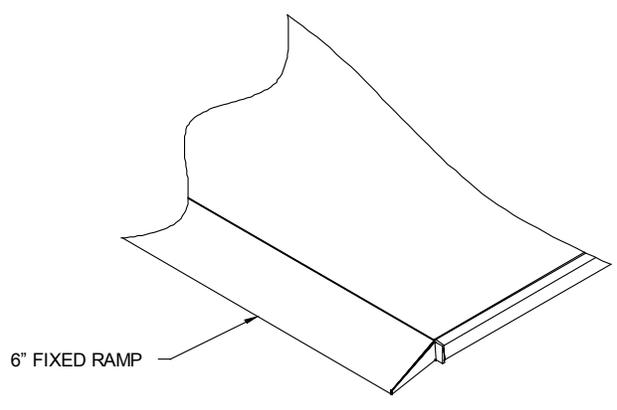
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**TRUCK EQUIPMENT CO.**  
**WDL RM SERIES**

REVISED: 7-16-03  
 E.O. 5088  
 REV. 01

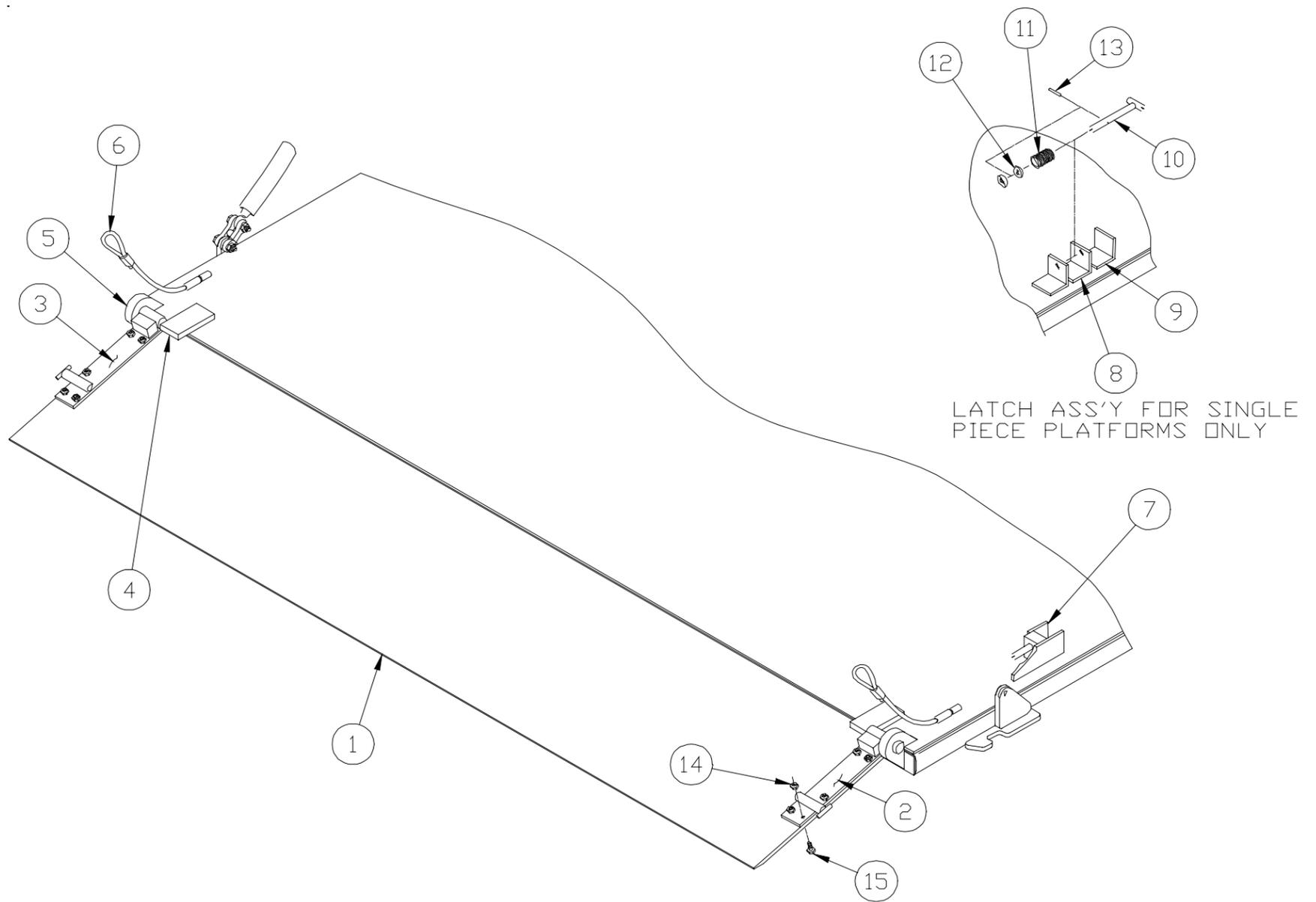
**PM-458B**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31411109	1	42" x 80" Butt End Platform
	32411109	1	42" x 86" Butt End Platform
2	31255001	1	C.S. Link Assembly
3	31255051	1	D.S. Link Assembly
4	85803550	2	Linkage Retainer Collar
5	75088061	2	1" Plain Washer
6	75089541	2	1/4" x 1-7/8" Coiled Pin
7	75085161	2	1/4"-20 Lock Nut
8	75086215	2	1/4"-20 x 2-1/2" Hex Bolt

# WDL-SERIES RAMPS

 <p>16" ALUMINUM RAMP</p> <p>HINGE BAR</p>	 <p>12" STEEL RAMP</p> <p>HINGE PIN</p>
<p><b>PM-298 (prior to 11-01)</b> <b>PM-298A (after 11-01)</b></p>	<p><b>PM-298 (prior to 11-01)</b> <b>PM-298A (after 11-01)</b></p>
 <p>15" RAMP WITH CART STOP</p>	 <p>15" FIXED RAMP</p>
<p><b>PM-295 (all widths) thru 10/98</b> <b>PM-456 (80") 10/98 thru 1/02</b> <b>PM-482 (86") 10/98 thru 1/02</b> <b>PM-456A (all widths) after 1/02</b></p>	<p><b>PM-295 (all widths) thru 10/98</b> <b>PM-456 (80") 10/98 thru 1/02</b> <b>PM-482 (86") 10/98 thru 1/02</b> <b>PM-456A (all widths) after 1/02</b></p>
 <p>6" FIXED RAMP</p>	 <p>6" FIXED RAMP</p>
	<p><b>PM-297 thru 10/98</b> <b>PM-458 10/98 thru 1/02</b> <b>PM-458A 1/02 thru 7/03</b> <b>PM-458B after 7/03</b></p>

# 16" ALUMINUM & 12" STEEL FOLDING RAMPS



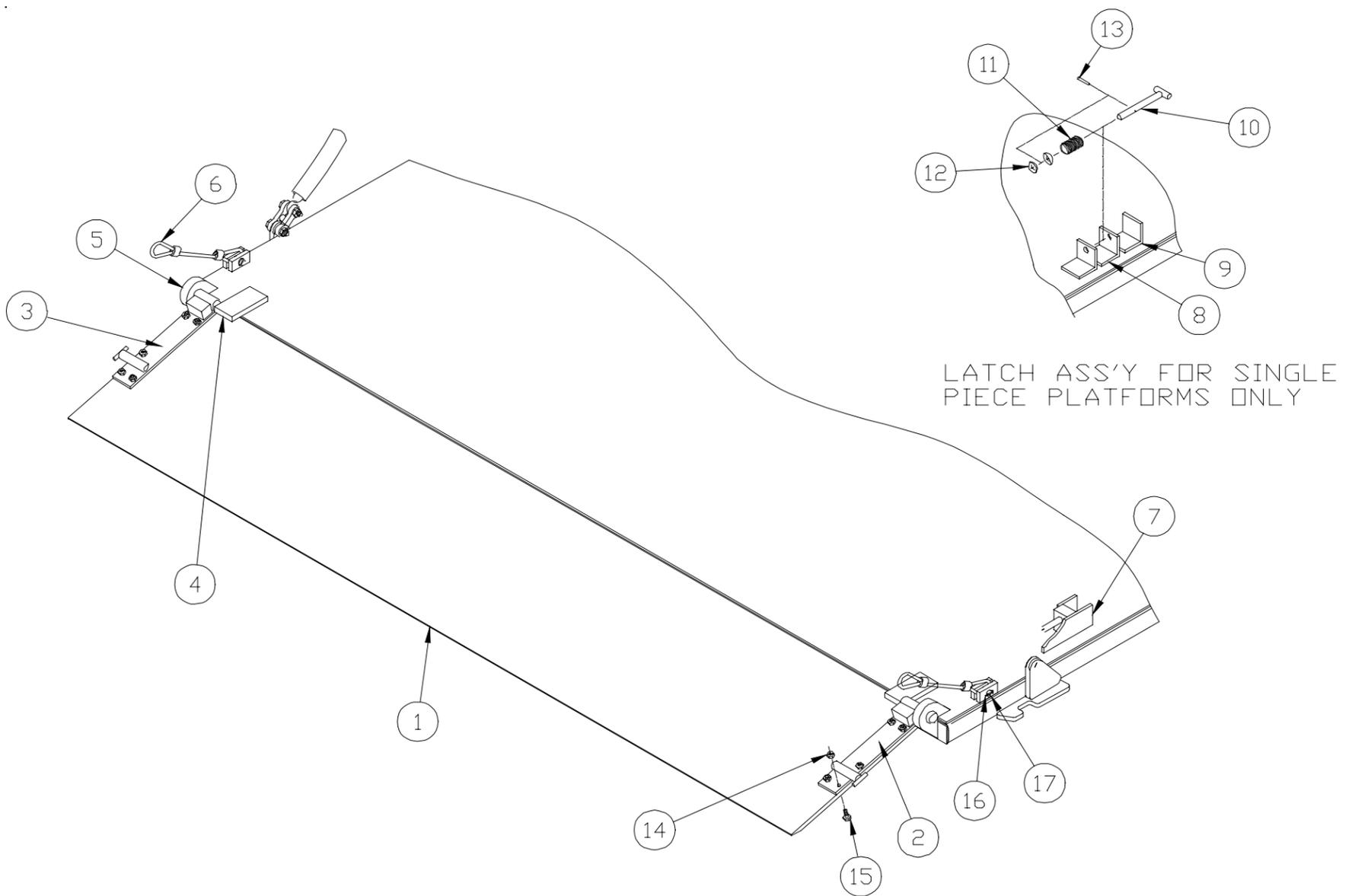
**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES**

REVISED: 12-11-98  
E.O. 3736  
REV. 04

**PM-298**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803187	1	16" Aluminum Ramp (80" Platform)
	85803151	1	16" Aluminum Ramp (86" Platform)
	31416501	1	12" Steel Folding Ramp (80" Platform)
	32416501	1	12" Steel Folding Ramp (86" Platform)
2	37415501	1	Curb Side Hinge Plate Assembly (Aluminum Ramp Only)
3	37415551	1	Street Side Hinge Plate Assembly (Aluminum Ramp Only)
4	37415401	2	Ramp Brace Bar
5	37414801	2	Ramp Hinge Clevis
6	37419501	2	Retention Cable Assembly
7	37414501	1	Ramp Latch Assembly (2 Pc. Platform Only)
8	85803484	2	Ramp latch Angle (1 Pc. Platform Only)
9	85803488	1	Pin Guard Angle (1 Pc. Platform Only)
10	85803485	1	Ramp Latch Pin Assembly (1 Pc. Platform Only)
11	20215400	1	Ramp Latch Pin Spring (1 Pc. Platform Only)
12	75088056	2	1/2" Plain Washer (1 Pc. Platform Only)
13	75089553	1	1/4" x 1-1/4" Coiled Pin (1 Pc. Platform Only)
14	75085193	10	3/8"-16 Hex Lock Nut (Aluminum Ramp Only)
15	75086057	10	3/8"-16 x 1-1/4" Hex Head Bolt (Aluminum Ramp Only)

# 16" ALUMINUM & 12" STEEL FOLDING RAMPS



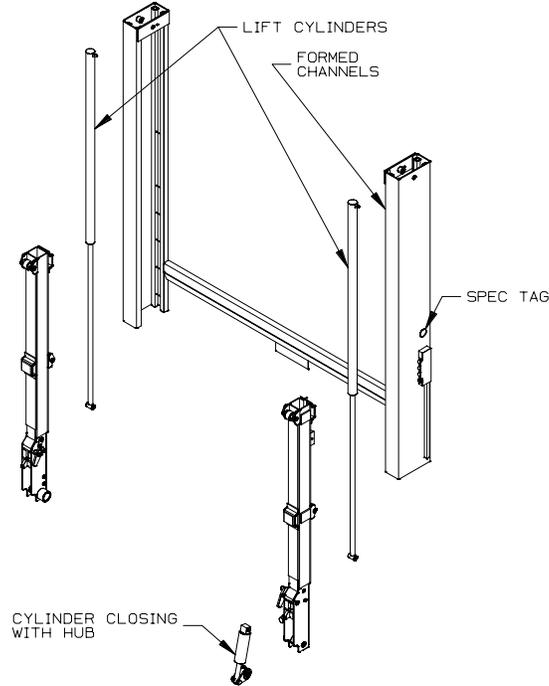
**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES**

REVISED: 11-2-2001  
E.O. 4088  
REV. 01

**PM-298A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803187	1	16" Aluminum Ramp (80" Platform)
	85803151	1	16" Aluminum Ramp (86" Platform)
	31416501	1	12" Steel Folding Ramp (80" Platform)
	32416501	1	12" Steel Folding Ramp (86" Platform)
2	37415501	1	Curb Side Hinge Plate Assembly (Aluminum Ramp Only)
3	37415551	1	Street Side Hinge Plate Assembly (Aluminum Ramp Only)
4	37415401	2	Ramp Brace Bar
5	37414801	2	Ramp Hinge Clevis
6	37419502	2	Retention Cable Assembly
7	37414501	1	Ramp Latch Assembly (2 Pc. Platform Only)
8	85803484	2	Ramp latch Angle (1 Pc. Platform Only)
9	85803488	1	Pin Guard Angle (1 Pc. Platform Only)
10	85803485	1	Ramp Latch Pin Assembly (1 Pc. Platform Only)
11	20215400	1	Ramp Latch Pin Spring (1 Pc. Platform Only)
12	75088056	2	1/2" Plain Washer (1 Pc. Platform Only)
13	75089553	1	1/4" x 1-1/4" Coiled Pin (1 Pc. Platform Only)
14	75085193	10	3/8"-16 Hex Lock Nut (Aluminum Ramp Only)
15	75086057	10	3/8"-16 x 1-1/4" Hex Head Bolt (Aluminum Ramp Only)
16	75084053	2	3/32" x 1" lg. Cotter Pin
17	27310303	2	1/2" Dia. Clevis Pin

# WDL MAIN FRAME and RUNNER ASSEMBLY



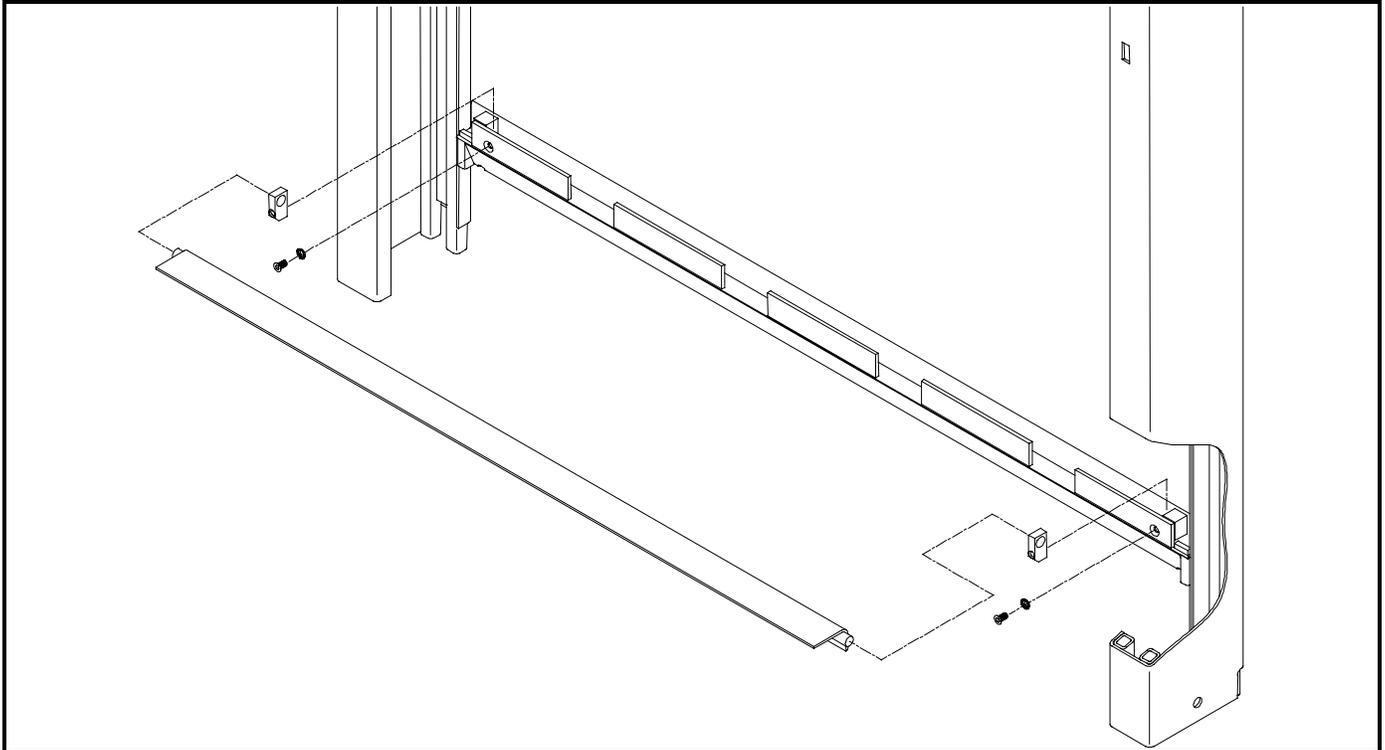
## Common Features

- Capacity: 3500, 4500, 5500, and 6600 pounds
- Cylinder closing with closure hub ♦
- Dual lifting cylinders mounted vertically
- Formed channels for cylinders and runners
- Spec tag on rail
- Options available: Bottom Stops, Store Below Bed
- Threshold Extension (crossbeam with flip-up plate) option (see following page for more information).

Standard (96" and 102")	Bottom Stops (96" and 102")	Store Below (96" and 102")
<p><b>PM-294</b> Built thru 10/98</p> <p><b>PM-475</b> Built from 10/98 thru 1/02</p> <p><b>PM-475A</b> Built from 1/02</p>	<p>Contact Waltco for liftgates built prior to 9/94</p> <p><b>PM-385</b> Built from 9/94 thru 10/98</p> <p><b>PM-476</b> Built from 10/98 thru 1/02</p> <p><b>PM-475A</b> Built from 1/02 thru 7/03</p> <p><b>PM-475B</b> Built from 7/03</p>	<p><b>PM-386</b> Built thru 10/98</p> <p><b>PM-477</b> Built from 10/98 thru 1/02</p> <p><b>PM-477A</b> Built from 1/02</p>

- ♦ Closure hub kit must be purchased when ordering hubs or closure cylinder on gates built before 4/1/95. Part # 80000654. Refer to [Tech Tip TT970001](#) for more information.

# WDL THRESHOLD EXTENSION



**Standard (96" and 102")**

Contact Engineering for Liftgates built prior to 6/95

**PM-363**

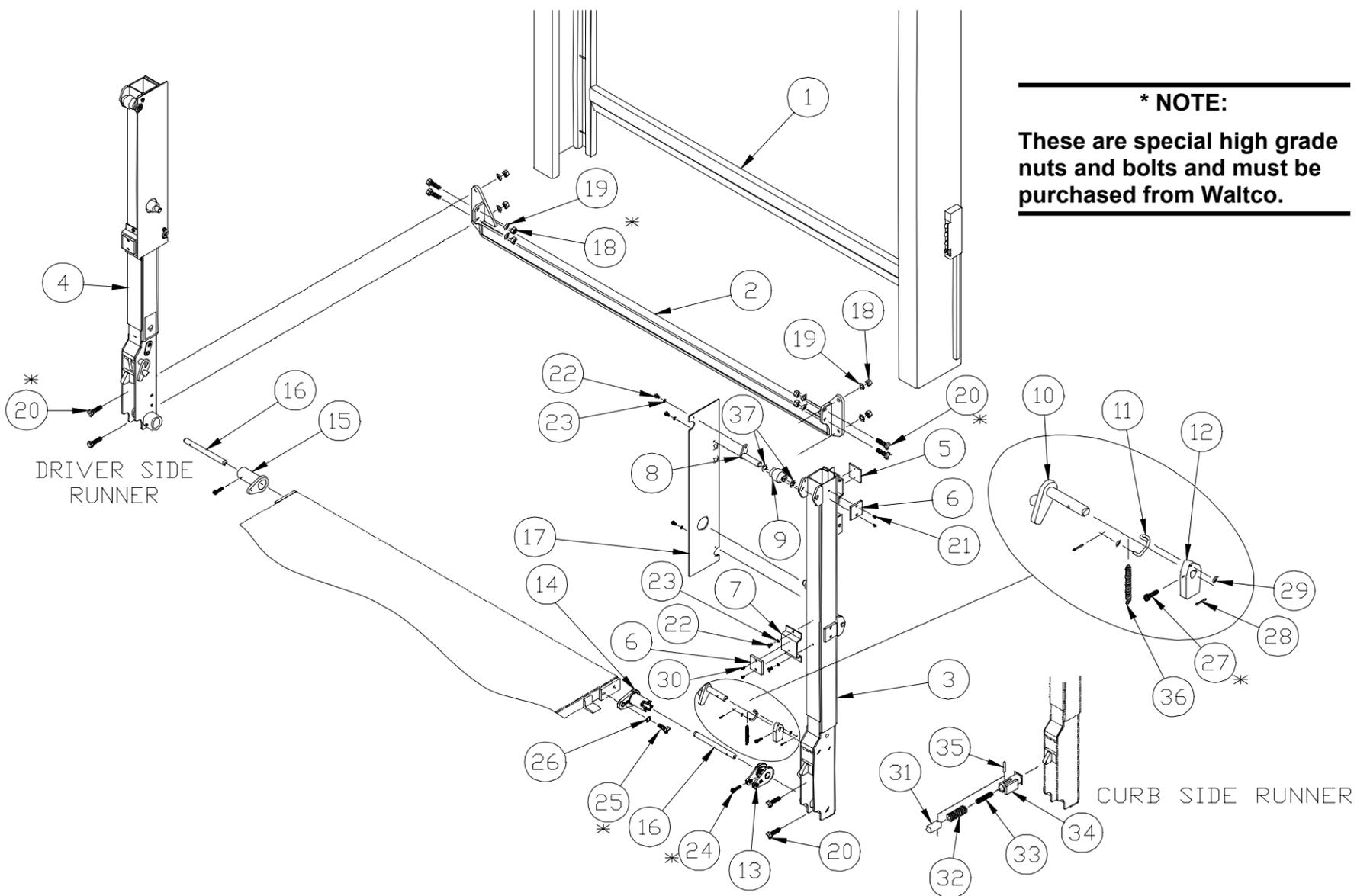
Built from 6/95 thru 1/02

**PM-363A**

Built from 1/02

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

# MAIN FRAME & RUNNER ASSEMBLY



**\* NOTE:**  
**These are special high grade nuts and bolts and must be purchased from Waltco.**

**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**WDL SERIES**

REVISED: 12/1/03  
 E.O. 5221  
 REV. 12

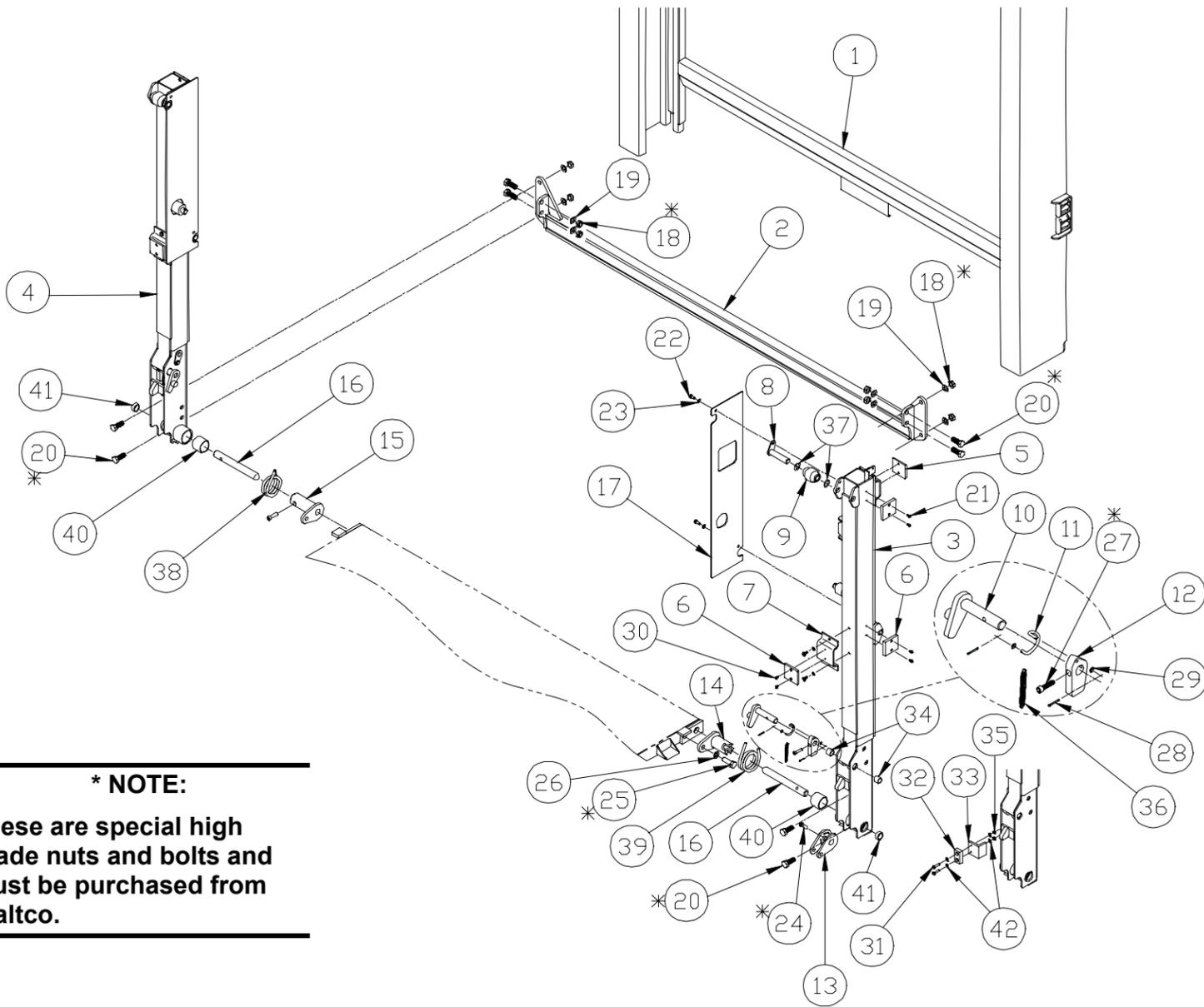
**PM-294**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803200	1	102" Main Frame Assembly
	85803217	1	96" Main Frame Assembly
	85803844	1	102" Main Frame Assy w/Threshold Ext.
	85803843	1	96" Main Frame Assy w/Threshold Ext.
2	85803301	1	102" Equalizer Beam
	85803386	1	96" Equalizer Beam
	85803734	1	102" Equalizer Beam for Threshold Ext.
	85803755	1	96" Equalizer Beam for Threshold Ext.
	3	85803779	1
4	85803780	1	Driver Side Runner Assembly (2 Pc. Break Even Platform)
	85803796	1	Driver Side Runner Assy (1 Pc. Platform Only)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	85803393	4	Roller Pin Assembly
9	85803392	4	Roller Assembly
10	85803245	1	Curb Side Transit Latch Assembly (2 Pc. Platform)
	85803244	1	Driver Side Transit Latch Assembly (2 Pc. Platform)
	85803250	1	Curb Side Transit Latch Assembly (1 Pc. Platform)
	85803251	1	Driver Side Transit Latch Assembly (1 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Driver Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001	1	Curb Side Outer Hub Assembly
14	31451101	1	Curb Side Inner Closer Hub Assembly
15	85803358	1	Driver Side Hub Assembly
16	85803129 <sup>A</sup>	2	Deck Pivot Pin Assembly w/ Grease Fitting

ITEM	PART NUMBER	QTY	DESCRIPTION
17	85803442	1	Curb Side Roller Guard Plate 2 Pc. Platform
	85803453	1	Driver Side Roller Guard Plate 2 Pc. Platform
	85803480	1	Curb Side Roller Guard Plate 1 Pc. Platform
	85803481	1	Driver Side Roller Guard Plate 1 Pc. Platform
*18	75085198	8	3/4"-16 Locknut (Grade 5)
19	75088058	8	3/4" Plain Washer
*20	75086193	8	3/4"-16 X 2" Hex Head Bolt (Grade 5)
21	85803726	8	1/4"-20 X 3/8" Round Head Screw
22	75086055	13	3/8"-16 X 3/4" Hex Head Screw
23	75088081	13	3/8" Lock Washer
*24	85803465 <sup>A</sup>	2	1/2"-13 X 1-3/4" Socket Head Screw (Grade 8)
*25	75086229	2	3/4"-10 X 2-1/4" Hex Head Bolt (Grade 8)
26	75088087	2	3/4" Lock Washer
*27	85803237	2	3/8"-16 X 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053	4	3/32" X 1" Cotter Pin
29	75088051	4	1/4" Plain Washer
30	75086854	8	1/4"-20 X 5/8" Self Tapping Rd. Head Screw
31	85803521	1	Pusher Pin
32	85803522	1	Outer Pusher Spring
33	85803539	1	Inner Pusher Spring (1 Pc. Platforms Only)
34	85803520	1	Pusher Pin Housing
35	75089544	1	3/8" X 2-1/4" Coiled Pin
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze

<sup>A</sup> Included in Deck Pin Replacement Kit 80000913

# MAIN FRAME & RUNNER ASSEMBLY



**\* NOTE:**

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REVISED: 12/1/03  
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REV. 08

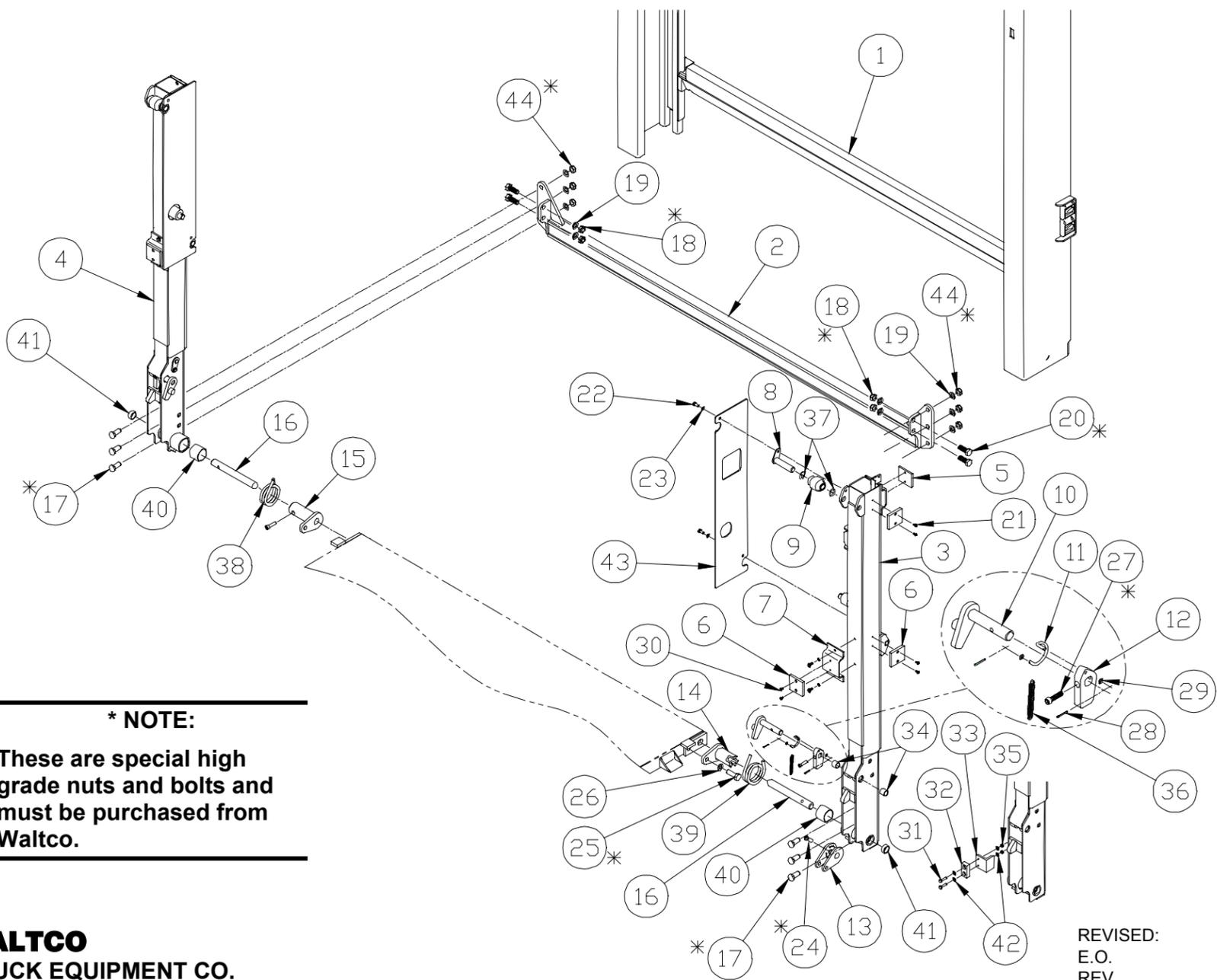
**PM-475**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31320001	1	96" Main Frame Assembly
	32320001	1	102" Main Frame Assembly
	31420001	1	96" Main Frame Assy w/ Threshold Ext.
	32420001	1	102" Main Frame Assy w/ Threshold Ext.
2	85803301	1	102" Equalizer Beam
	85803386	1	96" Equalizer Beam
	85803734	1	102" Equalizer Beam for Threshold Ext.
	85803755	1	96" Equalizer Beam for Threshold Ext.
	31430001	1	Curb Side Runner Assy (2 Pc. Break Even Platform)
3	31330001	1	Curb Side Runner Assy (1 Pc. Platform Only)
	31430051	1	Driver Side Runner Assembly (2 Pc. Break Even Platform)
4	31330051	1	Driver Side Runner Assy (1 Pc. Platform Only)
	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	31439001	4	Roller Pin Assembly
9	31439501	4	Roller Assembly
10	31433501	1	Curb Side Transit Latch Assembly (2 Pc. Platform)
	31433551	1	Driver Side Transit Latch Assembly (2 Pc. Platform)
	31333501	1	Curb Side Transit Latch Assembly (1 Pc. Platform)
	31333551	1	Driver Side Transit Latch Assembly (1 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Driver Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001 <sup>C</sup>	1	Curb Side Outer Hub Assembly
14	31451102 <sup>C</sup>	1	Curb Side Inner Closer Hub Assembly
15	31451301 <sup>C</sup>	1	Driver Side Hub Assembly
16	31411201 <sup>AC</sup>	2	Deck Pivot Pin
17	31437501	1	Curb Side Roller Guard Plate 2 Pc. Platform
	85803453	1	Driver Side Roller Guard Plate 2 Pc. Platform
	31337501	1	Curb Side Roller Guard Plate 1 Pc. Platform
	85803481	1	Driver Side Roller Guard Plate 1 Pc. Platform

ITEM	PART NUMBER	QTY	DESCRIPTION
*18	75085198	8	3/4"-16 Locknut (Grade 5)
19	75088058	8	Flat Washer- 3/4" I.D. x 2" O.D.
*20	75086193	8	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	75086862	8	1/4"-20 x 1/2" Self Tapping Screw
22	75086055 <sup>B</sup>	12	3/8"-16 x 3/4" Hex Head Screw
23	75088081 <sup>B</sup>	12	3/8" Lock Washer
*24	85803465 <sup>ABC</sup>	2	1/2"-13 x 1-3/4" Socket Head Screw (Grade 8)
*25	75086229	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087 <sup>C</sup>	2	3/4" Lock Washer
*27	85803237 <sup>B</sup>	2	3/8"-16 x 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053 <sup>B</sup>	4	3/32" x 1" Cotter Pin
29	75088051 <sup>B</sup>	2	Flat Washer- 1/4" I.D. x 5/8" O.D.
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Head Screw
31	75086007	2	1/4"-20 x 1-1/4" Hex Bolt (Grade 2)
32	31436801	1	Rubber Pad Deck Stop
33	31434601	1	Angle Deck Stop
34	10010167 <sup>B</sup>	4	1-1/8" O.D. x 1" I.D. x 1" lg. Bearing
35	75085161	2	1/4"-20 Nylon Locknut
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	31437151	1	Torsion Spring Platform Opening Street Side
39	31437101	1	Torsion Spring Platform Opening Curb Side
40	10010165 <sup>ABC</sup>	2	2-1/2" O.D. x 2-1/4" I.D. x 2" Lg. Bearing
41	10010166 <sup>ABC</sup>	2	1-1/2" O.D. x 1-1/4" I.D. x 5/8" Lg. Bearing
42	75088060	4	Flat Washer- 1/4" I.D. x 3/4" O.D.

<sup>A</sup> Included in deck Pin Replacement Kit 80000914.  
<sup>B</sup> Included in Bearing Replacement Kit 80000945.  
<sup>C</sup> Included in Hub replacement Kit 80000955.

# MAIN FRAME & RUNNER ASSEMBLY



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TRUCK EQUIPMENT CO.  
WDL RM SERIES

REVISED: 12/1/03  
E.O. 5221  
REV. 02

**PM-475A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31320001	1	96" Main Frame Assembly
	32320001	1	102" Main Frame Assembly
	31420001	1	96" Main Frame Assy w/ Threshold Ext.
	32420001	1	102" Main Frame Assy w/ Threshold Ext.
2	31365001	1	96" Equalizer Beam
	32365001	1	102" Equalizer Beam
	31465001	1	96" Equalizer Beam for Threshold Ext.
	32465001	1	102" Equalizer Beam for Threshold Ext.
3	31430001	1	Curb Side Runner Assy (2 Pc. Break Even Platform)
	31330001	1	Curb Side Runner Assy (1 Pc. Platform Only)
4	31430051	1	Driver Side Runner Assembly (2 Pc. Break Even Platform)
	31330051	1	Driver Side Runner Assy (1 Pc. Platform Only)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	31439001	4	Roller Pin Assembly
9	31439501	4	Roller Assembly
10	31433501	1	Curb Side Transit Latch Assembly (2 Pc. Platform)
	31433551	1	Driver Side Transit Latch Assembly (2 Pc. Platform)
	31333501	1	Curb Side Transit Latch Assembly (1 Pc. Platform)
	31333551	1	Driver Side Transit Latch Assembly (1 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Driver Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001 <sup>C</sup>	1	Curb Side Outer Hub Assembly
14	31451102 <sup>C</sup>	1	Curb Side Inner Closer Hub Assembly
15	31451301 <sup>C</sup>	1	Driver Side Hub Assembly
16	31411201 <sup>AC</sup>	2	Deck Pivot Pin
*17	75087500	6	3/4"-10 x 2" Lg. Carriage Bolt, Grade 5
*18	75085198	4	3/4"-16 Locknut (Grade 5)
19	75088058	10	Flat Washer- 3/4" I.D. x 2" O.D.
*20	75086193	4	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	75086862	8	1/4"-20 x 1/2" Self Tapping Screw
22	75086055 <sup>B</sup>	12	3/8"-16 x 3/4" Hex Head Screw
23	75088081 <sup>B</sup>	12	3/8" Lock Washer

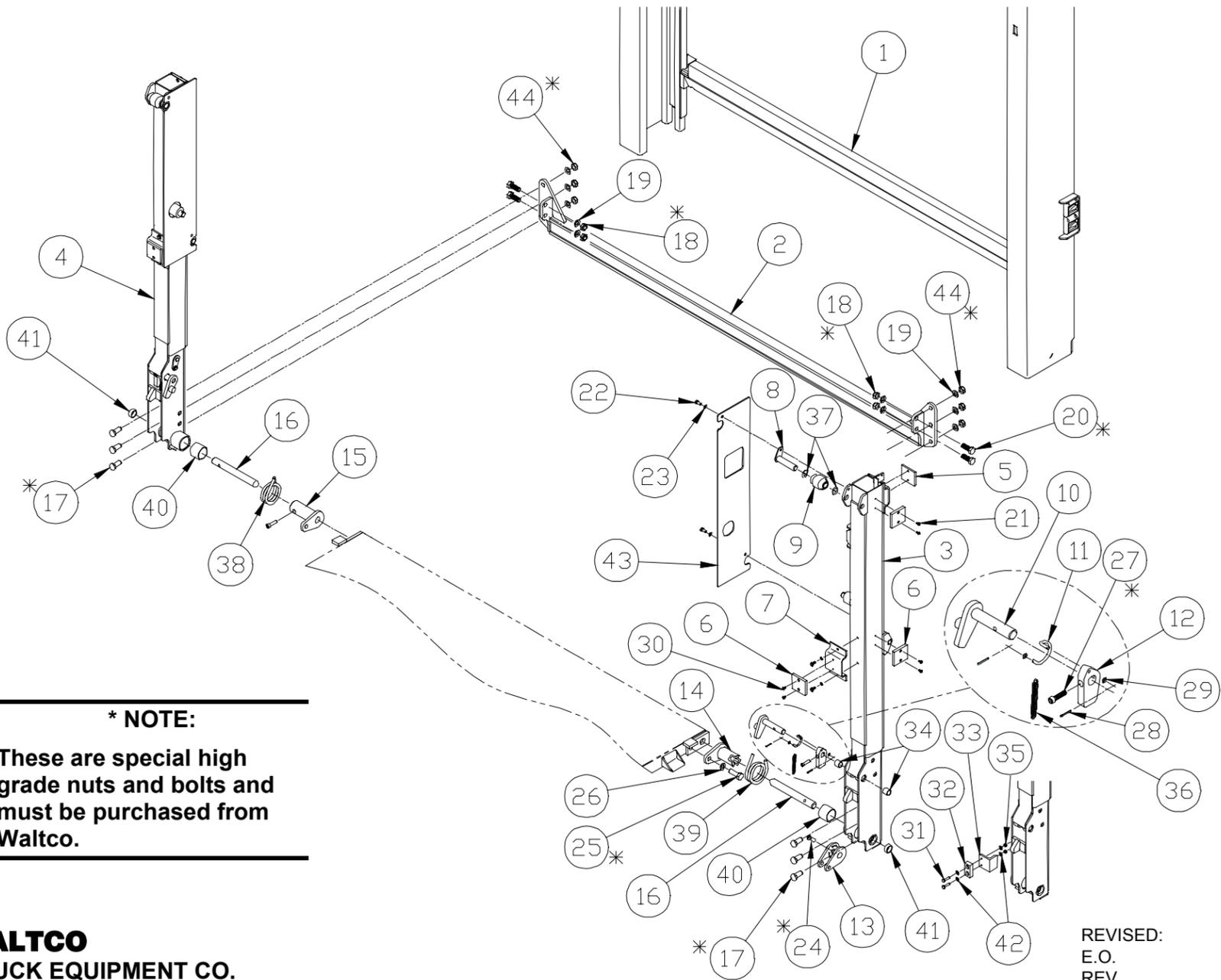
ITEM	PART NUMBER	QTY	DESCRIPTION
*24	85803465 <sup>ABC</sup>	2	1/2"-13 x 1-3/4" Socket Head Screw (Grade 8)
*25	75086229	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087 <sup>C</sup>	2	3/4" Lock Washer
*27	85803237 <sup>B</sup>	2	3/8"-16 x 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053 <sup>B</sup>	4	3/32" x 1" Cotter Pin
29	75088051 <sup>B</sup>	2	Flat Washer- 1/4" I.D. x 5/8" O.D.
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Head Screw
31	75086007	2	1/4"-20 x 1-1/4" Hex Bolt (Grade 2)
32	31436801	1	Rubber Pad Deck Stop
33	31434601	1	Angle Deck Stop
34	10010167 <sup>B</sup>	4	1-1/8" O.D. x 1" I.D. x 1" Lg. Bearing
35	75085161	2	1/4"-20 Nylon Locknut
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	31437151	1	Torsion Spring Platform Opening Street Side
39	31437101	1	Torsion Spring Platform Opening Curb Side
40	10010165 <sup>ABC</sup>	2	2-1/2" O.D. x 2-1/4" I.D. x 2" Lg. Bearing
41	10010166 <sup>ABC</sup>	2	1-1/2" O.D. x 1-1/4" I.D. x 5/8" Lg. Bearing
42	75088060	4	Flat Washer- 1/4" I.D. x 3/4" O.D.
43	31437501	1	Curb Side Roller Guard Plate 2 Pc. Platform
	85803453	1	Driver Side Roller Guard Plate 2 Pc. Platform
	31337501	1	Curb Side Roller Guard Plate 1 Pc. Platform
	85803481	1	Driver Side Roller Guard Plate 1 Pc. Platform
*44	75085199	6	3/4"-10 Locknut (Grade 5)

<sup>A</sup> Included in deck Pin Replacement Kit 80000914.

<sup>B</sup> Included in Bearing Replacement Kit 80000945.

<sup>C</sup> Included in Hub replacement Kit 80000955.

# MAIN FRAME & RUNNER ASSEMBLY



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TRUCK EQUIPMENT CO.  
WDL RM SERIES

REVISED: 12/1/03  
E.O. 5221  
REV. 03

**PM-475B**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31320001	1	96" Main Frame Assembly
	32320001	1	102" Main Frame Assembly
	31420001	1	96" Main Frame Assy w/ Threshold Ext.
	32420001	1	102" Main Frame Assy w/ Threshold Ext.
	2	31365001	1
2	32365001	1	102" Equalizer Beam
	31465001	1	96" Equalizer Beam for Threshold Ext.
	32465001	1	102" Equalizer Beam for Threshold Ext.
	3	31430001	1
31330101		1	Curb Side Runner Assy (1 Pc. Platform Only)
4	31430051	1	Driver Side Runner Assembly (2 Pc. Break Even Platform)
	31330151	1	Driver Side Runner Assy (1 Pc. Platform Only)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	31439001	4	Roller Pin Assembly
9	31439501	4	Roller Assembly
10	31433501	1	Curb Side Transit Latch Assembly (2 Pc. Platform)
	31433551	1	Driver Side Transit Latch Assembly (2 Pc. Platform)
	31333501	1	Curb Side Transit Latch Assembly (1 Pc. Platform)
	31333551	1	Driver Side Transit Latch Assembly (1 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Driver Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001 <sup>C</sup>	1	Curb Side Outer Hub Assembly
14	31451102 <sup>C</sup>	1	Curb Side Inner Closer Hub Assembly
15	31451301 <sup>C</sup>	1	Driver Side Hub Assembly
16	31411201 <sup>AC</sup>	2	Deck Pivot Pin
*17	75087500	6	3/4"-10 x 2" Lg. Carriage Bolt, Grade 5
*18	75085198	4	3/4"-16 Locknut (Grade 5)
19	75088058	10	Flat Washer- 3/4" I.D. x 2" O.D.
*20	75086193	4	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	75086862	8	1/4"-20 x 1/2" Self Tapping Screw
22	75086055 <sup>B</sup>	12	3/8"-16 x 3/4" Hex Head Screw
23	75088081 <sup>B</sup>	12	3/8" Lock Washer

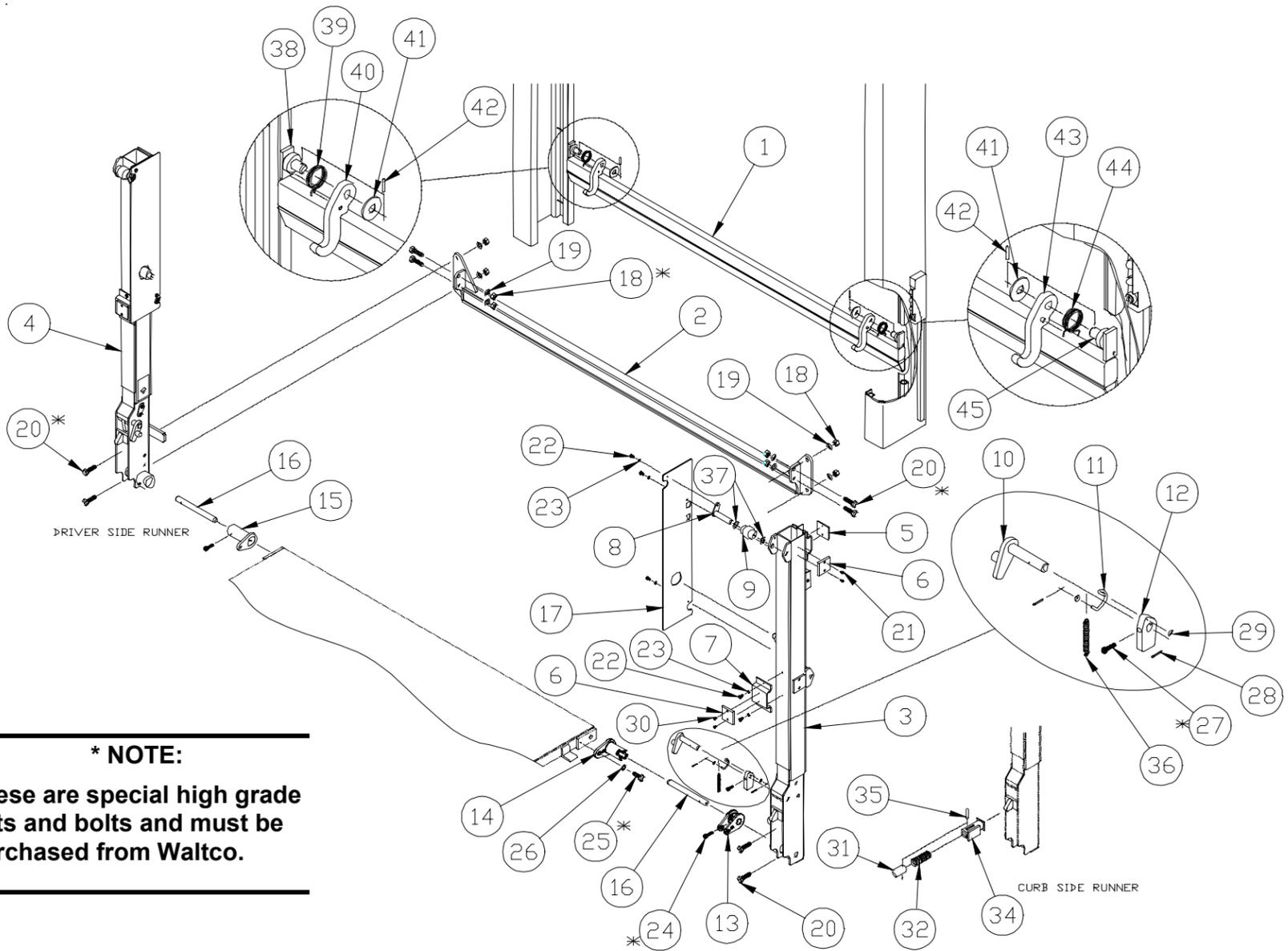
ITEM	PART NUMBER	QTY	DESCRIPTION
*24	85803465 <sup>ABC</sup>	2	1/2"-13 x 1-3/4" Socket Head Screw (Grade 8)
*25	75086229	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087 <sup>C</sup>	2	3/4" Lock Washer
*27	85803237 <sup>B</sup>	2	3/8"-16 x 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053 <sup>B</sup>	4	3/32" x 1" Cotter Pin
29	75088051 <sup>B</sup>	2	Flat Washer- 1/4" I.D. x 5/8" O.D.
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Head Screw
31	75086007	2	1/4"-20 x 1-1/4" Hex Bolt (Grade 2)
32	31436801	1	Rubber Pad Deck Stop
33	31434601	1	Angle Deck Stop
34	10010167 <sup>B</sup>	4	1-1/8" O.D. x 1" I.D. x 1" Lg. Bearing
35	75085161	2	1/4"-20 Nylon Locknut
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	31437151	1	Torsion Spring Platform Opening Street Side
39	31437101	1	Torsion Spring Platform Opening Curb Side
40	10010165 <sup>ABC</sup>	2	2-1/2" O.D. x 2-1/4" I.D. x 2" Lg. Bearing
41	10010166 <sup>ABC</sup>	2	1-1/2" O.D. x 1-1/4" I.D. x 5/8" Lg. Bearing
42	75088060	4	Flat Washer- 1/4" I.D. x 3/4" O.D.
43	31437501	1	Curb Side Roller Guard Plate 2 Pc. Platform
	85803453	1	Driver Side Roller Guard Plate 2 Pc. Platform
	31337501	1	Curb Side Roller Guard Plate 1 Pc. Platform
	85803481	1	Driver Side Roller Guard Plate 1 Pc. Platform
*44	75085199	6	3/4"-10 Locknut (Grade 5)

<sup>A</sup> Included in deck Pin Replacement Kit 80000914.

<sup>B</sup> Included in Bearing Replacement Kit 80000945.

<sup>C</sup> Included in Hub replacement Kit 80000955.

# MAIN FRAME & RUNNER ASSEMBLY w/ BOTTOM STOPS



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REVISED: 12/1/03  
E.O. 5221  
REV. 07

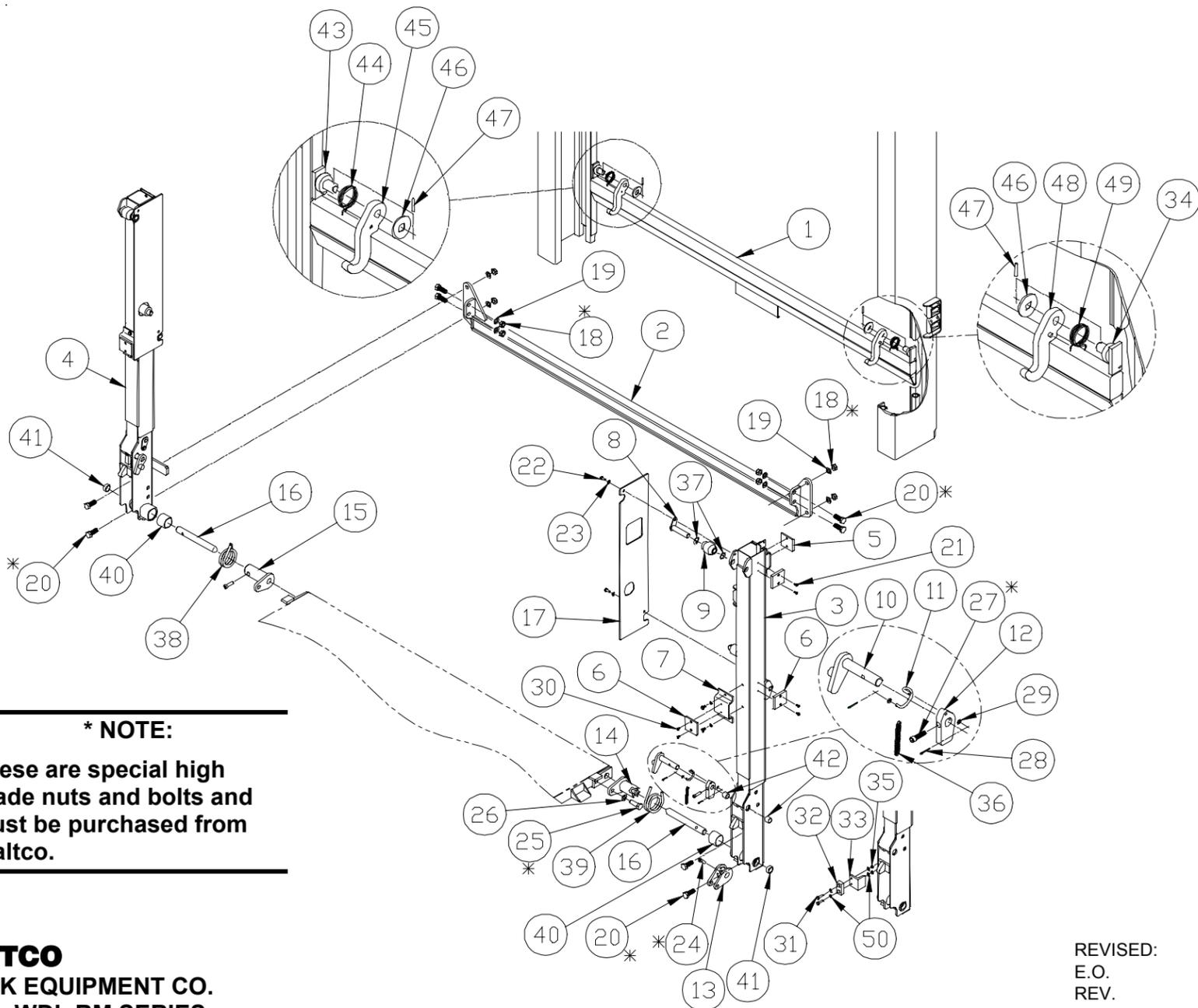
**PM-385**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803258	1	102" Main Frame Assembly w/Bottom Stops
	85803257	1	96" Main Frame Assembly w/Bottom Stops
	85803850	1	102" Main Frame Assy w/Threshold Ext. & Bottom Stops
	85803849	1	96" Main Frame Assy w/Threshold Ext. & Bottom Stops
2	85803301	1	102" Equalizer Beam
	85803386	1	96" Equalizer Beam
	85803734	1	102" Equalizer Beam for Threshold Ext.
	85803755	1	96" Equalizer Beam for Threshold Ext.
3	85803367	1	Curb Side Runner Assy w/Bottom Stops (2 Pc. Break Even Platform)
4	85803368	1	Street Side Runner Assembly w/Bottom Stops (2 Pc. Break Even Platform)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	85803393	4	Roller Pin Assembly
9	85803392	4	Roller Assembly
10	85803245	1	Curb Side Transit Latch Assembly(2 Pc. Platform)
	85803244	1	Street Side Transit Latch Assembly (2 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Street Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001	1	Curb Side Outer Hub Assembly
14	31451101	1	Curb Side Inner Closer Hub Assembly
15	85803358	1	Street Side Hub Assembly
16	85803129 <sup>A</sup>	2	Deck Pivot Pin Assembly w/ Grease Fitting
17	85803442	1	Curb Side Roller Guard Plate 2 Pc. Deck
	85803453	1	Street Side Roller Guard Plate 2 Pc. Deck
*18	75085198	8	3/4"-16 Locknut (Grade 5)
19	75088058	8	3/4" Plain Washer
*20	75086193	8	3/4"-16 X 2" Hex Head Bolt (Grade 5)
21	85803726	8	1/4"-20 X 3/8" Round Head Screw
22	75086055	13	3/8"-16 X 3/4" Hex Head Screw
23	75088081	13	3/8" Lock Washer

ITEM	PART NUMBER	QTY	DESCRIPTION
*24	85803465 <sup>A</sup>	2	1/2"-13 X 1-3/4" Socket Head Screw (Grade 8)
*25	75086229	2	3/4"-10 X 2-1/4" Hex Head Bolt (Grade 8)
26	75088087	2	3/4" Lock Washer
*27	85803237	2	3/8"-16 X 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053	4	3/32" X 1" Cotter Pin
29	75088051	4	1/4" Plain Washer
30	75086854	8	1/4"-20 X 5/8" Self Tapping Rd. Head Screw
31	85803521	1	Pusher Pin
32	85803522	1	Outer Pusher Spring
34	85803520	1	Pusher Pin Housing
35	75089544	1	3/8" X 2-1/4" Coiled Pin
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	85803531	1	Street Side Bottom Stop Hook Mount Assembly
39	75089758	1	Street Side Bottom Stop Spring
40	85803526	1	Street Side Bottom Stop Hook Assembly
41	75088061	2	1" S.A.E. Flat Washer
42	75089557	2	1/4" x 1-1/2" Coiled Pin
43	85803525	1	Curb Side Bottom Stop Hook Assembly
44	75089757	1	Curb Side Bottom Stop Spring
45	85803530	1	Curb Side Bottom Stop Hook Mount Assembly

<sup>A</sup> Included in Deck Pin Replacement Kit 80000913.

# MAIN FRAME & RUNNER ASSEMBLY w/ BOTTOM STOPS



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WDL RM SERIES

REVISED: 12/1/03  
E.O. 5221  
REV. 09

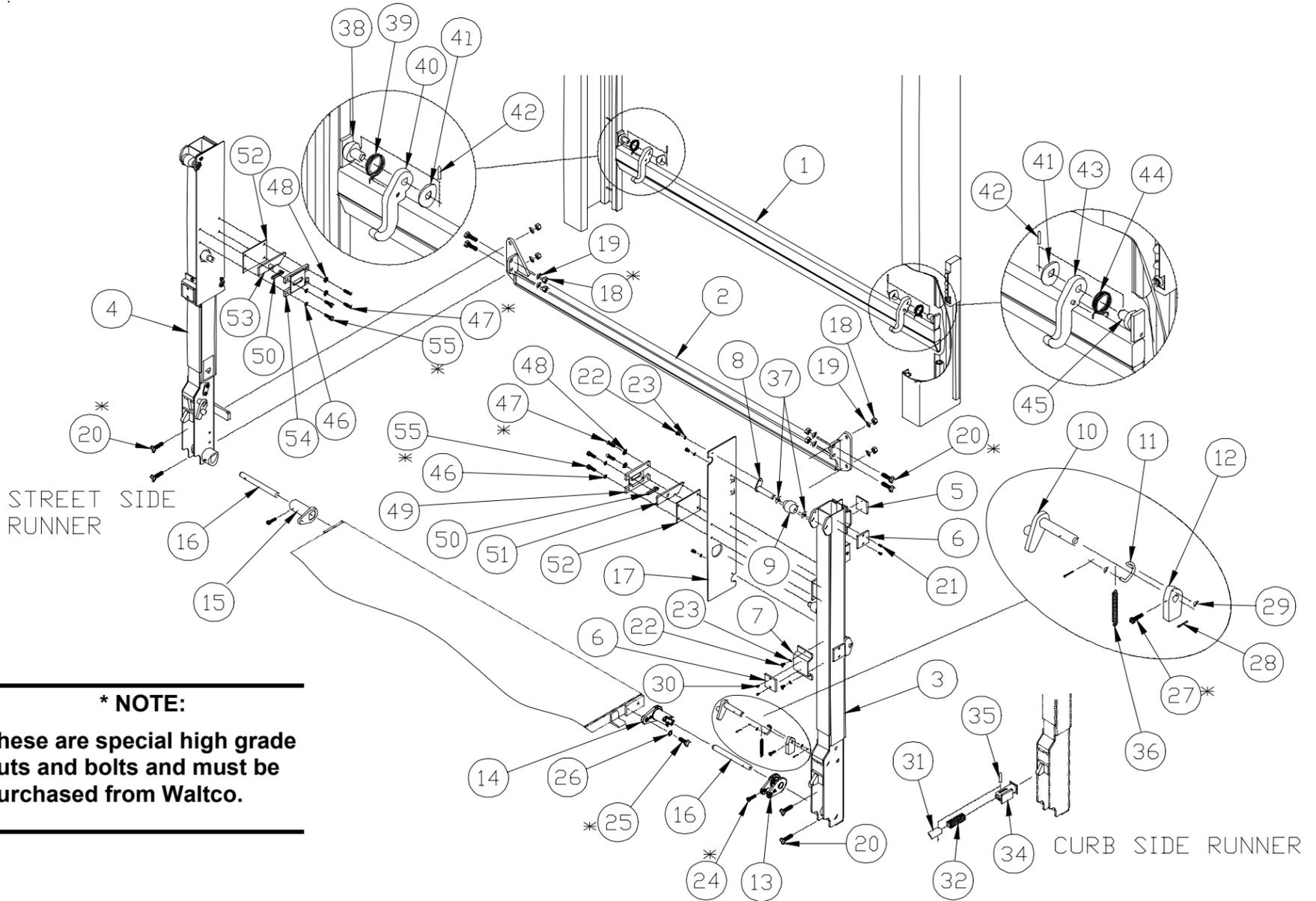
**PM-476**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31520001	1	96" Main Frame Assembly w/Bottom Stops
	32520001	1	102" Main Frame Assembly w/Bottom Stops
	31620001	1	96" Main Frame Assy w/ Threshold Ext. & Bottom Stops
	32620001	1	102" Main Frame Assy w/ Threshold Ext. & Bottom Stops
2	85803301	1	102" Equalizer Beam
	85803386	1	96" Equalizer Beam
	85803734	1	102" Equalizer Beam for Threshold Ext.
	85803755	1	96" Equalizer Beam for Threshold Ext.
3	31530001	1	Curb Side Runner Assy w/Bottom Stops (2 Pc. Break Even Platform)
4	31530051	1	Street Side Runner Assembly w/Bottom Stops (2 Pc. Break Even Platform)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	31439001	4	Roller Pin Assembly
9	31439501	4	Roller Assembly
10	31433501	1	Curb Side Transit Latch Assembly(2 Pc. Platform)
	31433551	1	Street Side Transit Latch Assembly (2 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Street Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001 <sup>C</sup>	1	Curb Side Outer Hub Assembly
14	31451102 <sup>C</sup>	1	Curb Side Inner Closer Hub Assembly
15	31451301 <sup>C</sup>	1	Street Side Hub Assembly
16	31411201 <sup>AC</sup>	2	Deck Pivot Pin
17	31437501	1	Curb Side Roller Guard Plate 2 Pc. Platform
	85803453	1	Street Side Roller Guard Plate 2 Pc. Platform
*18	75085198	8	3/4"-16 Locknut (Grade 5)
19	75088058	8	Flat Washer- 3/4" I.D. x 2" O.D.
*20	75086193	8	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	75086862	8	1/4"-20 x 1/2" Self Tapping Screw
22	75086055 <sup>B</sup>	12	3/8"-16 x 3/4" Hex Head Screw
23	75088081 <sup>B</sup>	12	3/8" Lock Washer
*24	85803465 <sup>AB</sup>	2	1/2"-13 x 1-3/4" Socket Head Screw (Grade 8)

ITEM	PART NUMBER	QTY	DESCRIPTION
*25	75086229	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087 <sup>C</sup>	2	3/4" Lock Washer
*27	85803237 <sup>B</sup>	2	3/8"-16 x 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053 <sup>B</sup>	4	3/32" x 1" Cotter Pin
29	75088051 <sup>B</sup>	2	1/4" I.D. x 5/8" O.D. S.A.E. Flat Washer
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Head Screw
31	75086007	2	1/4"-20 x 1-1/4" Hex Bolt (Grade 2)
32	31436801	1	Rubber Pad Deck Stop
33	31434601	1	Angle Deck Stop
34	85803530	1	Curb Side Bottom Stop Hook Mount Assembly
35	75085161	2	1/4"-20 Nylon Locknut
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	31437151	1	Torsion Spring Platform Opening Street Side
39	31437101	1	Torsion Spring Platform Opening Curb Side
40	10010165 <sup>ABC</sup>	2	2-1/2" O.D. x 2-1/4" I.D. x 2" Lg. Bearing
41	10010166 <sup>ABC</sup>	2	1-1/2" O.D. x 1-1/4" I.D. x 5/8" Lg. Bearing
42	10010167 <sup>B</sup>	4	1-1/8" O.D. x 1" I.D. x 1" Lg. Bearing
43	85803531	1	Street Side Bottom Stop Hook Mount Assembly
44	75089758	1	Street Side Bottom Stop Spring
45	85803525	1	Street Side Bottom Stop Hook Assembly
46	75088061	2	Flat Washer- 1" I.D. x 2" O.D.
47	75089557	2	1/4" x 1-1/2" Coiled Pin
48	85803526	1	Curb Side Bottom Stop Hook Assembly
49	75089757	1	Curb Side Bottom Stop Spring
50	75088060	4	Flat Washer- 1/4" I.D. x 3/4" O.D.

<sup>A</sup> Included in Deck Pin Replacement Kit 80000914.  
<sup>B</sup> Included in Bearing Replacement Kit 80000945.  
<sup>C</sup> Included in Hub Replacement Kit 80000955.

# MAIN FRAME & RUNNER ASSEMBLY w/ STORE BELOW BED OPTION



**\* NOTE:**  
 These are special high grade nuts and bolts and must be purchased from Waltco.

**WALTCO**  
 TRUCK EQUIPMENT CO.  
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REVISED: 12/1/03  
 E.O. 5221  
 REV. 07

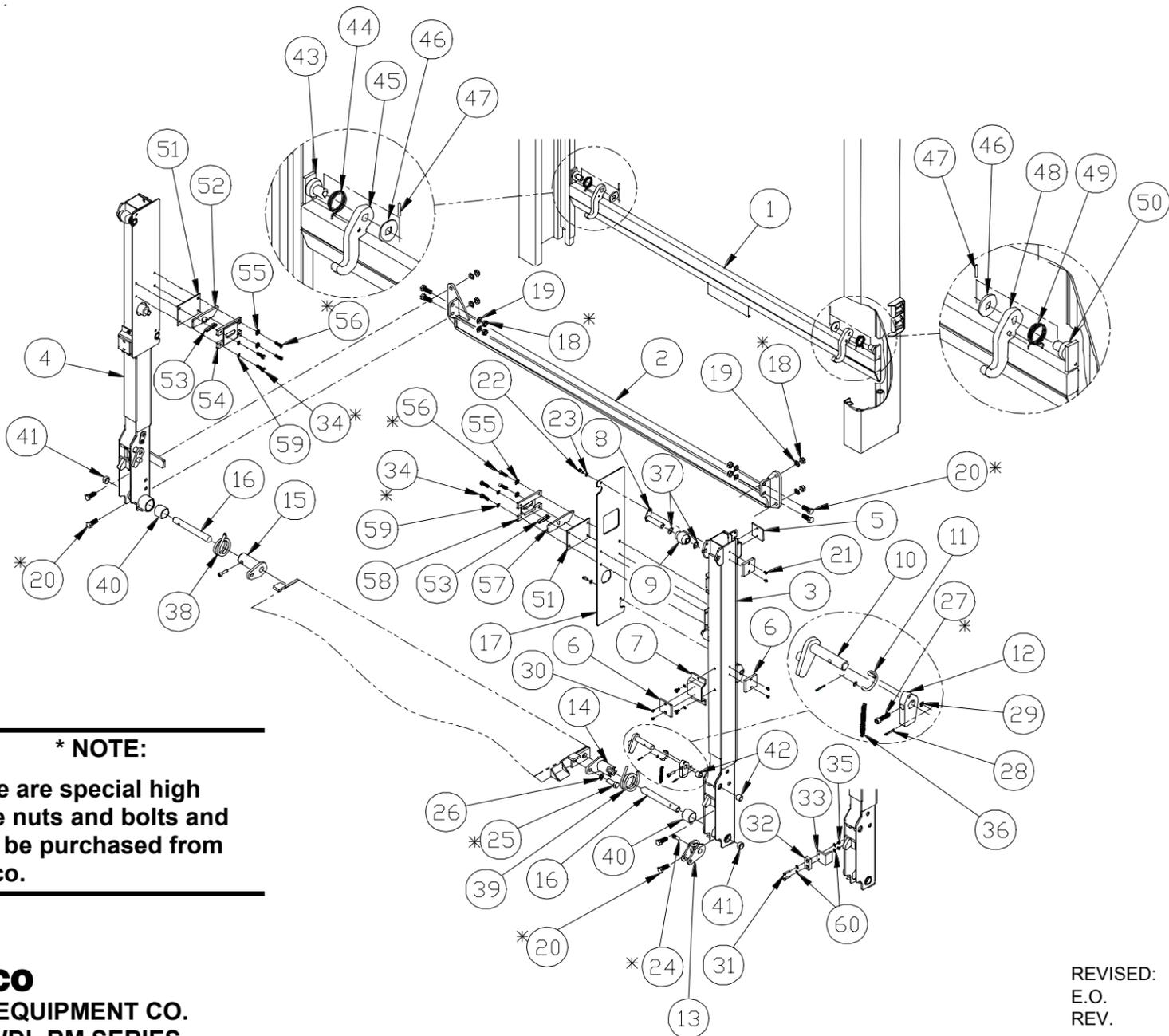
**PM-386**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803258	1	102" Main Frame Assy w/ Bottom Stops
	85803257	1	96" Main Frame Assy w/Bottom Stops
	85803850	1	102" Main Frame Assy w/Threshold Ext. & Bot. Stops
	85803849	1	96" Main Frame Assy w/Threshold Ext. & Bot. Stops
2	85803301	1	102" Equalizer Beam
	85803386	1	96" Equalizer Beam
	85803734	1	102" Equalizer Beam for Threshold Ext.
	85803755	1	96" Equalizer Beam for Threshold Ext.
3	85803781	1	Curb Side Runner Assy w/Bottom Stops & Store Below Option (60" B.E. Decks Only)
	85803314	1	C/S Runner Assy w/Bottom Stops & Store Below (60"+15" & 72" B.E. Decks Only)
4	85803782	1	Street Side Runner Assy w/Bottom Stops & Store Below (60" B.E. Decks Only)
	85803315	1	S/S Runner Assy w/Bottom Stops & Store Below (60"+15" & 72" B.E. Decks Only)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	85803393	4	Roller Pin Assembly
9	85803392	4	Roller Assembly
10	85803245	1	C/S Transit Latch Assy (2 Pc. Platform)
	85803244	1	S/S Transit Latch Assy (2 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Street Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001	1	Curb Side Outer Hub Assembly
14	31451101	1	Curb Side Inner Closer Hub Assembly
15	85803358	1	Street Side Hub Assembly
16	85803129 <sup>A</sup>	2	Deck Pivot Pin Assy w/ Grease Fitting
17	85803442	1	C/S Roller Guard Plate 2 Pc. Platform
	85803453	1	S/S Roller Guard Plate 2 Pc. Platform
*18	75085198	8	3/4"-16 Locknut (Grade 5)
19	75088058	8	3/4" Plain Washer
*20	75086193	8	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	85803726	8	1/4"-20 x 3/8" Round Head Screw
22	75086055	13	3/8"-16 x 3/4" Hex Head Screw
23	75088081	13	3/8" Lock Washer

ITEM	PART NUMBER	QTY	DESCRIPTION
*24	85803465 <sup>A</sup>	2	1/2"-13 x 1-3/4" Socket Hd Screw (Grade 8)
*25	85803491	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087	2	3/4" Lock Washer
*27	85803237	2	3/8"-16 x 1-1/2" Socket Hd Screw (Grade 5)
28	75084053	4	3/32" x 1" Cotter Pin
29	75088051	4	1/4" Plain Washer
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Hd. Screw
31	85803521	1	Pusher Pin
32	85803522	1	Outer Pusher Spring
34	85803520	1	Pusher Pin Housing
35	75089544	1	3/8" X 2-1/4" Coiled Pin
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	85803531	1	S/S Bottom Stop Hook Mount Assy
39	75089758	1	Street Side Bottom Stop Spring
40	85803526	1	Street Side Bottom Stop Hook Assembly
41	75088061	2	1" S.A.E. Flat Washer
42	75089557	2	1/4" x 1-1/2" Coiled Pin
43	85803525	1	Curb Side Bottom Stop Hook Assembly
44	75089757	1	Curb Side Bottom Stop Spring
45	85803530	1	C/S Bottom Stop Hook Mount Assembly
46	75088083	4	1/2" Lock Washer
47	85803581	4	1/2"-20 x 1-1/2" Flat Head Cap Screw
48	85803585	4	1/2" Lock Washer Counter Sunk External
49	85803570	1	C/S Store Below Lock Housing Assy
50	85803579	2	Spring Store Below, Detent
51	85803575	1	Curb Side Store Below Lock Slide Assy
52	85803567	2	Spacer Plate
53	85803576	1	Street Side Store Below Lock Slide Assy
54	85803571	1	S/S Store Below Lock Housing Assy
*55	85803594	4	1/2"-20 x 1-1/2" Hex head Bolt (Grade 5)

<sup>A</sup> Included in Deck Pin Replacement Kit 80000913.

# MAIN FRAME & RUNNER ASSEMBLY w/ STORE BELOW BED OPTION



**\* NOTE:**

These are special high grade nuts and bolts and must be purchased from Waltco.

**WALTCO**  
TRUCK EQUIPMENT CO.  
WDL RM SERIES

REVISED: 12/1/03  
E.O. 5221  
REV. 08

**PM-477**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31520001	1	96" Main Frame Assembly w/Bottom Stops
	32520001	1	102" Main Frame Assembly w/Bottom Stops
	31620001	1	96" Main Frame Assy w/Threshold Ext. & Bot. Stops
	32620001	1	102" Main Frame Assy w/Threshold Ext. & Bot. Stops
2	85803301	1	102" Equalizer Beam
	85803386	1	96" Equalizer Beam
	85803734	1	102" Equalizer Beam for Threshold Ext.
	85803755	1	96" Equalizer Beam for Threshold Ext.
3	32430001	1	Curb Side Runner Assy w/Bottom Stops & Store Below Option (60" B.E. Decks Only)
	32530001	1	C/S Runner Assy w/Bottom Stops & Store Below Option (60"+15" & 72" B.E. Decks Only)
4	32430051	1	Street Side Runner Assy w/Bottom Stops & Store Below Option (60" B.E. Decks Only)
	32530051	1	S/S Runner Assy w/Bottom Stops & Store Below Option (60"+15" & 72" B.E. Decks Only)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	31439001	4	Roller Pin Assembly
9	31439501	4	Roller Assembly
10	31433501	1	Curb Side Transit Latch Assembly (2 Pc. Platform)
	31433551	1	Street Side Transit Latch Assembly (2 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Street Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001 <sup>C</sup>	1	Curb Side Outer Hub Assembly
14	31451102 <sup>C</sup>	1	Curb Side Inner Closer Hub Assembly
15	31451301 <sup>C</sup>	1	Street Side Hub Assembly
16	31411201 <sup>AC</sup>	2	Deck Pivot Pin
17	31437501	1	Curb Side Roller Guard Plate (60" B.E. Decks Only)
	32537501	1	Curb Side Roller Guard Plate (60" + 15" & 72" B.E. Decks Only)
	85803453	1	Street Side Roller Guard Plate (60" B.E. Decks Only)
	85803788	1	Street Side Roller Guard Plate (60" + 15" & 72" B.E. Decks Only)
*18	75085198	8	3/4"-16 Locknut (Grade 5)
19	75088058	8	Flat Washer- 3/4" I.D. x 2" O.D.
*20	75086193	8	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	75086862	8	1/4"-20 x 1/2" Self Tapping Screw
22	75086055 <sup>B</sup>	12	3/8"-16 x 3/4" Hex Head Screw
23	75088081 <sup>B</sup>	12	3/8" Lock Washer
*24	85803465 <sup>ABC</sup>	2	1/2"-13 x 1-3/4" Socket Head Screw (Grade 8)

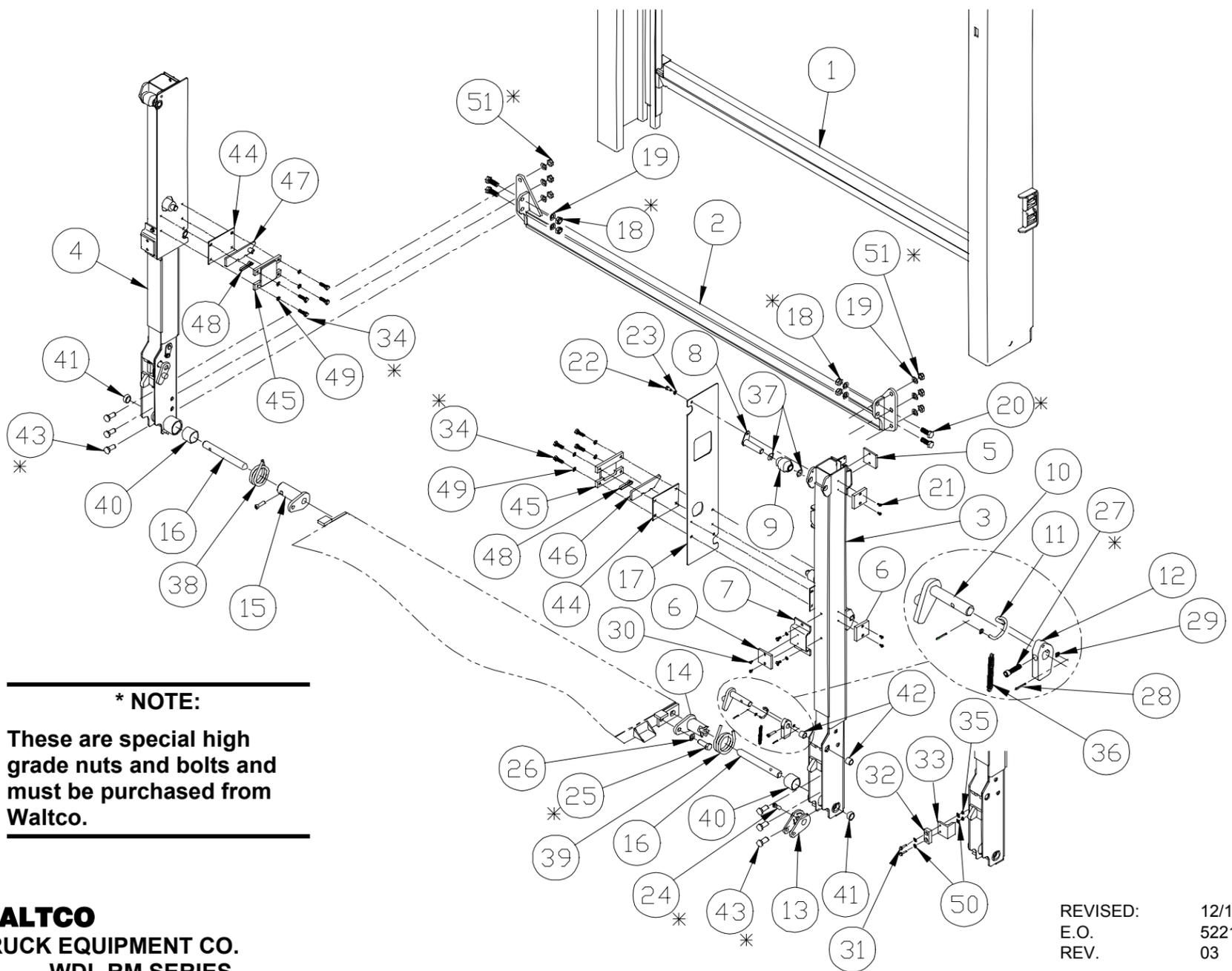
ITEM	PART NUMBER	QTY	DESCRIPTION
*25	85803491	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087 <sup>C</sup>	2	3/4" Lock Washer
*27	85803237 <sup>B</sup>	2	3/8"-16 x 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053 <sup>B</sup>	4	3/32" x 1" Cotter Pin
29	75088051 <sup>B</sup>	2	Flat Washer- 1/4" I.D. x 5/8" O.D.
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Head Screw
31	75086007	2	1/4"-20 x 1-1/4" Lg. Hex Bolt (Grade 2)
32	31436801	1	Rubber Pad Deck Stop
33	31434601	1	Angle Deck Stop
*34	85803594	4	1/2"-20 x 1-1/2" Hex head Bolt (Grade 5)
35	75085161	2	1/4"-20 Nylon Locknut
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	31437151	1	Torsion Spring Platform Opening DS
39	31437101	1	Torsion Spring Platform Opening CS
40	10010165 <sup>ABC</sup>	2	2-1/2" O.D. x 2-1/4" I.D. x 2" Lg. Bearing
41	10010166 <sup>ABC</sup>	2	1-1/2" O.D. x 1-1/4" I.D. x 5/8" Lg. Bearing
42	10010167 <sup>B</sup>	4	1-1/8" O.D. x 1" I.D. x 1" Lg. Bearing
43	85803531	1	Street Side Bottom Stop Hook Mount Assembly
44	75089758	1	Street Side Bottom Stop Spring
45	85803526	1	Street Side Bottom Stop Hook Assembly
46	75088061	2	Flat Washer- 1" I.D. x 2-1/2" O.D.
47	75089557	2	1/4" x 1-1/2" Coiled Pin
48	85803525	1	Curb Side Bottom Stop Hook Assembly
49	75089757	1	Curb Side Bottom Stop Spring
50	85803530	1	Curb Side Bottom Stop Hook Mount Assembly
51	85803567	2	Spacer Plate
52	85803576	2	Street Side Store Below Lock Slide Assy
53	85803579	2	Spring Store Below Detent
54	85803571	1	Street Side Store Below Lock Housing Assy
55	75088083	4	1/2" Lock Washer
*56	85803581	4	1/2"-20 x 1-1/2" Flat Head Cap Screw
57	85803575	1	Curb Side Store Below Lock Slide Assy
58	85803570	1	Curb Side Store Below Lock Housing Assy
59	85803585	4	1/2" Lock Washer Counter Sunk External
60	75088060	4	Flat Washer- 1/4" I.D. x 3/4" O.D.

<sup>A</sup> Included in Deck Pin Replacement Kit 80000914.

<sup>B</sup> Included in Bearing Replacement Kit 80000945.

<sup>C</sup> Included in Hub Replacement Kit 80000955.

# MAIN FRAME & RUNNER ASSEMBLY w/ STORE BELOW BED OPTION



**WALTCO**  
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WDL RM SERIES

REVISED: 12/1/03  
E.O. 5221  
REV. 03

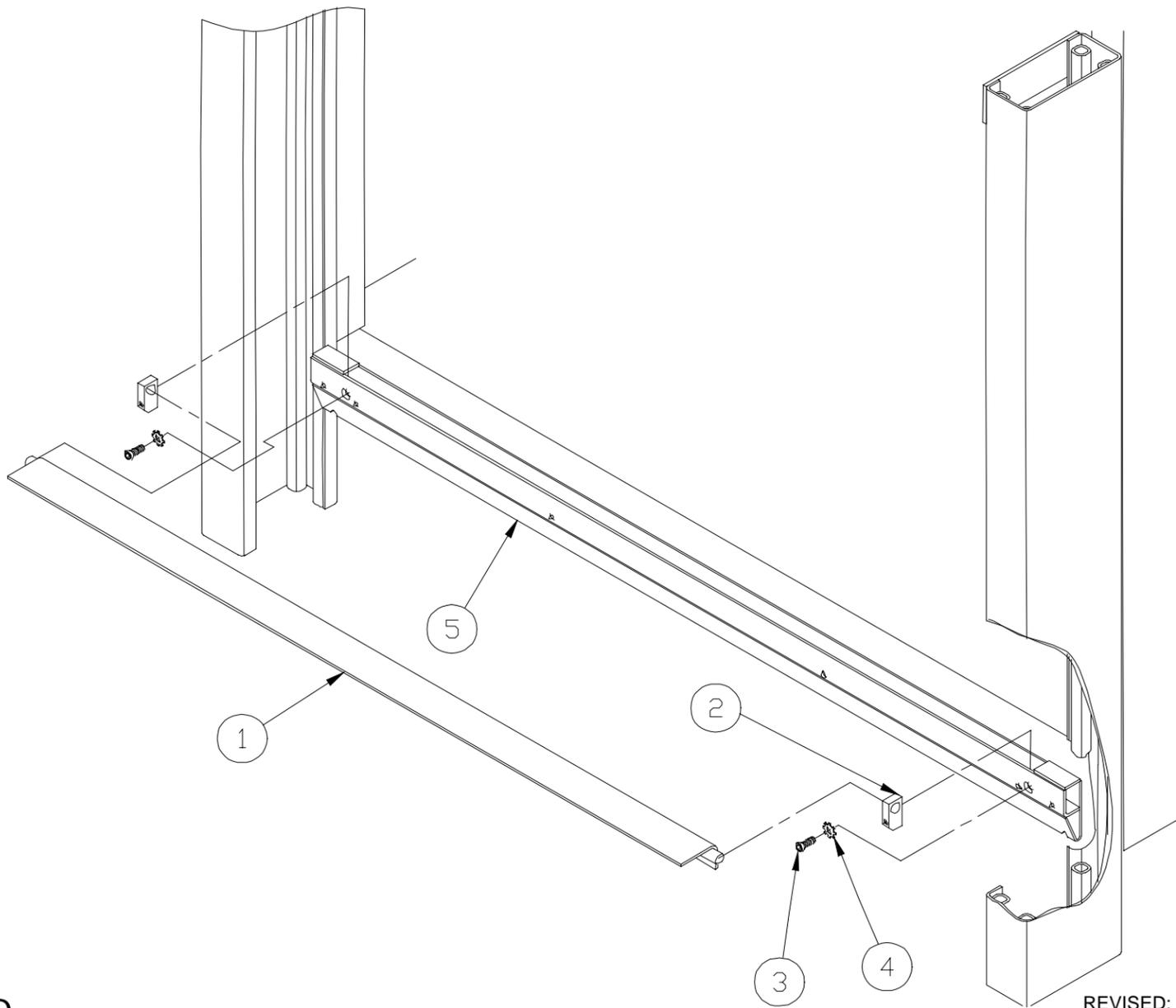
**PM-477A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31320001	1	96" Main Frame Assembly
	32320001	1	102" Main Frame Assembly
	31420001	1	96" Main Frame Assy w/Threshold Extension
	32420001	1	102" Main Frame Assy w/Threshold Extension
2	31365001	1	96" Equalizer Beam
	32365001	1	102" Equalizer Beam
	31465001	1	96" Equalizer Beam for Threshold Ext.
	32465001	1	102" Equalizer Beam for Threshold Ext.
3	32430001	1	Curb Side Runner Assy w/Bottom Stops & Store Below Option
4	32430051	1	Street Side Runner Assy w/Bottom Stops & Store Below Option
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	31439001	4	Roller Pin Assembly
9	31439501	4	Roller Assembly (includes Bearings)
10	31433501	1	Curb Side Transit Latch Assembly (2 Pc. Platform)
	31433551	1	Street Side Transit Latch Assembly (2 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Street Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001 <sup>C</sup>	1	Curb Side Outer Hub Assembly
14	31451102 <sup>C</sup>	1	Curb Side Inner Closer Hub Assembly
15	31451301 <sup>C</sup>	1	Street Side Hub Assembly
16	31411201 <sup>AC</sup>	2	Deck Pivot Pin
17	32437502	1	Curb Side Roller Guard Plate
	32437552	1	Street Side Roller Guard Plate
*18	75085198	4	3/4"-16 Locknut (Grade 5)
19	75088058	10	Flat Washer- 3/4" I.D. x 2" O.D.
*20	75086193	4	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	75086862	8	1/4"-20 x 1/2" Self Tapping Screw
22	75086055 <sup>B</sup>	12	3/8"-16 x 3/4" Hex Head Screw
23	75088081 <sup>B</sup>	12	3/8" Lock Washer
*24	85803465 <sup>ABC</sup>	2	1/2"-13 x 1-3/4" Socket Head Screw (Grade 8)
*25	85803491	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087 <sup>C</sup>	2	3/4" Lock Washer
*27	85803237 <sup>B</sup>	2	3/8"-16 x 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053 <sup>B</sup>	4	3/32" x 1" Cotter Pin

ITEM	PART NUMBER	QTY	DESCRIPTION
29	75088051 <sup>B</sup>	2	Flat Washer- 1/4" I.D. x 5/8" O.D.
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Head Screw
31	75086007	2	1/4"-20 x 1-1/4" Lg. Hex Bolt (Grade 2)
32	31436801	1	Rubber Pad Deck Stop
33	31434601	1	Angle Deck Stop
*34	85803594	8	1/2"-20 x 1-1/2" Hex head Bolt (Grade 5)
35	75085161	2	1/4"-20 Nylon Locknut
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	31437151	1	Torsion Spring Platform Opening DS
39	31437101	1	Torsion Spring Platform Opening CS
40	10010165 <sup>ABC</sup>	2	2-1/2" O.D. x 2-1/4" I.D. x 2" Lg. Bearing
41	10010166 <sup>ABC</sup>	2	1-1/2" O.D. x 1-1/4" I.D. x 5/8" Lg. Bearing
42	10010167 <sup>B</sup>	4	1-1/8" O.D. x 1" I.D. x 1" Lg. Bearing
*43	75087500	6	3/4"-10 x 2" Lg. Carriage Bolt, Grade 5
44	85803567	2	Spacer Plate
45	31457001	1	Store Below Lock Housing Assy
46	31457501	1	Curb Side Store Below Lock Slide Assy
47	31457551	2	Street Side Store Below Lock Slide Assy
48	85803579	2	Spring Store Below Detent
49	75088083	8	1/2" Lock Washer
50	75088060	4	Flat Washer- 1/4" I.D. x 3/4" O.D.
*51	75085199	6	3/4"-10 Locknut (Grade 5)

<sup>A</sup> Included in Deck Pin Replacement Kit 80000914.  
<sup>B</sup> Included in Bearing Replacement Kit 80000945.  
<sup>C</sup> Included in Hub Replacement Kit 80000955.

**THRESHOLD EXTENSION**



**WALTCO  
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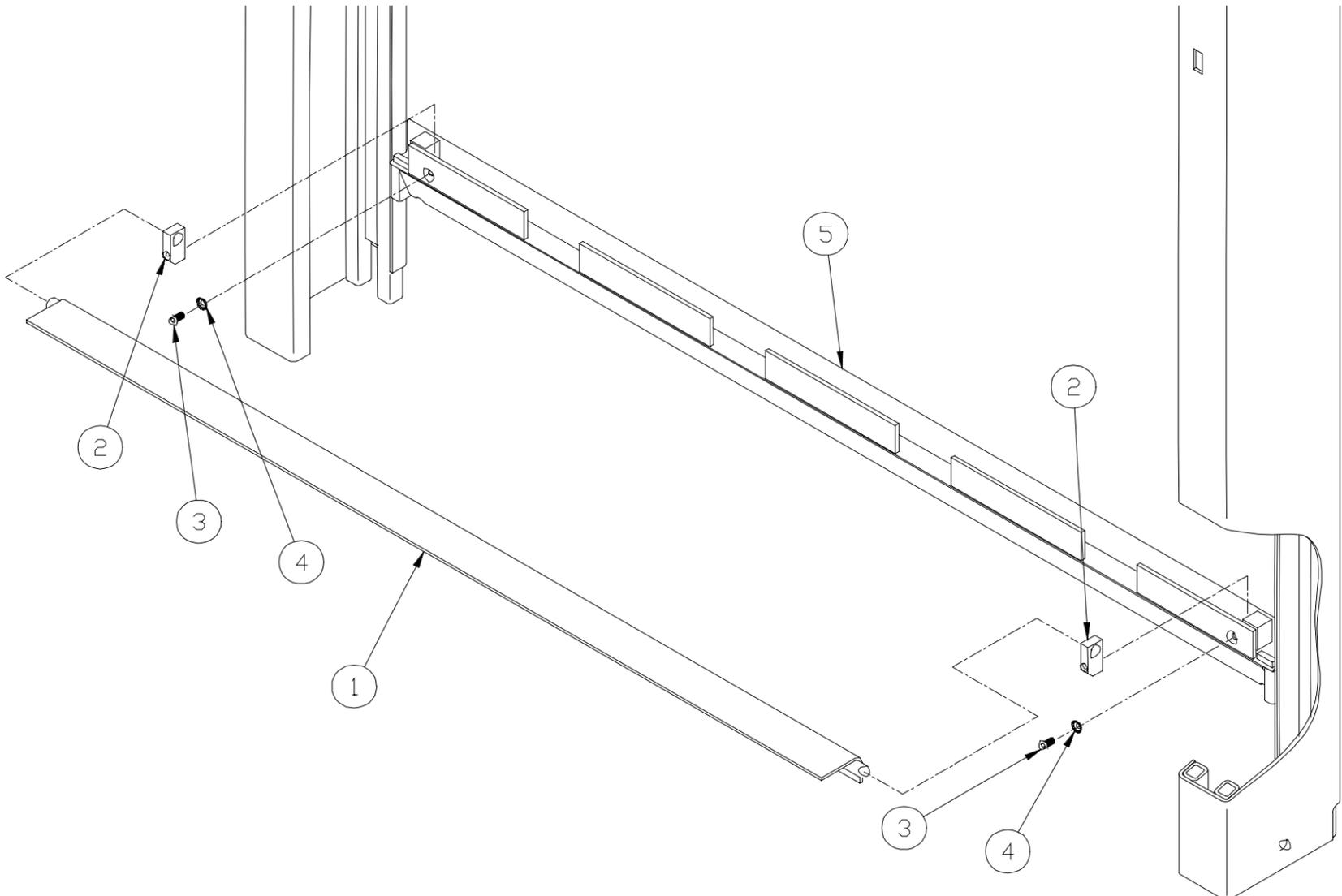
REVISED:  
E.O.  
REV.

12-18-98  
3760  
03

**PM-363**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803830	1	Angle Assembly (96" Wide Liftgate)
	85803831	1	Angle Assembly (102" Wide Liftgate)
2	85803836	2	Hinge
3	75085998	2	Flat Head Socket Cap Screw
4	85803585	2	Lock Washer
5	85803832	1	Cross Beam Assembly (96" Wide Liftgate)
	85803833	1	Cross Beam Assembly (102" Wide Liftgate)

# THRESHOLD EXTENSION



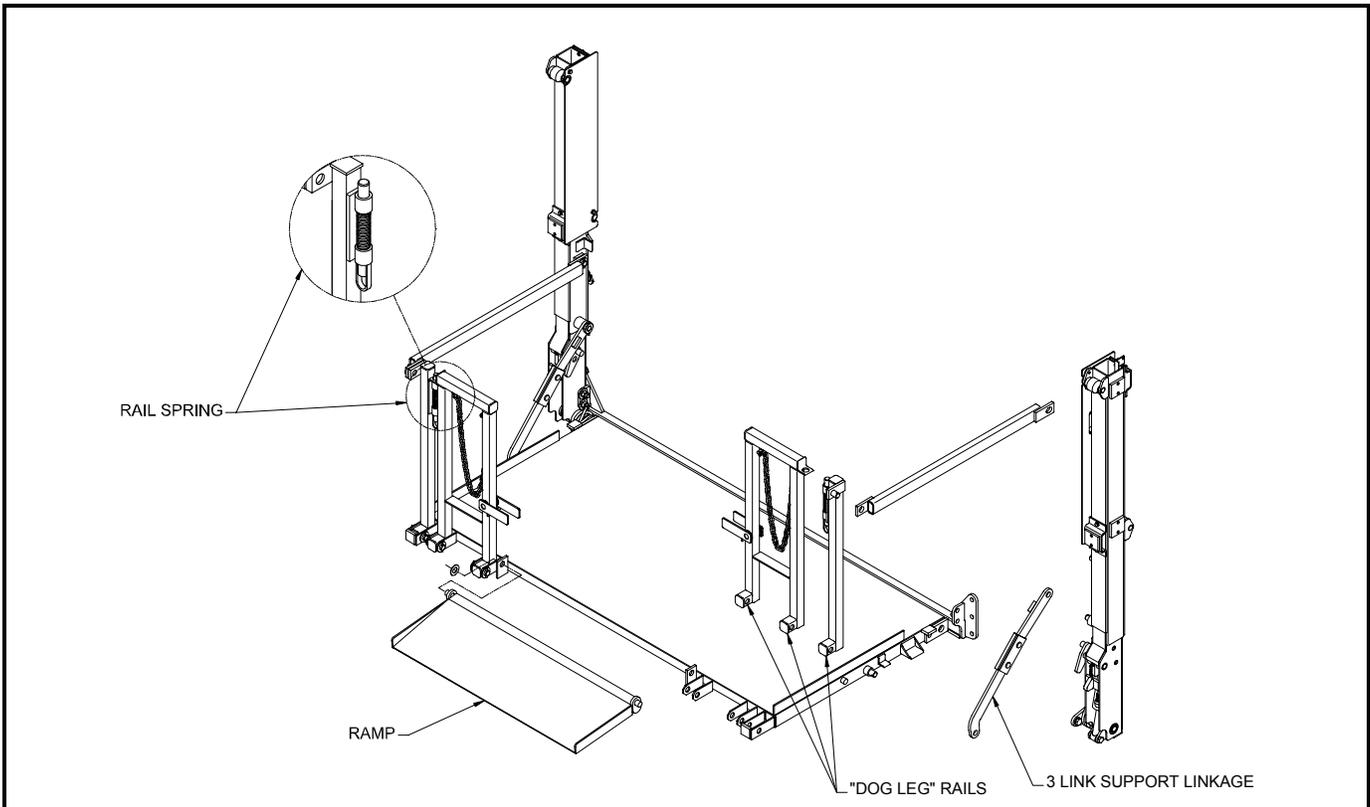
WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES

REVISED: 11-2-2001  
E.O. 4088  
REV. 01

**PM-363A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803830	1	Angle Assembly (96" Wide Liftgate)
	85803831	1	Angle Assembly (102" Wide Liftgate)
2	85803836	2	Hinge
3	75085998	2	Flat Head Socket Cap Screw
4	85803585	2	Lock Washer
5	31426001	1	Cross Beam Assembly (96" Wide Liftgate)
	32426001	1	Cross Beam Assembly (102" Wide Liftgate)

# WDLBG PLATFORM / RUNNERS (BOTTLED GAS)

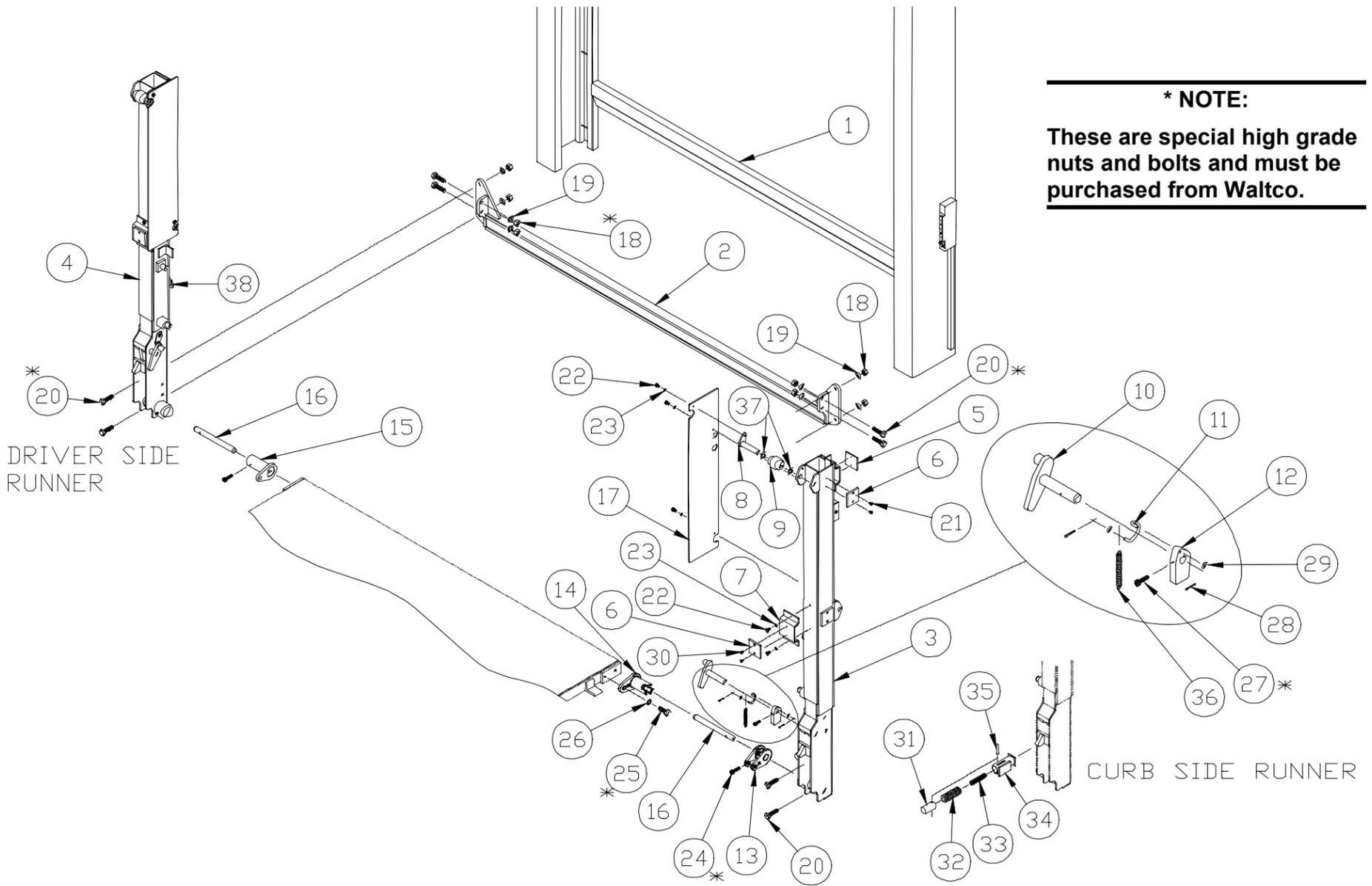


## Common Features

- Retention cage
- Ramp (16 x 45)
- Chain support
- ◆ Rail spring & "dog leg" rails on fold down retention
- ◆ Only built after 11/95
- ◆ Not available with Bottom Stops or Store Below Options

RUNNERS	PLATFORMS & LINKAGE	
<b>WDLBG</b> <b>PM-301</b> Built thru 10/98  <b>PM-486</b> Built from 10/98 thru 1/02  <b>PM-486A</b> Built from 1/02	<b>WDLBG Standard Rails</b> <b>PM-303</b> Built thru 10/98  <b>PM-488</b> Built from 10/98	<b>WDLBG Fold Down Rails</b> <b>PM-302</b> Built thru 10/98  <b>PM-487</b> Built from 10/98

**MAIN FRAME & RUNNER ASSEMBLY**



**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**WDLBG SERIES**

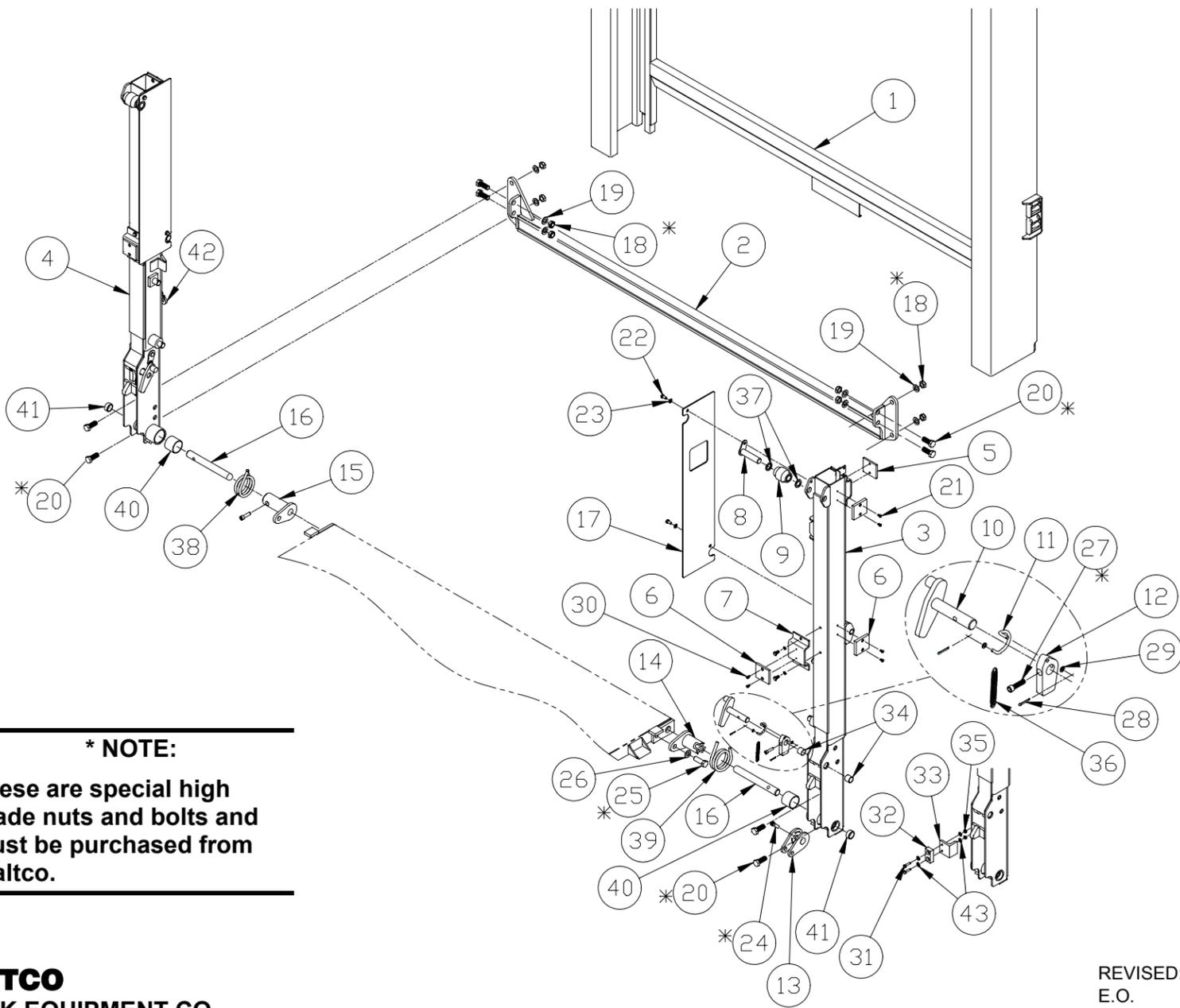
REVISED: 12/1/03  
 E.O. 5221  
 REV. 06

**PM-301**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	85803200	1	102" Main Frame Assembly
	85803217	1	96" Main Frame Assembly
2	85803301	1	102" Equalizer Beam
	85803386	1	96" Equalizer Beam
3	31235001	1	Curb Side Runner Assy
4	31235051	1	Driver Side Runner Assembly
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	85803393	4	Roller Pin Assembly
9	85803392	4	Roller Assembly
10	85803250	1	Curb Side Transit Latch Assembly
	85803251	1	Driver Side Transit Latch Assembly
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Driver Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001	1	Curb Side Outer Hub Assembly
14	31451101	1	Curb Side Inner Closer Hub Assembly
15	85803358	1	Driver Side Hub Assembly
16	85803129	2	Deck Pivot Pin Assembly w/ Grease Fitting
17	85803480	1	Curb Side Roller Guard Plate
	85803481	1	Driver Side Roller Guard Plate
*18	75085198	8	3/4"-16 Locknut (Grade 5)
	75088058	8	3/4" Plain Washer
*20	75086193	8	3/4"-16 X 2" Hex Head Bolt (Grade 5)
21	85803726	8	1/4"-20 X 3/8" Round Head Screw
22	75086055	13	3/8"-16 X 3/4" Hex Head Screw
23	75088081	13	3/8" Lock Washer
*24	85803465	2	1/2"-13 X 1-3/4" Socket Head Screw (Grade 8)
*25	75086229	2	3/4"-10 X 2-1/4" Hex Head Bolt (Grade 8)
26	75088087	2	3/4" Lock Washer
*27	85803237	2	3/8"-16 X 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053	4	3/32" X 1" Cotter Pin
29	75088051	4	1/4" Plain Washer
30	75086854	8	1/4"-20 X 3/4" Self Tapping Rd. Head Screw
31	85803521	1	Pusher Pin

ITEM	PART NUMBER	QTY	DESCRIPTION
32	85803522	1	Outer Pusher Spring
33	85803539	1	Inner Pusher Spring
34	85803520	1	Pusher Pin Housing
35	75089544	1	3/8" X 2-1/4" Coiled Pin
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze

# MAIN FRAME & RUNNER ASSEMBLY



**\* NOTE:**

These are special high grade nuts and bolts and must be purchased from Waltco.

**WALTCO**  
TRUCK EQUIPMENT CO.  
WDLBG RM SERIES

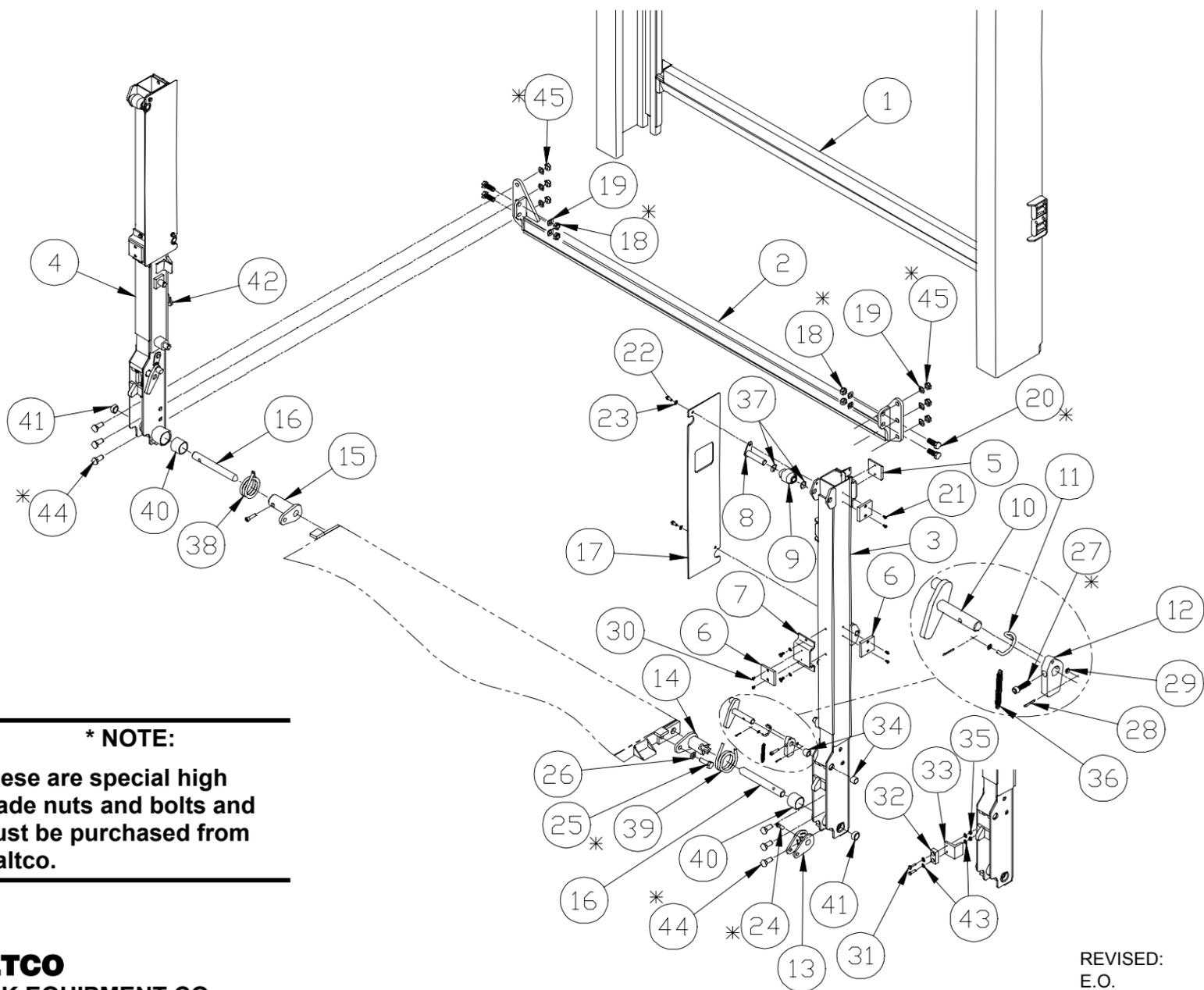
REVISED: 12/1/03  
E.O. 5221  
REV. 07

**PM-486**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31320001	1	96" Main Frame Assembly
	32320001	1	102" Main Frame Assembly
2	85803301	1	102" Equalizer Beam
	85803386	1	96" Equalizer Beam
3	31230001	1	Curb Side Runner Assy (2 Pc. Break Even Platform)
4	31230051	1	Driver Side Runner Assembly(2 Pc. Break Even Platform)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	31439001	4	Roller Pin Assembly
9	31439501	4	Roller Assembly
10	31333501	1	Curb Side Transit Latch Assembly (1 Pc. Platform)
	31333551	1	Driver Side Transit Latch Assembly (1 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Driver Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001	1	Curb Side Outer Hub Assembly
14	31451102	1	Curb Side Inner Closer Hub Assembly
15	31451301	1	Driver Side Hub Assembly
16	31411201	2	Deck Pivot Pin
17	31337501	1	Curb Side Roller Guard Plate 1 Pc. Platform
	85803481	1	Driver Side Roller Guard Plate 1 Pc. Platform
*18	75085198	8	3/4"-16 Locknut (Grade 5)
19	75088058	8	Flat Washer- 3/4" I.D. x 2" O.D.
*20	75086193	8	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	75086862	8	1/4"-20 x 1/2" Self Tapping Screw
22	75086055	12	3/8"-16 x 3/4" Hex Head Screw
23	75088081	12	3/8" Lock Washer
*24	85803465	2	1/2"-13 x 1-3/4" Socket Head Screw (Grade 8)
*25	75086229	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087	2	3/4" Lock Washer
*27	85803237	2	3/8"-16 x 1-1/2" Socket Head Cap Screw

ITEM	PART NUMBER	QTY	DESCRIPTION
			(Grade 5)
28	75084053	4	3/32" x 1" Cotter Pin
29	75088051	2	Flat Washer- 1/4" I.D. x 5/8" O.D.
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Head Screw
31	75086007	2	1/4"-20 x 1-1/4" Hex Bolt (Grade 2)
32	31436801	1	Rubber Pad Deck Stop
33	31434601	1	Angle Deck Stop
34	10010167	4	1-1/8" O.D. x 1" I.D. x 1" Lg. Bearing
35	75085161	2	1/4"-20 Nylon Locknut
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	31437151	1	Torsion Spring Platform Opening Street Side
39	31437101	1	Torsion Spring Platform Opening Curb Side
40	10010165	2	2-1/2" O.D. x 2-1/4" I.D. x 2" Lg. Bearing
41	10010166	2	1-1/2" O.D. x 1-1/4" I.D. x 5/8" Lg. Bearing
42	75089361	2	Chain Hook
43	75088060	4	Flat Washer- 1/4" I.D. x 3/4" O.D.

# MAIN FRAME & RUNNER ASSEMBLY



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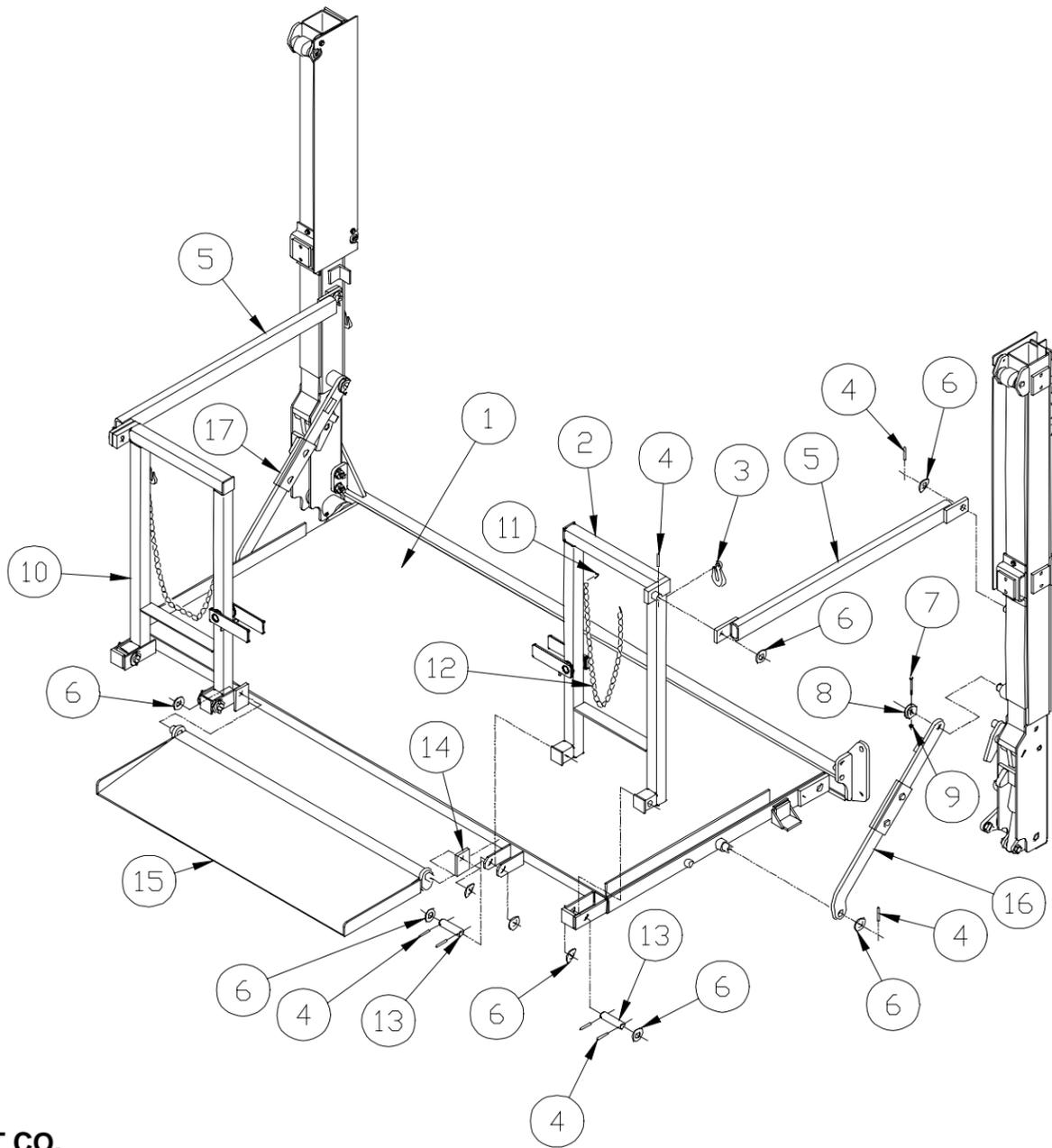
REVISED: 12/1/03  
E.O. 5221  
REV. 03

**PM-486A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31320002	1	96" Main Frame Assembly
	32320002	1	102" Main Frame Assembly
2	32365001	1	102" Equalizer Beam
	31365001	1	96" Equalizer Beam
3	31230001	1	Curb Side Runner Assy (Bottled Gas)
4	31230051	1	Driver Side Runner Assy (Bottled Gas)
5	85803328	2	Upper Runner Wear Pad
6	85803340	6	Side Runner Wear Pad
7	85803339	4	Wear Pad Mounting Channel
8	31439001	4	Roller Pin Assembly
9	31439501	4	Roller Assembly (includes Bearings)
10	31333501	1	Curb Side Transit Latch Assembly (1 Pc. Platform)
	31333551	1	Driver Side Transit Latch Assembly (1 Pc. Platform)
11	85803238	1	Curb Side Transit Latch Link
	85803233	1	Driver Side Transit Latch Link
12	85803235	1	Transit Latch Arm
13	31451001	1	Curb Side Outer Hub Assembly
14	31451102	1	Curb Side Inner Closer Hub Assembly
15	31451301	1	Driver Side Hub Assembly
16	31411201	2	Deck Pivot Pin
17	31337501	1	Curb Side Roller Guard Plate 1 Pc. Platform
	85803481	1	Driver Side Roller Guard Plate 1 Pc. Platform
*18	75085198	4	3/4"-16 Locknut (Grade 5)
19	75088058	10	Flat Washer- 3/4" I.D. x 2" O.D.
*20	75086193	4	3/4"-16 x 2" Hex Head Bolt (Grade 5)
21	75086862	8	1/4"-20 x 1/2" Self Tapping Screw
22	75086055	12	3/8"-16 x 3/4" Hex Head Screw
23	75088081	12	3/8" Lock Washer
*24	85803465	2	1/2"-13 x 1-3/4" Socket Head Screw (Grade 8)
*25	75086229	2	3/4"-10 x 2-1/4" Hex Head Bolt (Grade 8)
26	75088087	2	3/4" Lock Washer
*27	85803237	2	3/8"-16 x 1-1/2" Socket Head Cap Screw (Grade 5)
28	75084053	4	3/32" x 1" Cotter Pin

ITEM	PART NUMBER	QTY	DESCRIPTION
29	75088051	2	Flat Washer- 1/4" I.D. x 5/8" O.D.
30	75086854	8	1/4"-20 x 5/8" Self Tapping Rd. Head Screw
31	75086007	2	1/4"-20 x 1-1/4" Hex Bolt (Grade 2)
32	31436801	1	Rubber Pad Deck Stop
33	31434601	1	Angle Deck Stop
34	10010167	4	1-1/8" O.D. x 1" I.D. x 1" Lg. Bearing
35	75085161	2	1/4"-20 Nylon Locknut
36	37438902	2	Extension Spring
37	75081223	8	Washer Bronze
38	31437151	1	Torsion Spring Platform Opening Street Side
39	31437101	1	Torsion Spring Platform Opening Curb Side
40	10010165	2	2-1/2" O.D. x 2-1/4" I.D. x 2" Lg. Bearing
41	10010166	2	1-1/2" O.D. x 1-1/4" I.D. x 5/8" Lg. Bearing
42	75089361	2	Chain Hook
43	75088060	4	Flat Washer- 1/4" I.D. x 3/4" O.D.
*44	75087500	6	3/4"-10 x 2" Lg. Carriage Bolt (Grade 5)
*45	75085199	6	3/4"-10 Locknut (Grade 5)

**PLATFORM & LINKAGE ASSEMBLY (Fixed Rails)**



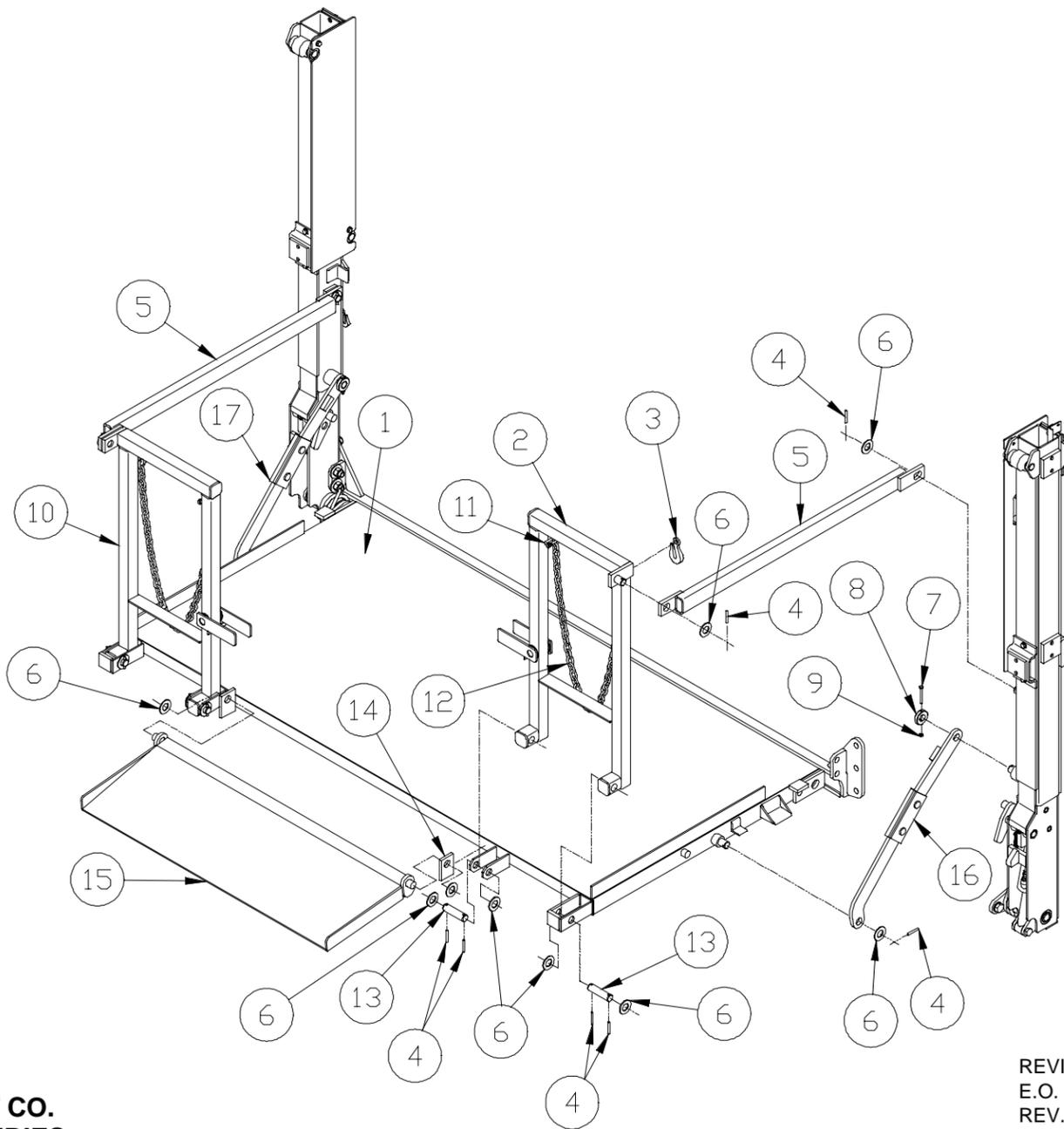
**WALTCO  
TRUCK EQUIPMENT CO.  
WDLBG SERIES**

REVISED: 12-18-98  
E.O. 3760  
REV. 03

**PM-303**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31211035	1	36" x 80" Deck Assy
	31211045	1	42" x 80" Deck Assy
	32211035	1	36" x 86" Deck Assy
	32211045	1	42" x 86" Deck Assy
2	31258001	1	Rear Guard Rail Assy (Curb Side)(80")
	32258001	1	Rear Guard Rail Assy (Curb Side)(86")
3	75089361	4	Chain Hook
4	75089541	14	1/4" Dia. x 1-7/8" Coiled Pin
5	31257036	2	Side Rail Assy (36")
	31257042	2	Side Rail Assy (42")
6	75088061	16	1" S.A.E. Washer
7	75086215	2	1/4"-20 x 2-1/2" Hex Bolt (Grade 8)
8	85803550	2	Linkage Retainer Collar
9	75085175	2	1/4"-20 Locknut (Grade 8)
10	31258051	1	Rear Guard Rail Assy (Street Side)(80")
	32258051	1	Rear Guard Rail Assy (Street Side)(86")
11	10193100	2	Half Link Plated Chain
12	36458342	2	Plated Chain
13	10370800	4	Pin
14	31214701	2	Bar Ramp Pivot
15	31214001	1	Ramp Assy
16	31255001	1	Platform Support Linkage Assy (Curb Side)
17	31255051	1	Platform Support Linkage Assy (Street Side)

**PLATFORM & LINKAGE ASSEMBLY – FIXED RAILS**



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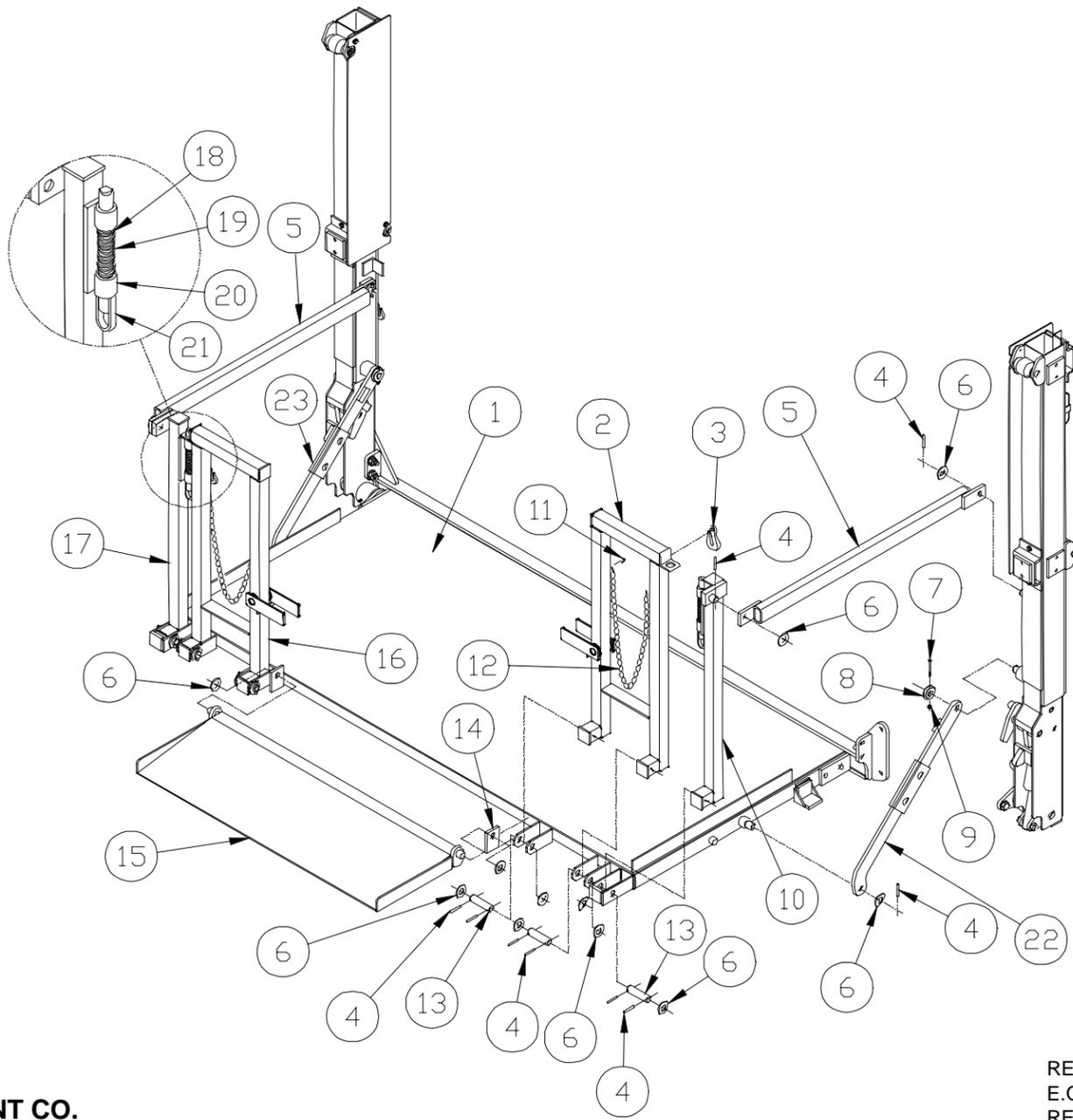
REVISED:  
E.O.  
REV.

1-4-2002  
4626  
05

**PM-488**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31211037	1	36" x 80" Deck Assy
	31211047	1	42" x 80" Deck Assy
	32211037	1	36" x 86" Deck Assy
	32211047	1	42" x 86" Deck Assy
2	31258001	1	Rear Guard Rail Assy (Curb Side) (80")
	32258001	1	Rear Guard Rail Assy (Curb Side) (86")
3	75089361	4	Chain Hook
4	75089541	14	1/4" Dia. x 1-7/8" Coiled Pin
5	31257036	2	Side Rail Assy (36")
	31257042	2	Side Rail Assy (42")
6	75088061	16	1" S.A.E. Washer
7	75086215	2	1/4"-20 x 2-1/2" Hex Bolt (Grade 8)
8	85803550	2	Linkage Retainer Collar
9	75085161	2	1/4"-20 Locknut (Grade 8)
10	31258051	1	Rear Guard Rail Assy (Street Side) (80")
	32258051	1	Rear Guard Rail Assy (Street Side) (86")
11	75089349	2	5/16" Cold Shut
12	36458342	2	Plated Chain
13	10370800	4	Pin
14	31214701	2	Bar Ramp Pivot
15	31214001	1	Ramp Assy
16	31255001	1	Platform Support Linkage Assy (Curb Side)
17	31255051	1	Platform Support Linkage Assy (Street Side)

# PLATFORM & LINKAGE ASSEMBLY (Fold Down Rails)



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WDLBG SERIES

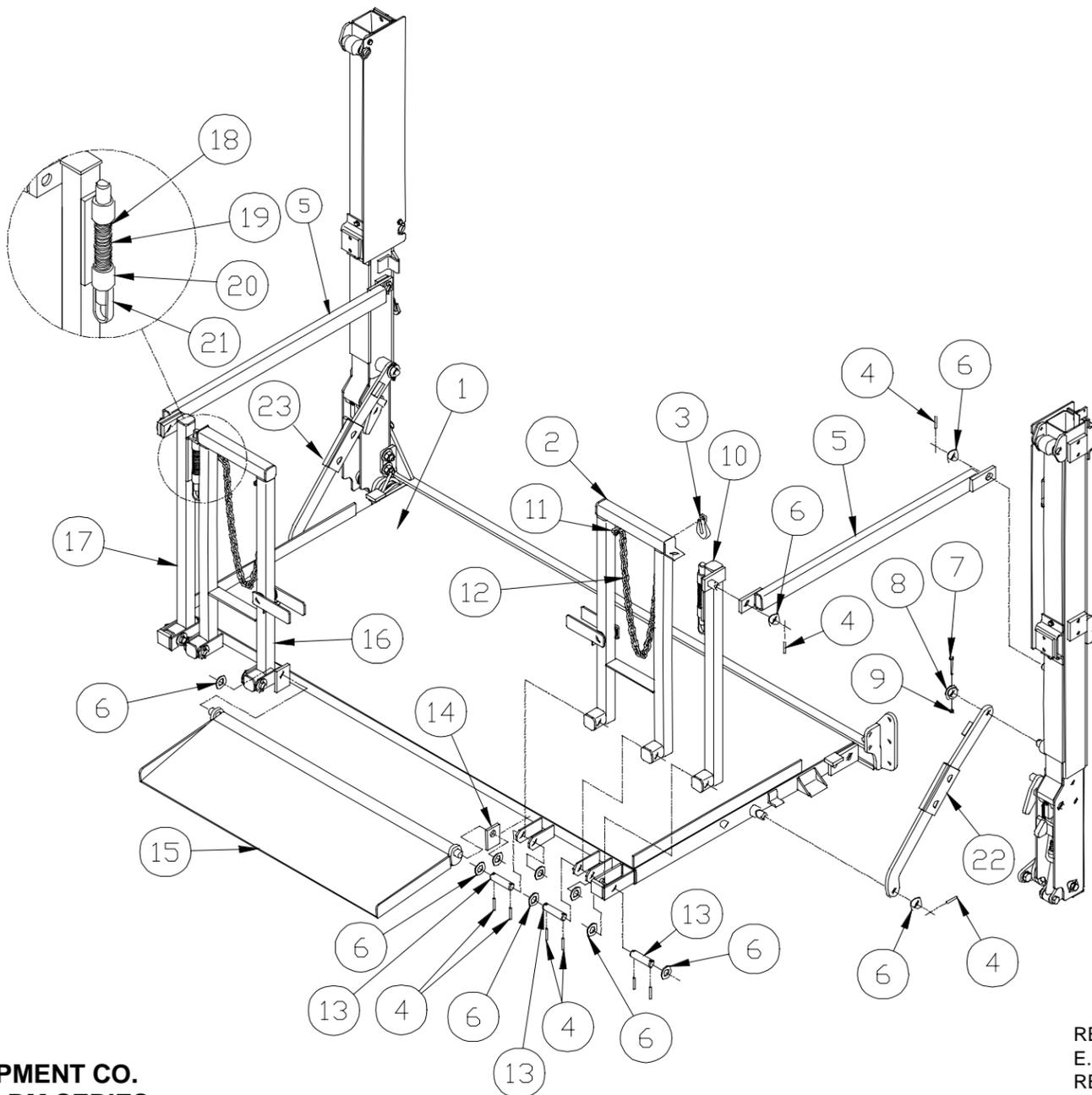
REVISED:  
E.O.  
REV.

12-18-98  
3760  
03

PM-302

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31211036	1	36" x 80" Deck Assy
	31211046	1	42" x 80" Deck Assy
	32211036	1	36" x 86" Deck Assy
	32211046	1	42" x 86" Deck Assy
2	31256501	1	Inner Guard Rail Assy (Curb Side)(80")
	32256501	1	Inner Guard Rail Assy (Curb Side)(86")
3	75089361	4	Chain Hook
4	75089541	18	1/4" Dia. x 1-7/8" Coiled Pin
5	31257036	2	Side Rail Assy (36")
	31257042	2	Side Rail Assy (42")
6	75088061	20	1" S.A.E. Washer
7	75086215	2	1/4"-20 x 2-1/2" Hex Bolt (Grade 8)
8	85803550	2	Linkage Retainer Collar
9	75085175	2	1/4"-20 Locknut (Grade 8)
10	31257501	1	Outer Guard Rail Assy (Curb Side)
11	10193100	2	Half Link Plated Chain
12	36458342	2	Plated Chain
13	10370800	6	Pin
14	31214701	2	Bar Ramp Pivot
15	31214001	1	Ramp Assy
16	31256551	1	Inner Guard Rail Assy (Street Side)(80")
	32256551	1	Inner Guard Rail Assy (Street Side)(86")
17	31257551	1	Outer Guard Rail Assy (Street Side)
18	75089557	2	1/4" Dia. x 1-1/2" Coiled Pin
19	75089756	2	Compression Spring
20	36459501	2	Guard Rail Latch Housing
21	36458501	2	Guard Rail Latch Handle Assy
22	31255001	1	Platform Support Linkage Assy (Curb Side)
23	31255051	1	Platform Support Linkage Assy (Street Side)

# PLATFORM & LINKAGE ASSEMBLY – FOLD DOWN RAILS



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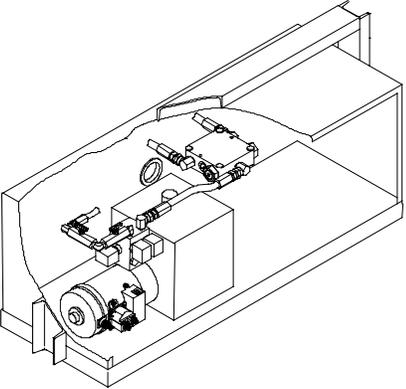
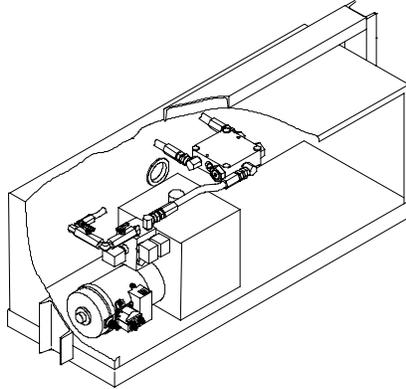
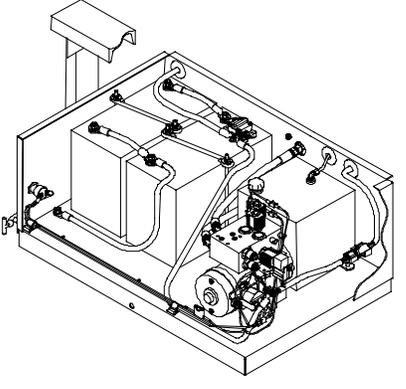
REVISED:  
E.O.  
REV.

1-4-2002  
4626  
04

**PM-487**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31211038	1	36" x 80" Deck Assy
	31211048	1	42" x 80" Deck Assy
	32211038	1	36" x 86" Deck Assy
	32211048	1	42" x 86" Deck Assy
2	31256501	1	Inner Guard Rail Assy (Curb Side)(80")
	32256501	1	Inner Guard Rail Assy (Curb Side)(86")
3	75089361	4	Chain Hook
4	75089541	18	1/4" Dia. x 1-7/8" Coiled Pin
5	31257036	2	Side Rail Assy (36")
	31257042	2	Side Rail Assy (42")
6	75088061	20	1" S.A.E. Washer
7	75086215	2	1/4"-20 x 2-1/2" Hex Bolt (Grade 8)
8	85803550	2	Linkage Retainer Collar
9	75085161	2	1/4"-20 Locknut (Grade 8)
10	31257501	1	Outer Guard Rail Assy (Curb Side)
11	75089349	2	5/16" Cold Shut
12	36458342	2	Plated Chain
13	10370800	6	Pin
14	31214701	2	Bar Ramp Pivot
15	31214001	1	Ramp Assy
16	31256551	1	Inner Guard Rail Assy (Street Side)(80")
	32256551	1	Inner Guard Rail Assy (Street Side)(86")
17	31257551	1	Outer Guard Rail Assy (Street Side)
18	75089557	2	1/4" Dia. x 1-1/2" Coiled Pin
19	75089756	2	Compression Spring
20	36459501	2	Guard Rail Latch Housing
21	36458501	2	Guard Rail Latch Handle Assy
22	31255001	1	Platform Support Linkage Assy (Curb Side)
23	31255051	1	Platform Support Linkage Assy (Street Side)

# WDL-SERIES HYDRAULICS & CONTROLS

<b>Common Features</b> <ul style="list-style-type: none"> <li>• Power up/Gravity down (standard)</li> <li>• Power up/Power down (Special – contact Engineering for assistance)</li> <li>• Cylinder closing</li> <li>• Controls on Curb Side</li> </ul>		
<b>WDL Series – Push Button control</b> Built thru 10/98  If Built prior to 3-95 see <a href="#">Note 2</a> below	<b>WDL RM Series – Super Switch control. Pump is in an enclosure with a hinged front door</b> Built from 10/98 thru 1/01	<b>WDL RM Series – Super Switch control. Pump is in an enclosure with a removable cover</b> Built from 1/01
		
Liftgate Hydraulic and Single Pump Hydraulic Layout <b>PM-350</b>  Single Pump w/ Hand Pump Hydraulic Layout <b>PM-384</b>  Dual Pump Hydraulic Layout <b>PM-383</b>  Electrical Layout <b>PM-351</b>	Liftgate Hydraulic and Single Pump Hydraulic Layout <b>PM-478</b>  Single Pump w/ Hand Pump Hydraulic Layout <b>PM-480</b>  Dual Pump Hydraulic Layout <b>PM-479</b>  Electrical Layout <b>PM-481</b>	Liftgate Hydraulic and Electrical Layout <b>PM-532</b>  Single Pump and Single Pump w/ Hand Pump Hydraulic and Electrical Layout <b>PM-534</b>  Dual Pump Hydraulic and Electrical Layout <b>PM-535</b>

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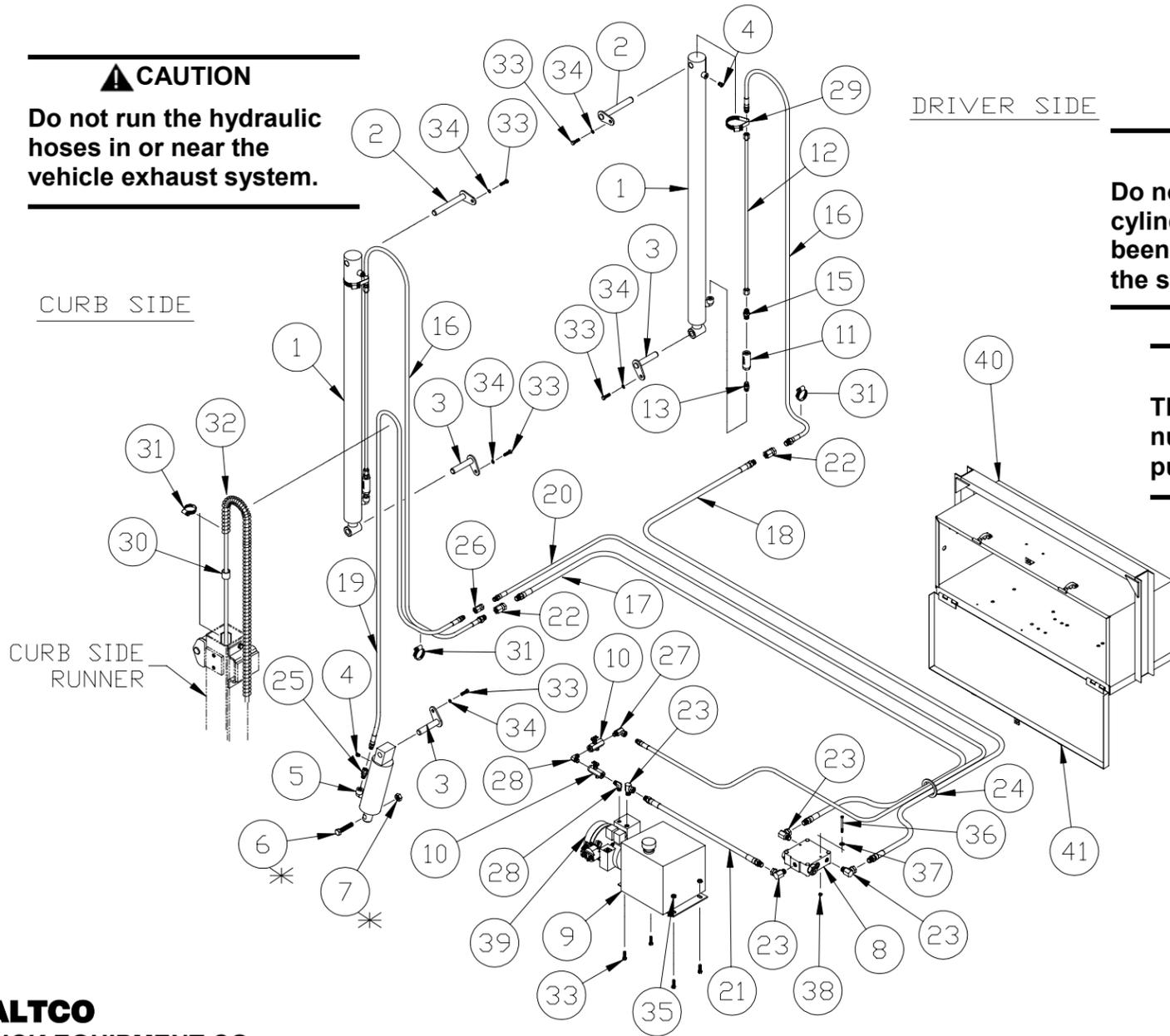
## NOTES:

1. We have built several different SP pump enclosures over the years for different customers. When ordering enclosure parts (Doors, latches etc) it is important to have the customer measure the overall size of his current enclosure to be sure you get the correct parts.
2. Refer to [Tech Tip TT970001](#) when customer wants to order a closer cylinder for liftgates built prior to 4/1/95.

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

**CAUTION**

Do not run the hydraulic hoses in or near the vehicle exhaust system.



**NOTE:**

Do not connect hose to the lift cylinder until the system has been bled and all air is out of the system.

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**WALTCO**  
TRUCK EQUIPMENT CO.  
WDL SERIES

REVISED: 12/1/03  
E.O. 5221  
REV. 12

**PM-350**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	32680050 <sup>A</sup>	2	Lift Cylinder
2	85803345 <sup>A</sup>	2	Upper Lift Cylinder Pin
3	85803343 <sup>A</sup>	3	Cylinder Pin
4	75089315	3	Breather
5	32480011 <sup>B</sup>	1	Closer Cylinder
*6	85803362	1	Lower Closer Cylinder Bolt(Special 5/8"-18UNF x 2-1/2" Lg. Grade 8)
*7	75085183	1	5/8"-18 Lock Nut(Grade 8)
8	85803810	1	Flow Divider Valve
9	70400975	1	Hydraulic Pump Unit - Single Pump
10	70189860	2	Adjustable Flow Control Valve
11	85803806	2	Pressure Compensated Flow Control Valve
12	85803813	2	Fluid Line Assembly
13	75082614	2	1/4" NPT x 1/4" NPT Male Pipe Nipple
15	85803804	2	1/4" NPT x 1/4" Tube Adapter
16	85803812	2	1/4" x 3/8" NPT x 3/8" Tube x 115" Lg. Hose Assembly
17	75083069	1	3/8" x 3/8" NPT x 3/8" NPT x 65" Lg. Hose Assembly (Truck Kit only)
	75083078	2	3/8" x 3/8" NPT x 3/8" NPT x 372" Lg. Hose Assembly (Trailer Kit only)
18	75083079	1	3/8" x 3/8" NPT x 3/8" NPT x 135" Lg. Hose Assembly (Truck Kit only)
19	85803917	1	Hose and Cable Assembly (Hose Sold as Assembly Only)
20	75083076	1	1/4" x 1/4" NPT x 1/4" NPT x 76" Lg. Hose Assembly (Truck Kit only)
	75083077	1	1/4" NPT x 1/4" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
21	75083055	1	3/8" x 3/8" NPT x 3/8" NPT x 22" Lg. Hose Assembly
22	75082922	2	3/8" NPT Female Swivel Adapter
23	75083036	4	3/8" NPT 90° Swivel Elbow
24	85803439	1	2-1/8" ID Rubber Grommet
25	75082912	1	1/4" NPT Straight Swivel Adapter
26	75082921	1	1/4" NPT Female Swivel Adapter
27	75083031	1	1/4" NPT 90° Swivel Elbow
28	75082611	2	1/4" NPT 90° Male Elbow
29	85803469	2	3" Dia. Hose Clamp
30	85803395	1	Spring Guard Bushing
31	85803470	3	1-3/4" Dia. Hose Clamp

ITEM	PART NUMBER	QTY	DESCRIPTION
32	85803819	1	Spring Guard
33	75086055 <sup>A</sup>	9	3/8"-16 x 3/4" Hex Head Screw
34	75088081 <sup>A</sup>	5	3/8" Lock Washer
35	75085005	2	3/8"-16 Serrated Hex Nut
36	75086012	2	1/4"-20 x 2-1/2" Hex Head Screw
37	75088051	2	1/4" Plain Washer
38	75085175	2	1/4"-20 Hex Locknut
39	70400851	1	Motor/Solenoid Assembly
40	85803901	1	Hydraulic Enclosure Assembly Complete
41	85803910	1	Hydraulic Enclosure Door (with Hinges)

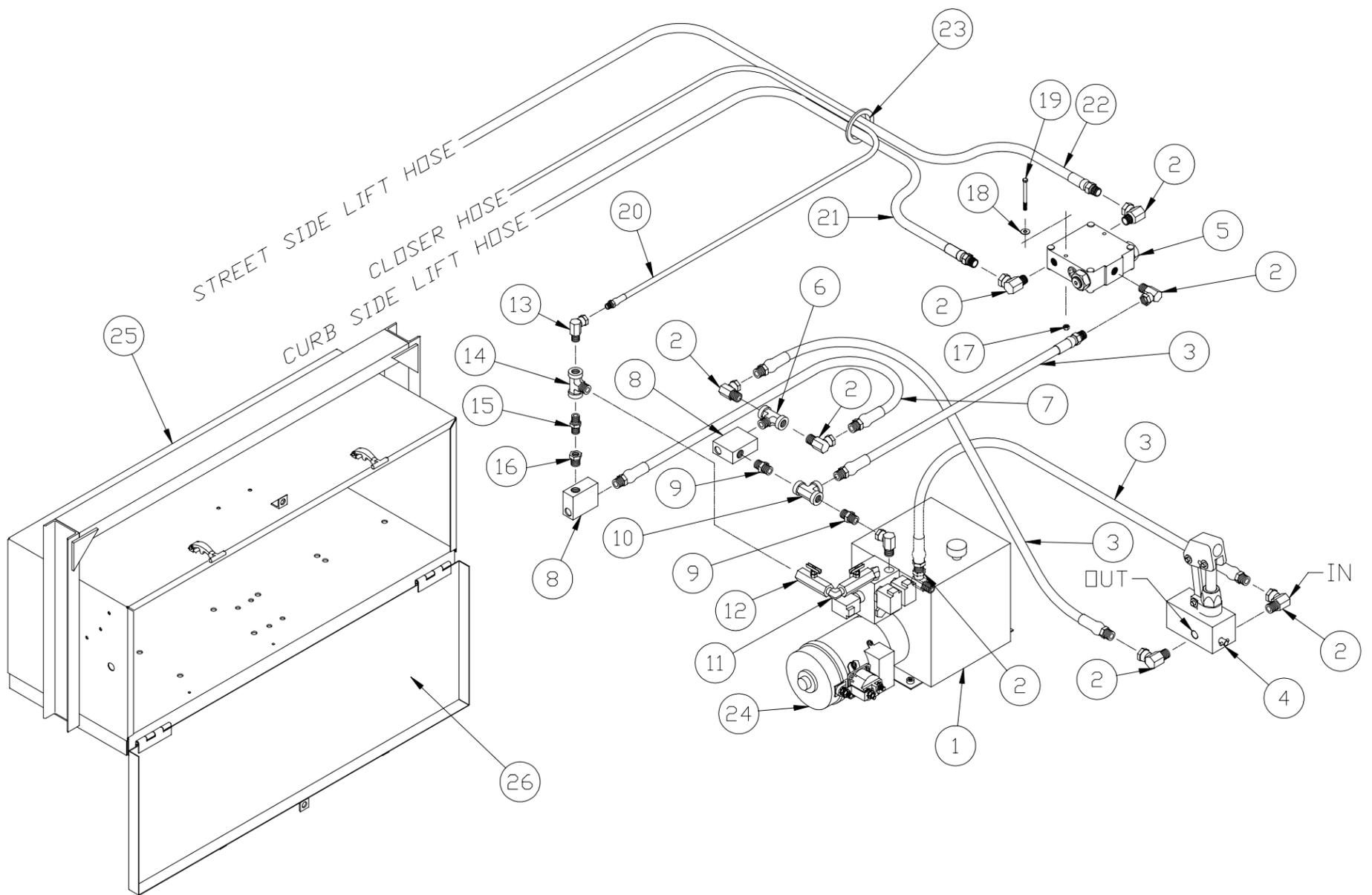
<sup>A</sup> Included in Lift Cylinder Replacement Kit 80000941 (One cylinder per kit)

<sup>B</sup> Closure hub kit must be purchased when ordering hubs or closure cylinder on gates built before 4/1/95. Part # 80000654. Refer to [Tech Tip TT970001](#) for more information.

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# SINGLE PUMP w/ HAND PUMP HYDRAULIC LAYOUT



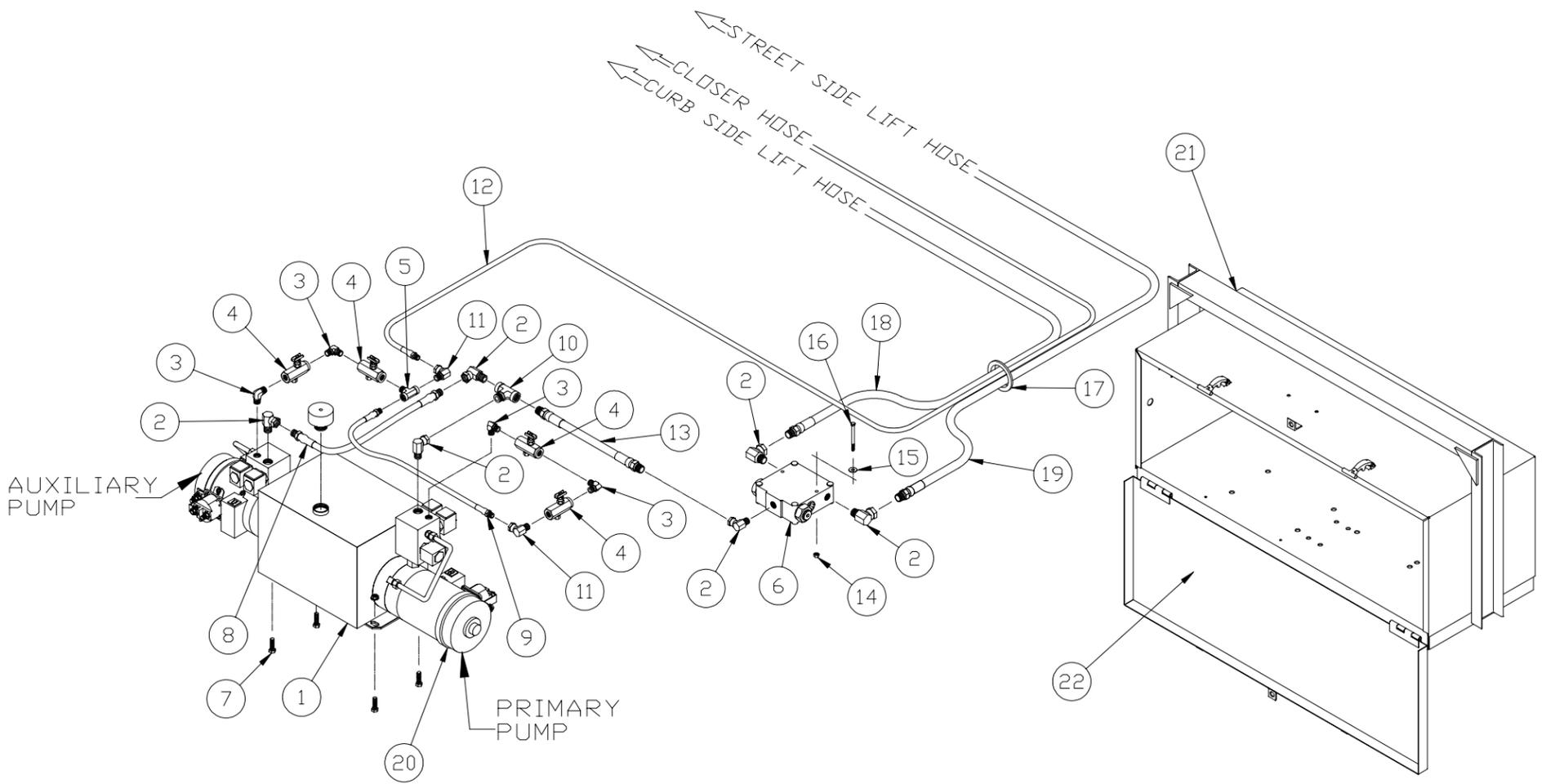
**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**WDL SERIES**

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

**PM-384**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400975	1	Hydraulic Pump Unit
2	75083036	9	3/8" NPT 90° Swivel Elbow
3	75083055	3	3/8" x 3/8" NPT x 3/8" NPT x 22" Lg. Hose Assembly
4	99082005	1	Hand Pump
5	85803810	1	Flow Divider Valve
6	75082859	1	3/8" NPT Female Tee (Male on Side)
7	75083067	1	3/8" x 3/8" NPT x 3/8" NPT x 30" Lg. Hose Assembly
8	70189846	2	3/8" NPT Check Valve
9	75082613	2	3/8" NPT Male Nipple
10	75082860	1	3/8" NPT Female Tee
11	75082611	2	1/4" NPT Male Elbow
12	70189860	2	Adjustable Flow Control Valve
13	75083031	1	1/4" NPT 90° Swivel Elbow
14	75082858	1	1/4" NPT Female Tee (Male on Side)
15	75082614	1	1/4" NPT Male Nipple
16	75082908	1	3/8" NPT Male x 1/4" NPT Female Bushing
17	75085175	2	1/4"-20 Hex Nut
18	75088051	2	1/4" Flat Washer
19	75086012	2	1/4"-20 x 2-1/2" Hex Head Screw
20	75083076	1	1/4" x 1/4" NPT x 1/4" NPT x 76" Lg. Hose Assembly (Truck Kit Only)
	75083077	1	1/4" x 1/4" NPT x 1/4" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
21	75083069	1	3/8" x 3/8" NPT x 3/8" NPT x 65" Lg. Hose Assembly (Truck Kit Only)
	75083078	2	3/8" x 3/8" NPT x 3/8" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
22	75083079	1	3/8" x 3/8" NPT x 3/8" NPT x 135" Lg. Hose Assembly (Truck Kit Only)
23	85803439	1	2-1/8" I.D. Rubber Grommet
24	70400851	1	Motor/Solenoid Assembly
25	85803901	1	Hydraulic Enclosure Assembly Complete
26	85803910	1	Hydraulic Enclosure Door (with Hinges)

# DUAL PUMP HYDRAULIC LAYOUT



**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**WDL SERIES**

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

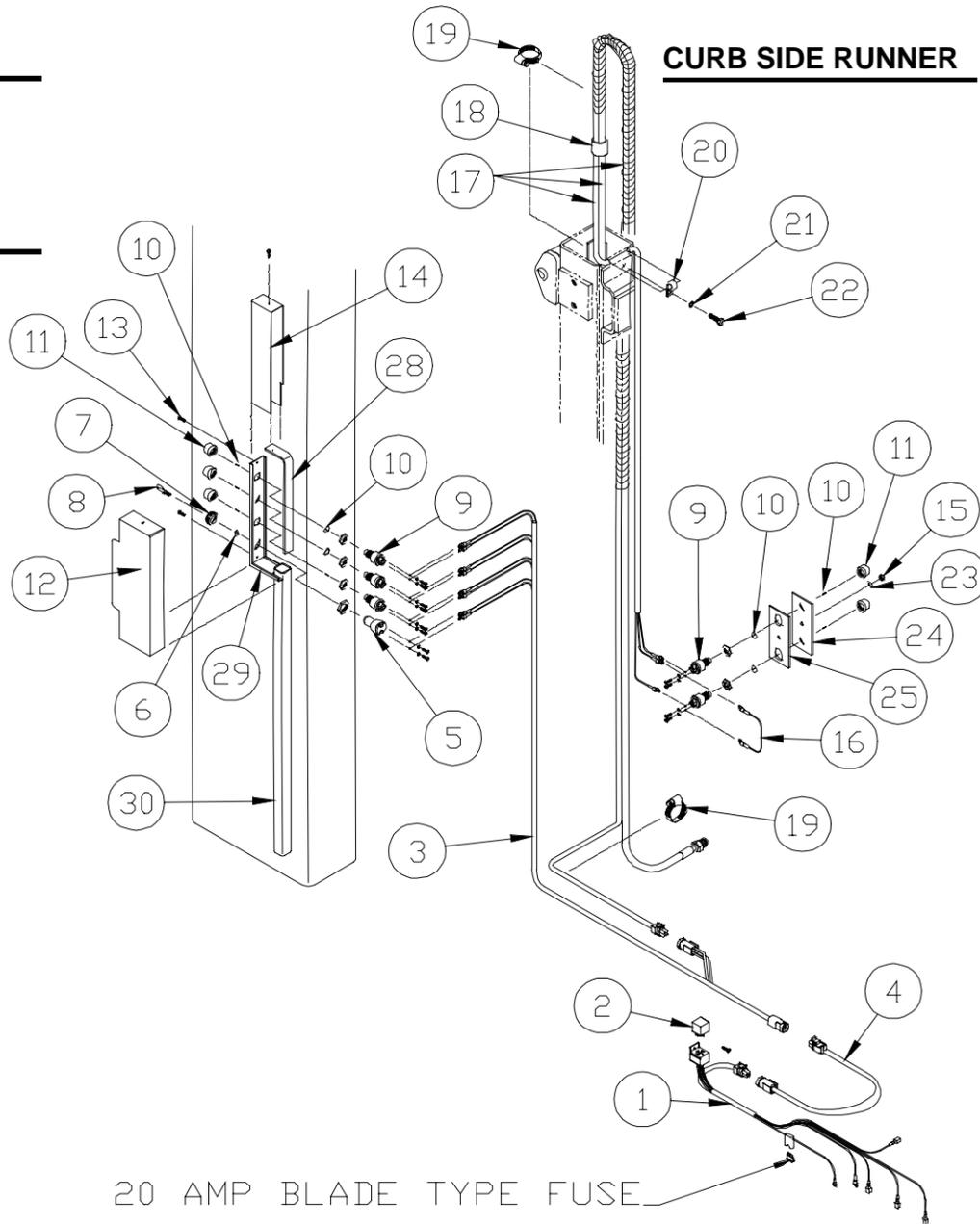
**PM-383**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401000	1	Dual Pump Hydraulic Unit
2	75083036	6	3/8" NPT 90° Swivel Elbow
3	75082611	4	1/4" NPT 90° Male Elbow
4	70189860	4	Adjustable Flow Control Valve
5	75082858	1	1/4" NPT Female Tee (Male on Side)
6	85803810	1	Flow Divider Valve
7	75086055	4	3/8"-16 x 3/4" Hex Head Bolt
8	75083054	1	3/8" x 3/8" NPT x 3/8" NPT x 14" Lg. Hose Assembly
9	75083066	1	1/4" x 1/4" NPT x 1/4" NPT x 19" Lg. Hose Assembly
10	75082859	1	3/8" NPT Female Tee (Male on Side)
11	75083031	2	1/4" NPT 90° Swivel Elbow
12	75083076	1	1/4" x 1/4" NPT x 1/4" NPT x 76" Lg. Hose Assembly (Truck Kit Only)
	75083077	1	1/4" x 1/4" NPT x 1/4" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
13	75083055	1	3/8" x 3/8" NPT x 3/8" NPT x 22" Lg. Hose Assembly
14	75085175	2	1/4"-20 Hex Lock Nut
15	75088051	2	1/4" Flat Washer
16	75086012	2	1/4"-20 x 2-1/2" Hex Head Screw
17	85803439	1	2-1/8" I.D. Rubber Grommet
18	75083069	1	3/8" x 3/8" NPT x 3/8" NPT x 65" Lg. Hose Assembly (Truck Kit Only)
	75083078	2	3/8" x 3/8" NPT x 3/8" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
19	75083079	1	3/8" x 3/8" NPT x 3/8" NPT x 135" Lg. Hose Assembly (Truck Kit Only)
20	70400851	2	Motor/Solenoid Assembly
21	85803901	1	Hydraulic Enclosure Assembly Complete
22	85803910	1	Hydraulic Enclosure Door (with Hinges)

# ELECTRICAL LAYOUT

**CAUTION**

Do not run the hydraulic hoses in or near the vehicle exhaust system.



**WALTCO  
TRUCK EQUIPMENT CO.  
WDL SERIES**

20 AMP BLADE TYPE FUSE

REVISED:  
E.O.  
REV.

09/28/01  
4585  
09

**PM-351**

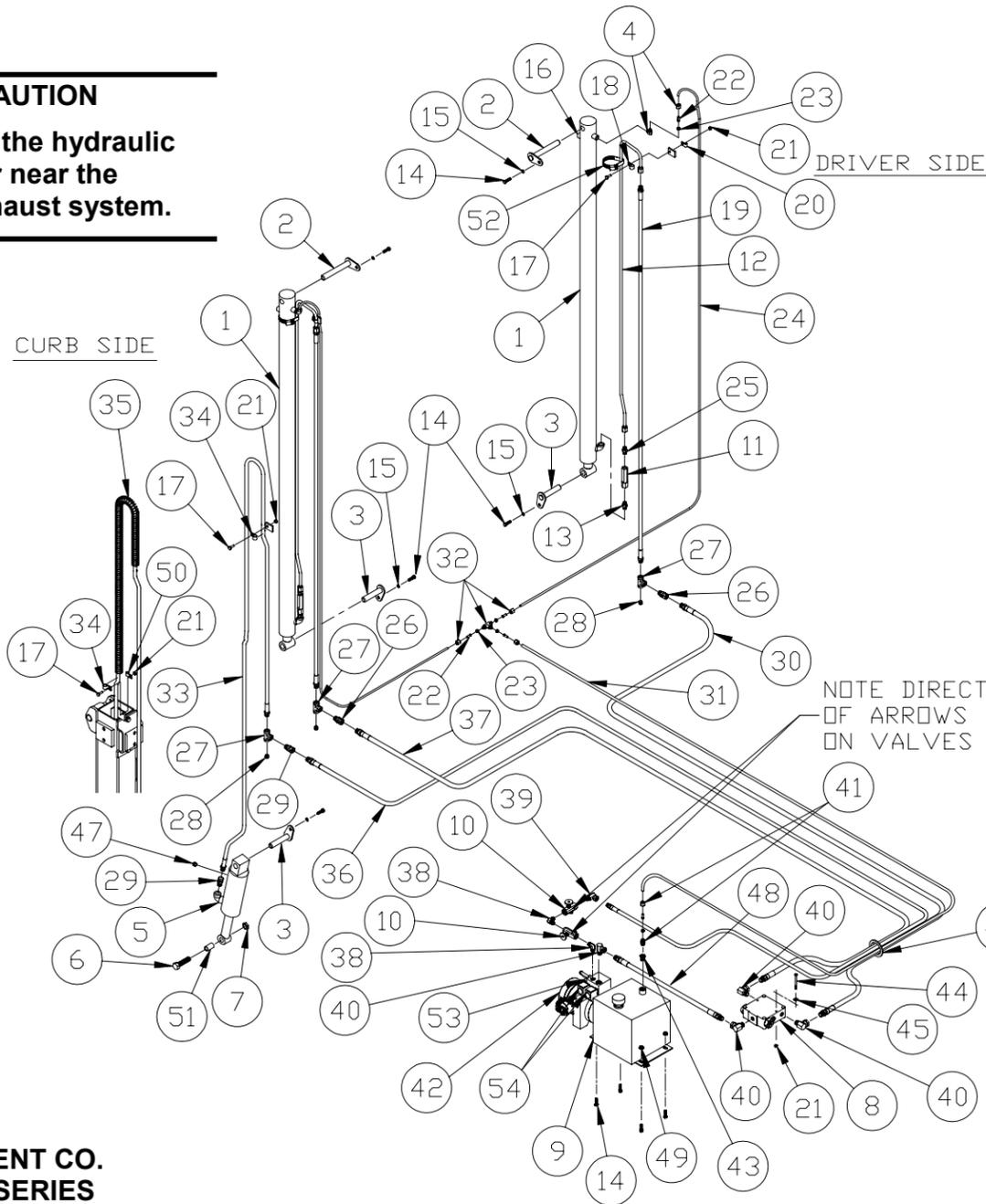
ITEM	PART NUMBER	QTY	DESCRIPTION
1	31491801	1	Motor Wiring Harness w/ Relay Socket & Fuse Holder
2	85803921	1	Relay 12 Volt/30 Amp
3	85803919	1	Control Wiring Harness
4	85803946	1	Control Harness Extension (Trailer Kit Only)
5	75089782	1	Key Switch w/ Jam Nut
6	75000030	1	"O" Ring
7	75089769	1	Rubber Key Switch Cap
8	75089783	1	Switch Key
9	75089805 <sup>B</sup>	5	Push Button Switch w/ Jam Nut
10	75000520 <sup>B</sup>	10	Seal Ring
11	75089768	5	Rubber Push Button Switch Cap
12	85803923	1	Switch Box Cover
13	75086852 <sup>B</sup>	3	# 8-32 X 3/8" Self Tapping Screw
14	37475103	1	Dielectric Insulation
15	75085175 <sup>B</sup>	1	1/4"-20 Hex Nut
16	85803913 <sup>B</sup>	1	Jumper Wire Assembly
17	85803917 <sup>A</sup>	1	Hose and Cable Assembly
18	85803395	1	Spring Guard Bushing
19	85803470	2	1-3/4" Hose Clamp
20	75083043	1	5/16" Hose Clamp
21	75088081	1	3/8" Lock Washer
22	75086055	1	3/8"-16 x 3/4" Hex Hd Screw
23	75088079 <sup>B</sup>	1	1/4" Lock Washer
24	85803468	1	Switch Mounting Plate
25	85803467 <sup>B</sup>	1	Gasket Switch Cover
26	80000581	5	Switch Kit (Includes Items 9 thru 11)
27	80000570	1	Switch Box Kit (Includes Items 28 & 29)
28	37474303	1	Switch Box Mount Bracket
29	85803922	1	Switch Mount Bracket
30	37474101	1	Control Wire Tube

<sup>A</sup> Included in Replacement Assembly 85803917. Not sold separately.

<sup>B</sup> Included in Push Button Switch Replacement Kit 80000953.

**CAUTION**

Do not run the hydraulic hoses in or near the vehicle exhaust system.



**\* NOTE**

These are special high grade nuts and bolts and must be purchased from Waltco.

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TRUCK EQUIPMENT CO.  
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REVISED: 12/1/03  
E.O. 5221  
REV. 08

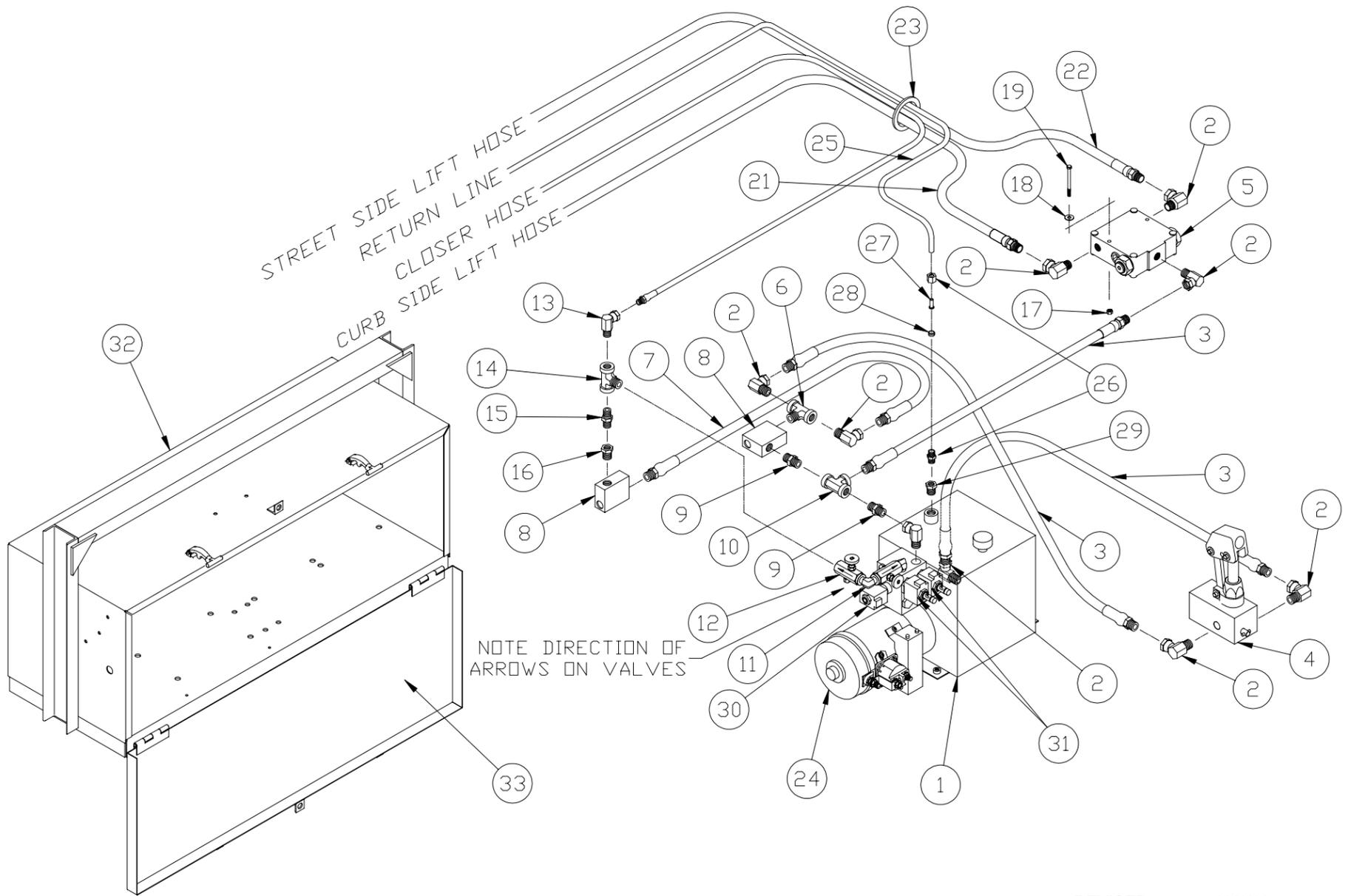
**PM-478**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	32680051 <sup>A</sup>	2	Lift Cylinder
2	31470501 <sup>A</sup>	2	Upper Lift Cylinder Pin
3	31471501 <sup>AB</sup>	3	Cylinder Pin
4	75082877	2	1/4" NPT x 1/4" Compression 90° Elbow
5	32480012 <sup>B</sup>	1	Closer Cylinder
*6	85803362 <sup>B</sup>	1	Lower Closer Cylinder Bolt (Special 5/8"-18UNF x 2-1/2" Lg. Grade 8)
*7	75085183 <sup>B</sup>	1	5/8"-18 Lock Nut (Grade 8)
8	85803810	1	Flow Divider Valve
9	70400975	1	Hydraulic Pump Unit - Single Pump
10	70189860	2	Adjustable Flow Control Valve
11	85803806	2	Pressure Compensated Flow Control Valve
12	31493301	2	Fluid Line Assembly
13	75082614	2	1/4" NPT x 1/4" NPT Male Pipe Nipple
14	75086055 <sup>AB</sup>	9	3/8"-16 x 3/4" Hex Head Screw
15	75088081 <sup>AB</sup>	5	3/8" Lock Washer
16	31493601	2	Bleeder Screw w/ Seal Washer
17	75086062	4	1/4"-20 x 3/4" Lg. Hex Bolt (Grade 5)
18	75082881	2	Hose Clamp Insulated 3/8" I.D.
19	75083092	2	1/4" x 1/4" NPT x 3/8" Tube x 89-5/8" Lg. Hose Assembly
20	75082879	2	Hose Clamp Insulated 1/4" I.D.
21	75085161	6	1/4"-20 Hex Locknut
22	75082874 <sup>A</sup>	5	Brass Insert (For Compression Fittings)
23	75082873 <sup>A</sup>	5	Delrin Sleeve (For Compression Fittings)
24	31493101 <sup>A</sup>	2	1/4" O.D. x 192" Lg. Nylon Tubing
25	85803804	2	1/4" NPT x 1/4" Tube Adapter
26	75082916	2	1/4" NPT Male x 3/8" NPT Male Swivel Adapter
27	75082861	3	1/4" NPT Female Tee
28	75089559	6	1/4" NPT Plug
29	75082912	2	1/4" NPT Male x 1/4" NPT Male Swivel
30	75083079	1	3/8" x 3/8" NPT x 3/8" NPT x 135" Lg. Hose Assembly (Truck Kit only)
31	82021039	1	1/4" OD x 14 ft. Nylon Tubing (for Trucks)
	82021039	1	1/4" OD x 36 ft. Nylon Tubing (for Trailers)
32	75082876	1	1/4" Compression Tee
33	75083093	1	1/4" x 1/4" NPT x 1/4" NPT x 170" Lg. Hose Assembly
34	75083044	2	Hose Clamp Insulated 1/2" I.D.

ITEM	PART NUMBER	QTY	DESCRIPTION
35	31493501	1	Spring Guard
36	75083076	1	1/4" x 1/4" NPT x 1/4" NPT x 76" Lg. Hose Assembly (Truck Kit only)
	75083077	1	1/4" NPT x 1/4" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
37	75083069	1	3/8" x 3/8" NPT x 3/8" NPT x 65" Lg. Hose Assembly (Truck Kit only)
	75083078	2	3/8" x 3/8" NPT x 3/8" NPT x 372" Lg. Hose Assembly (Trailer Kit only)
38	75082611	2	1/4" NPT 90° Male Elbow
39	75083031	1	1/4" NPT 90° Swivel Elbow
40	75083036	4	3/8" NPT 90° Swivel Elbow
41	75082878	1	1/4" NPT Male x 1/4" Compression Adapter
42	70400854	1	Motor/Solenoid Assembly
43	75082908	1	3/8" NPT Male x 1/4" NPT Female Bushing
44	75086012	2	1/4"-20 x 2-1/2" Hex Head Screw
45	75088051	2	1/4" Plain Washer
46	85803439	1	2-1/8" ID Rubber Grommet
47	75089315	1	Breather
48	75083055	1	3/8" x 3/8" NPT x 3/8" NPT x 22" Lg. Hose Assembly
49	75085005	2	3/8"-16 Serrated Hex Nut
50	75082880	2	Hose Clamp Insulated 5/16" I.D.
51	32481712	1	3/4" O.D. x 5/8" I.D. x 1-1/4" Lg. Bearing
52	85803469	2	3" Dia. Hose Clamp
53	70092501	1	Valve Assembly 3-Way/ 2-Position Solenoid Coil Valve
54	70092517	2	Valve Assembly w/ Manual Over-Ride 2-Way/ 2-Position Solenoid Coil Valve
55	85803901	1	Hydraulic Enclosure Assembly Complete
56	85803910	1	Hydraulic Enclosure Door (with Hinges)

<sup>A</sup> Included in Lift Cylinder Replacement Kit 80000942.  
<sup>B</sup> Included in Lift Cylinder Replacement Kit 80000944.

# SINGLE PUMP w/ HAND PUMP HYDRAULIC LAYOUT



**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**WDL RM SERIES**

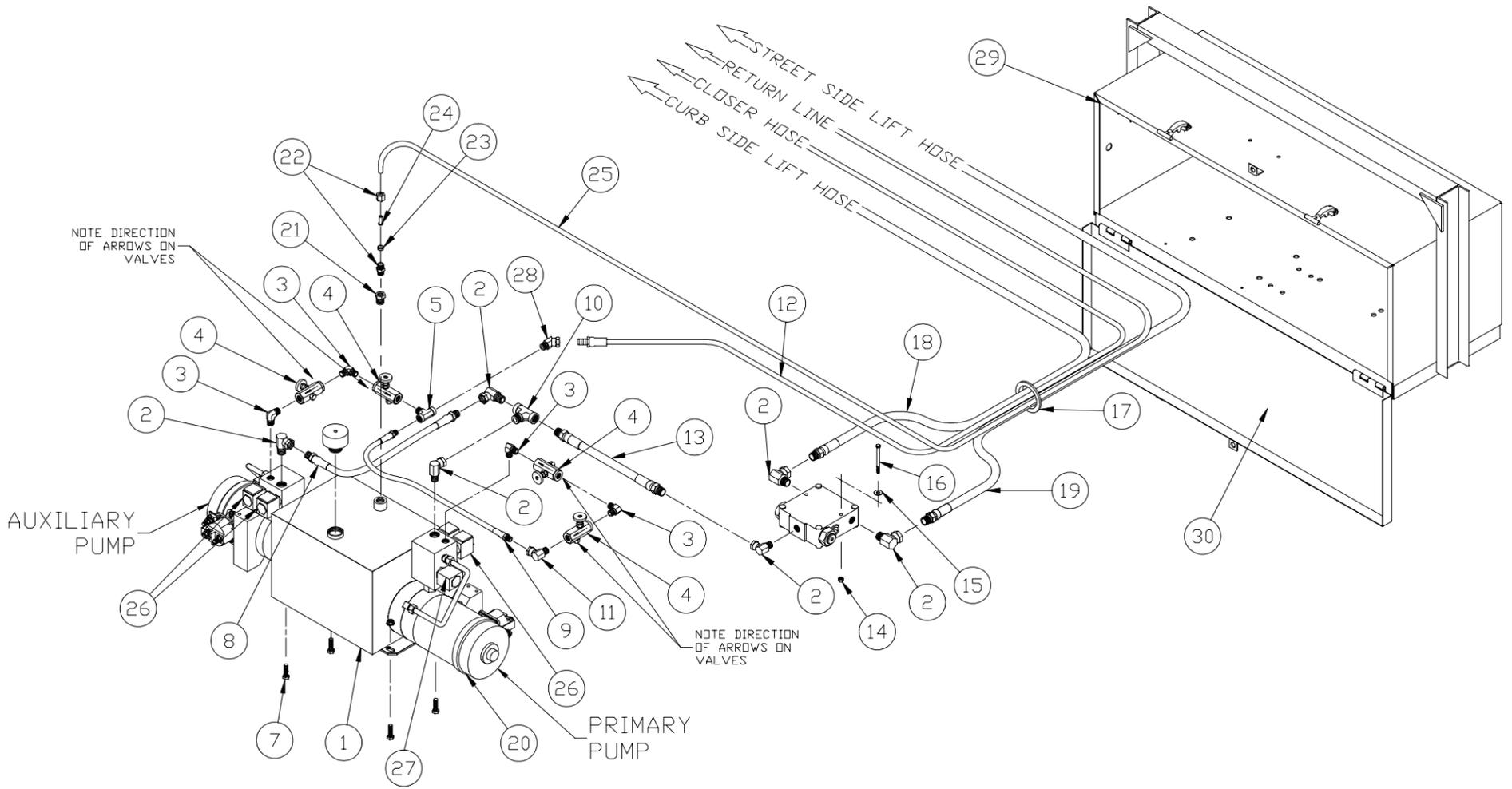
REVISED: 12/1/03  
 E.O. 5221  
 REV. 08

**PM-480**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70400975	1	Hydraulic Pump Unit
2	75083036	9	3/8" NPT 90° Swivel Elbow
3	75083055	3	3/8" x 3/8" NPT x 3/8" NPT x 22" Lg. Hose Assembly
4	70401150	1	Hand Pump w/ Handle
5	85803810	1	Flow Divider Valve
6	75082859	1	3/8" NPT Female Tee (Male on Side)
7	75083067	1	3/8" x 3/8" NPT x 3/8" NPT x 30" Lg. Hose Assembly
8	70189846	2	3/8" NPT Check Valve
9	75082613	2	3/8" NPT Male Nipple
10	75082860	1	3/8" NPT Female Tee
11	75082611	2	1/4" NPT Male Elbow
12	70189860	2	Adjustable Flow Control Valve
13	75083031	1	1/4" NPT 90° Swivel Elbow
14	75082858	1	1/4" NPT Female Tee (Male on Side)
15	75082614	1	1/4" NPT Male Nipple
16	75082908	1	3/8" NPT Male x 1/4" NPT Female Bushing
17	75085161	2	1/4"-20 Hex Nut
18	75088051	2	1/4" Flat Washer
19	75086012	2	1/4"-20 x 2-1/2" Hex Head Screw
20	75083076	1	1/4" x 1/4" NPT x 1/4" NPT x 76" Lg. Hose Assembly (Truck Kit Only)
	75083077	1	1/4" x 1/4" NPT x 1/4" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
21	75083069	1	3/8" x 3/8" NPT x 3/8" NPT x 65" Lg. Hose Assembly (Truck Kit Only)
	75083078	2	3/8" x 3/8" NPT x 3/8" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
22	75083079	1	3/8" x 3/8" NPT x 3/8" NPT x 135" Lg. Hose Assembly (Truck Kit Only)
23	85803439	1	2-1/8" I.D. Rubber Grommet
24	70400854	1	Motor/Solenoid Assembly
25	82021039	1	1/4" O.D. x 14 ft. Nylon Tubing (for Trucks)
	82021039	1	1/4" O.D. x 36 ft. Nylon Tubing (for Trailers)
26	75082878	1	1/4" NPT x 1/4" Compression Adapter
27	75082874	1	Brass Insert (Compression Fittings)

ITEM	PART NUMBER	QTY	DESCRIPTION
28	75082873	1	Delrin Sleeve
29	75082908	1	3/8" NPT Male x 1/4" NPT Female Bushing
30	70092501	1	Valve Assembly 3-Way/ 2-Position Solenoid Coil Valve
31	70092517	2	Valve Assembly w/ Manual Over-Ride 2-Way/ 2-Position Solenoid Coil Valve
32	85803901	1	Hydraulic Enclosure Assembly Complete
33	85803910	1	Hydraulic Enclosure Door (with Hinges)

# DUAL PUMP HYDRAULIC LAYOUT



**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**WDL RM SERIES**

REVISED: 12/1/03  
 E.O. 5221  
 REV. 07

**PM-479**

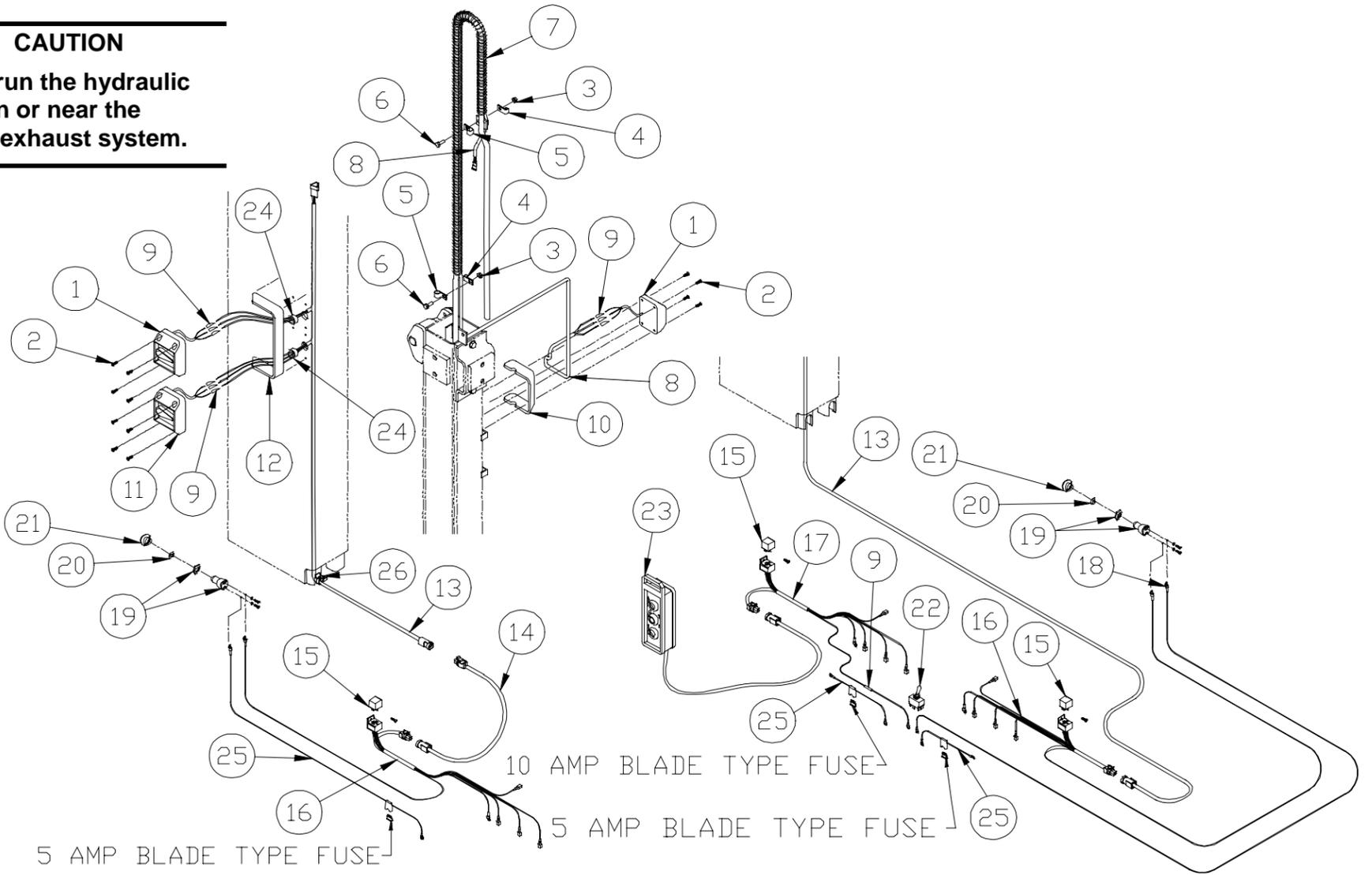
ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401000	1	Dual Pump Hydraulic Unit
2	75083036	6	3/8" NPT 90° Swivel Elbow
3	75082611	4	1/4" NPT 90° Male Elbow
4	70189860	4	Adjustable Flow Control Valve
5	75082858	1	1/4" NPT Female Tee (Male on Side)
6	85803810	1	Flow Divider Valve
7	75086055	4	3/8"-16 x 3/4" Hex Head Bolt
8	75083054	1	3/8" x 3/8" NPT x 3/8" NPT x 14" Lg. Hose Assembly
9	75083066	1	1/4" x 1/4" NPT x 1/4" NPT x 19" Lg. Hose Assembly
10	75082859	1	3/8" NPT Female Tee (Male on Side)
11	75083031	1	1/4" NPT 90° Swivel Elbow
12	75083076	1	1/4" x 1/4" NPT x 1/4" NPT x 76" Lg. Hose Assembly (Truck Kit Only)
	75083077	1	1/4" x 1/4" NPT x 1/4" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
13	75083055	1	3/8" x 3/8" NPT x 3/8" NPT x 22" Lg. Hose Assembly
14	75085161	2	1/4"-20 Hex Lock Nut
15	75088051	2	1/4" Flat Washer
16	75086012	2	1/4"-20 x 2-1/2" Hex Head Screw
17	85803439	1	2-1/8" I.D. Rubber Grommet
18	75083069	1	3/8" x 3/8" NPT x 3/8" NPT x 65" Lg. Hose Assembly (Truck Kit Only)
	75083078	2	3/8" x 3/8" NPT x 3/8" NPT x 372" Lg. Hose Assembly (Trailer Kit Only)
19	75083079	1	3/8" x 3/8" NPT x 3/8" NPT x 135" Lg. Hose Assembly (Truck Kit Only)
20	70400854	2	Motor/Solenoid Assembly
21	75082908	1	3/8" NPT Male x 1/4" NPT Female Bushing
22	75082878	1	1/4" NPT Male x 1/4" Compression Adapter
23	75082873	1	Delrin Sleeve (For Compression Fittings)
24	75082874	1	Brass Insert (For Compression Fittings)
25	82021039	1	1/4" O.D. x 14 ft. Nylon Tubing (for Trucks)
	82021039	1	1/4" O.D. x 36 ft. Nylon Tubing (for Trailers)

ITEM	PART NUMBER	QTY	DESCRIPTION
26	70092503	4	Valve Assembly 2-Way/ 2-Position Solenoid Coil Valve
27	70092501	2	Valve Assembly 3-Way/ 2-Position Solenoid Coil Valve
28	75083016	1	1/4" NPT 45° Swivel Elbow
29	85803901	1	Hydraulic Enclosure Assembly Complete
30	85803910	1	Hydraulic Enclosure Door (with Hinges)

# ELECTRICAL LAYOUT

**CAUTION**

Do not run the hydraulic hoses in or near the vehicle exhaust system.



SINGLE PUMP

DUAL PUMP

**WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES**

REVISED: 05-12-2000  
E.O. 4154  
REV. 07

**PM-481**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	10099300	2	Raise/Lower SuperSwitch™
2	75086860	12	#8-32 x 3/4" Lg. Self Tapping Screw
3	75085161	2	1/4"-20 Nylon Locknut
4	75082880	2	Hose Clamp Insulated 5/16" I.D.
5	75083044	2	Hose Clamp Insulated 1/2" I.D.
6	75086062	2	1/4"-20 x 3/4" Lg. Hex Bolt (Grade 5)
7	31493501	1	Spring Guard
8	31493402	1	Cable Inside Control
9	75082033	9	16 Ga. Butt Connector (Ten (10) used on Dual Pump Option)
10	31436101	1	Inside Control Switch Guard
11	10099301	1	Open/Close SuperSwitch™
12	31423101	1	Outside Control Switch Guard
13	31491902	1	Control Wiring Harness
14	31494601	1	Control Harness Extension (Trailer Kit Only)
15	85803921	1	Relay 12 Volt/30 Amp
16	31491802	1	Motor Wiring Harness w/ Relay Socket & Fuse Holder (Primary Pump)
17	31491801	1	Motor Wiring Harness w/ Relay Socket & Fuse Holder (Auxiliary Pump)
18	75082032	1	16 Ga. #10 Hole Ring Connector (Dual Pump Option Only)
19	75089782	1	Key Switch (Located in side of Enclosure)
20	75000030	1	"O" Ring
21	75089769	1	Rubber Key Switch Cap
22	75089804	1	Selector Switch (Dual Pump Option Only)
23	85803946	1	Auxiliary Push Button Switch Box (Dual Pump Option Only)
24	31492101	2	Plastic Grommet
25	31491701	1	Key Switch Control Wire (Two (2) used on Dual Pump Option)
26	75083041	1	Hose Clamp, 7/32" to 5/8" Dia.

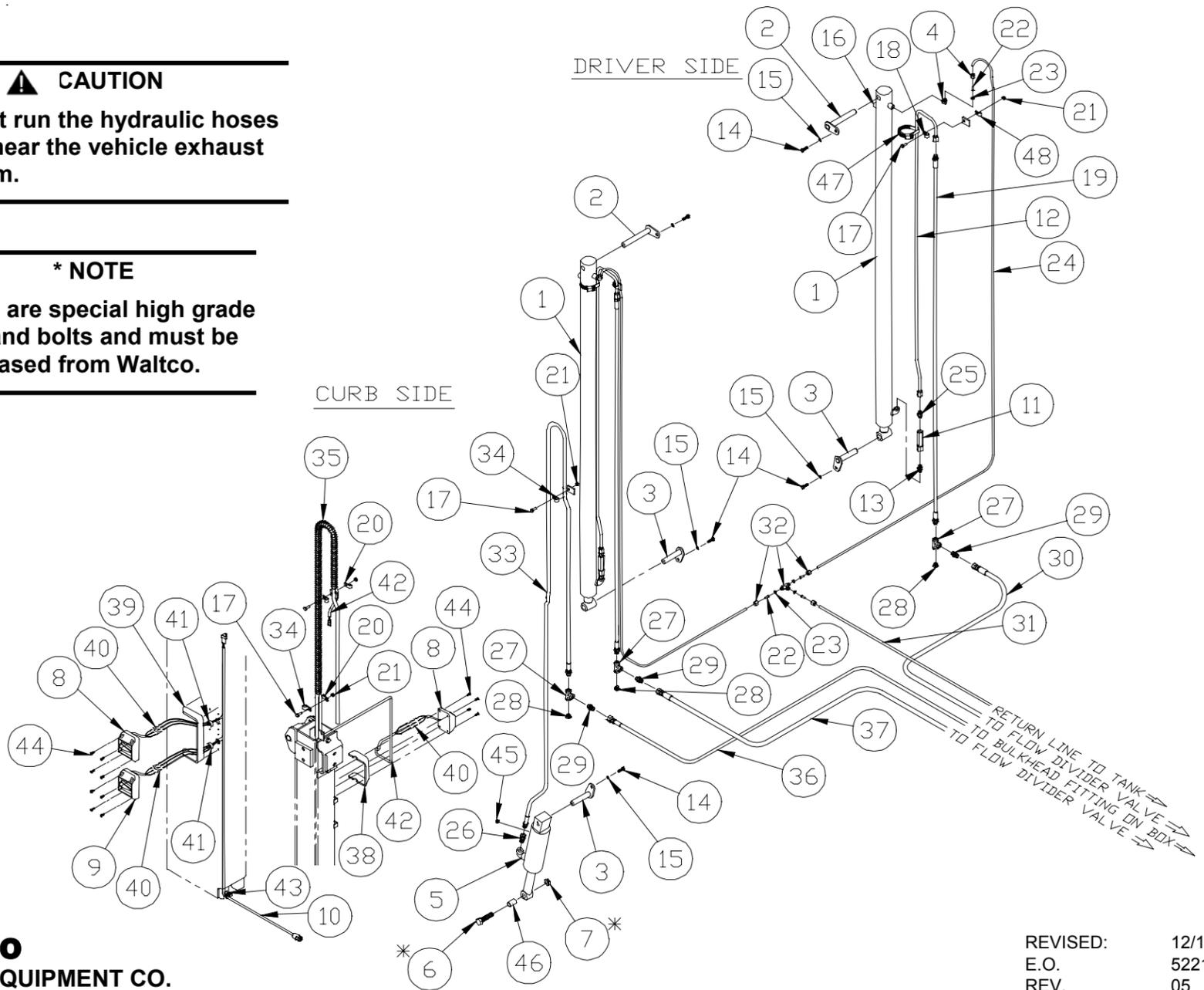
# LIFTGATE HYDRAULIC AND ELECTRICAL LAYOUT

## CAUTION

Do not run the hydraulic hoses in or near the vehicle exhaust system.

## \* NOTE

These are special high grade nuts and bolts and must be purchased from Waltco.



**WALTCO**  
TRUCK EQUIPMENT CO.  
WDL RM SERIES

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

**PM-532**

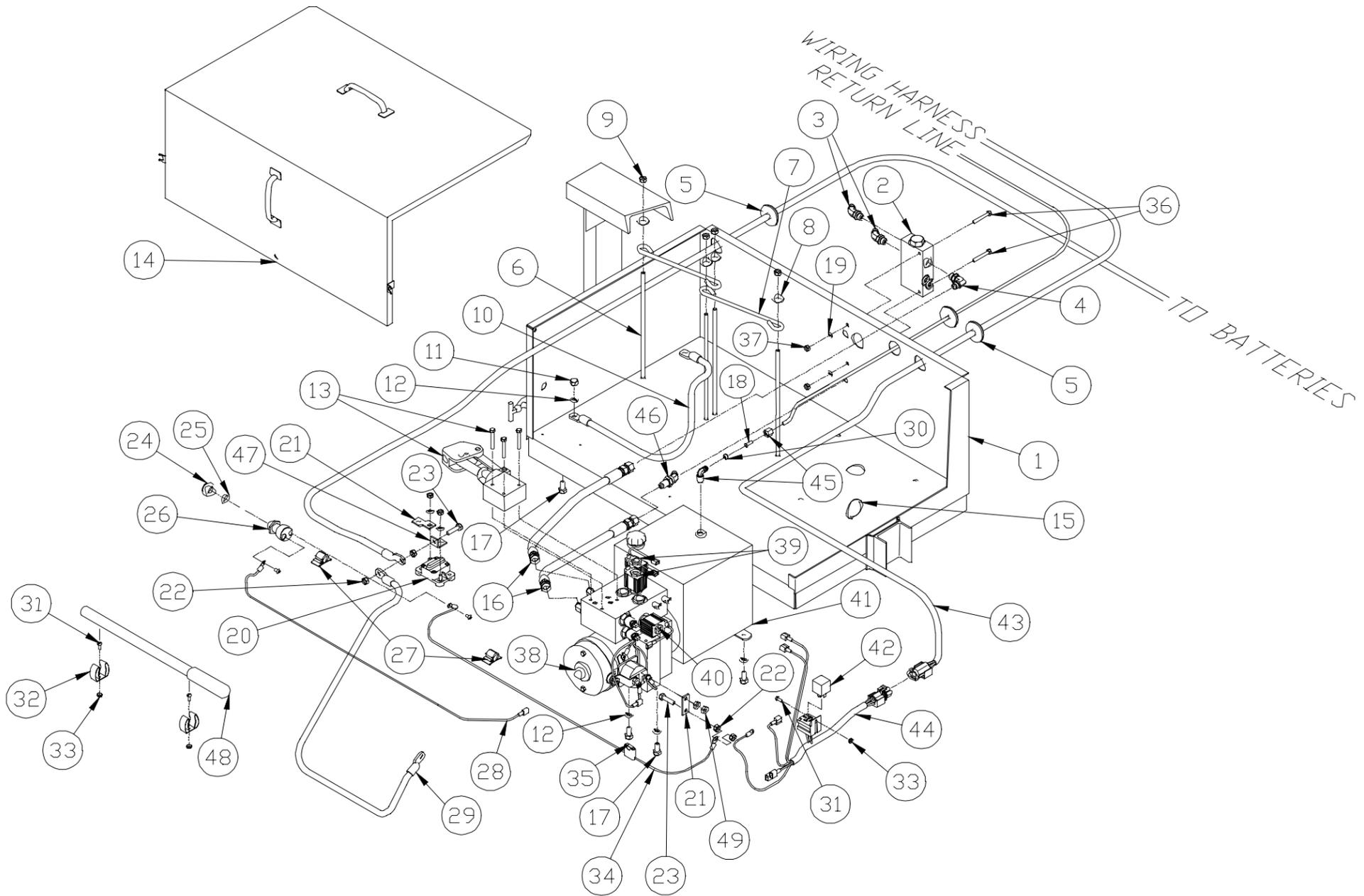
ITEM	PART NUMBER	QTY	DESCRIPTION
1	32680051 <sup>A</sup>	2	Lift Cylinder
2	31470501 <sup>A</sup>	2	Upper Lift Cylinder Pin
3	31471501 <sup>AB</sup>	3	Cylinder Pin
4	75082877	2	1/4" NPT x 1/4" Compression 90° Elbow
5	32480012 <sup>B</sup>	1	Closer Cylinder
*6	85803362 <sup>B</sup>	1	Lower Closer Cylinder Bolt (Special 5/8"-18UNF x 2-1/2" Lg. Grade 8)
*7	75085183 <sup>B</sup>	1	5/8"-18 Lock Nut (Grade 8)
8	10099300	2	Raise/Lower SuperSwitch™
9	10099301	1	Open/Close SuperSwitch™
10	31491902	1	Control Wiring Harness
11	85803806	2	Pressure Compensated Flow Control Valve
12	31493301	2	Fluid Line Assembly
13	75082614	2	1/4" NPT x 1/4" NPT Male Pipe Nipple
14	75086055 <sup>AB</sup>	9	3/8"-16 x 3/4" Hex Head Screw
15	75088081 <sup>AB</sup>	5	3/8" Lock Washer
16	31493601	2	Bleeder Screw w/ Seal Washer
17	75086062	4	1/4"-20 x 3/4" Lg. Hex Bolt (Grade 5)
18	75082881	2	Hose Clamp Insulated 3/8" I.D.
19	75083105	2	9/16"-18 "O" Ring Male x 9/16"-18 37° Flare x 1/4" I.D. Tube x 88-7/8" Lg. Hose Assembly
20	75082880	2	Hose Clamp Insulated 5/16" I.D.
21	75085161	4	1/4"-20 Hex Locknut
22	75082874 <sup>A</sup>	5	Brass Insert (For Compression Fittings)
23	75082873 <sup>A</sup>	5	Delrin Sleeve (For Compression Fittings)
24	31493101 <sup>A</sup>	2	1/4" O.D. x 192" Lg. Nylon Tubing
25	85803804	2	1/4" NPT x 1/4" Tube Adapter
26	75082871	1	1/4"-18 NPT Male x 9/16" 37° Flare Female Swivel Adapter
27	75082862	3	9/16"-18 UNF SAE Straight Thread Female Tee
28	75082865	6	9/16"-18 "O" Ring Male Plug
29	75082882	3	9/16"-18 "O" Ring Male x 9/16"-18 37° Flare Male Adapter
30	75083099	1	9/16"-18 37° Flare Female x 9/16"-18 37° Flare Female x 3/8" I.D. x 135" Lg. Hose Assembly (Truck Kit only)
31	82021039	1	1/4" OD x 14 ft. Nylon Tubing (for Trucks)
	82021039	1	1/4" OD x 36 ft. Nylon Tubing (for Trailers)
32	75082876	1	1/4" Compression Tee

ITEM	PART NUMBER	QTY	DESCRIPTION
33	75083107	1	9/16"-18 37° Flare Male x 9/16"-18 "O" Ring Male x 170" Lg. Hose Assembly
34	75083044	2	Hose Clamp Insulated 1/2" I.D.
35	31493501	1	Spring Guard
36	75083103	1	9/16"-18 37° Flare Female x 9/16"-18 37° Flare Female x 1/4" I.D. x 76" Lg. Hose Assembly (Truck Kit only)
	75083104	1	9/16"-18 37° Flare Female x 9/16"-18 37° Flare Female x 1/4" I.D. x 372" Lg. Hose Assembly (Trailer Kit Only)
37	75083101	1	9/16"-18 37° Flare Female x 9/16"-18 37° Flare Female x 3/8" I.D. x 65" Lg. Hose Assembly (Truck Kit only)
	75083102	2	9/16"-18 37° Flare Female x 9/16"-18 37° Flare Female x 3/8" I.D. x 372" Lg. Hose Assembly (Trailer Kit only)
38	31436101	1	Inside Control Switch Guard
39	31423101	1	Outside Control Switch Guard
40	75082033	9	16 Ga. Butt Connector
41	31492101	2	Plastic Grommet
42	31493402	1	Cable Inside Control
43	75083041	1	Hose Clamp, 7/32" to 5/8" Dia.
44	75086860	12	#8-32 x 3/4" Lg. Self Tapping Screw
45	75089315	1	Breather
46	32481712	1	3/4" O.D. x 5/8" I.D. x 1-1/4" Lg. Bearing
47	85803469	2	3" Dia. Hose Clamp
48	75082879	2	Hose Clamp Insulated 1/4" I.D.

<sup>A</sup> Included in Lift Cylinder Replacement Kit 80000942.

<sup>B</sup> Included in Lift Cylinder Replacement Kit 80000944.

# SINGLE PUMP AND SINGLE PUMP W/ HAND PUMP HYDRAULIC AND ELECTRICAL LAYOUT



WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES

REVISED: 3-15-02  
E.O. 4704  
REV. 06

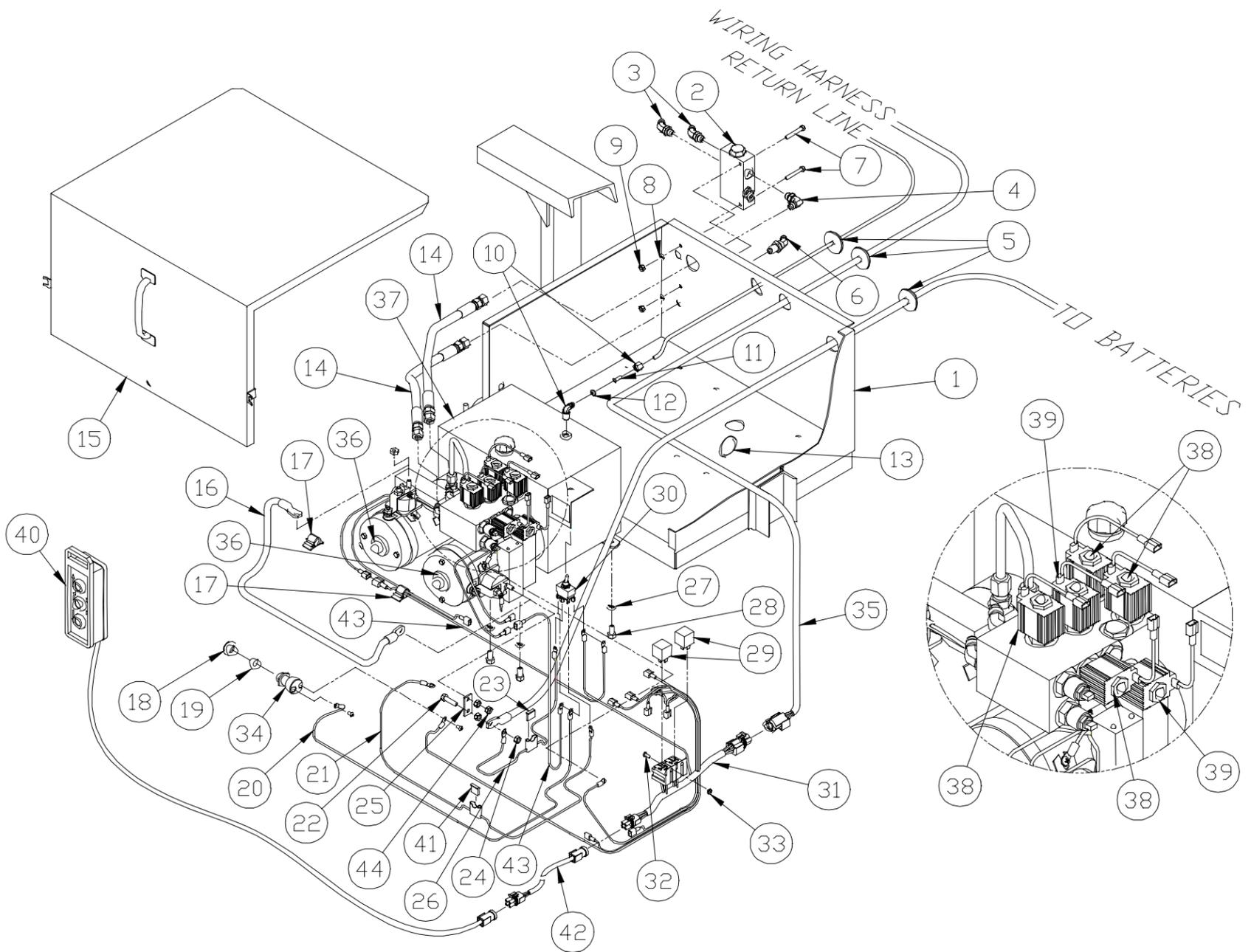
PM-534

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31590001	1	Hydraulic Enclosure Assy (Direct Power Only)
	31690001	1	Hydraulic Enclosure Assy (Aux. Batteries Only)
2	70401675	1	Flow Divider Valve
3	75082866	2	45° Elbow, 9/16"-18 "O" Ring x 9/16"-18 37° Flare
4	75082869	1	90° Elbow, 9/16"-18 "O" Ring x 9/16"-18 37° Flare
5	75089343	3	Grommet, Split Rubber
6	10291804	2	Bar, Battery Retainer (Aux. Batteries Only)
7	10291403	2	Bar, Battery Retainer (Aux. Batteries Only)
8	75088053	4	Flat Washer, 3/8" (Aux. Batteries Only)
9	75085177	4	Nylon Locknut, 5/16"-18 (Aux. Batteries Only)
10	10195518	1	Battery Cable Assy, 18" (Aux. Batteries Only)
11	75085005	1	Hex Nut, 3/8"-16, Serrated
12	75088081	5	Lock Washer, 3/8"
13	70401650	1	Hand Pump Kit (Hand Pump Option Only)
14	31591001	1	Hydraulic Enclosure Cover (Direct Power Only)
	31691001	1	Hydraulic Enclosure Cover (Aux. Batteries Only)
15	75089572	1	Plastic Plug, 1-3/8" Hole
16	75083094	2	Hose Assy, 3/8" ID x 18-1/2" x 9/16"-18 37° Flare Fem.
17	75086055	5	Hex Bolt, 3/8"-16 x 3/4", Grade 5
18	75082874	1	Brass Insert (For Compression Adapter)
19	75088051	2	Flat Washer, 1/4"
20	75089243 <sup>A</sup>	1	Circuit Breaker, 150 Amp
21	10099500	2	Terminal Strip
22	75085003	4	Hex Nut, 5/16"-18, Serrated
23	75086217	2	Hex Bolt, 5/16"-18 x 1-1/4" lg.

ITEM	PART NUMBER	QTY	DESCRIPTION
24	75089769	1	Key Switch Cap
25	75000030	1	"O" Ring
26	75089782	1	Key Switch
27	75080062	3	Wire Clip
28	31491401	1	Wire, Key Switch Control
29	10195536	1	Battery Cable Assy, 36"
30	75082873	1	Delrin Sleeve (For Compression Adapter)
31	75086707	5	Screw, #10-32 x 5/8" lg.
32	85803482	2	Holder, Spring Clip (Hand Pump Option Only)
33	75085000	5	Hex Nut, #10-32, Serrated
34	31491201	1	Wire, Key Switch Control
35	75089853	1	Fuse, 5 Amp
36	75086011	2	Hex Bolt, 1/4"-20 x 2" lg.
37	75085161	2	Nylon Locknut, 1/4"-20
38	70400854	1	Motor/Solenoid Assy
39	70092503	2	Valve Assembly 2-Way/ 2-Position Solenoid Coil Valve
40	70092501	1	Valve Assembly 3-Way/ 2-Position Solenoid Coil Valve
41	70401500	1	Hydraulic Pump Unit – Single Pump
42	85803921	1	Relay
43	31491902	1	Liftgate Wiring Harness
	31494601	1	Trailer Extension Harness (Trailer Kits Only)
44	31491803	1	Motor Wiring Harness
45	75082877	1	Elbow, 90°, 1/4" NPT x 1/4" Compression
46	75082867	1	45° Bulkhead Elbow, 9/16"-18 37° Flare Male
47	10099501	1	Terminal Strip (90° formed)
48	70401651	1	Hand Pump Handle (included with Item 13)
49	75085093	1	Hex jam nut, 5/16"-18.

<sup>A</sup> Included in Circuit Breaker Replacement Kit 80000912.

# DUAL PUMP HYDRAULIC AND ELECTRICAL LAYOUT



WALTCO  
TRUCK EQUIPMENT CO.  
WDL RM SERIES

REVISED: 03-15-02  
E.O. 4704  
REV. 05

PM-535

ITEM	PART NUMBER	QTY	DESCRIPTION
1	31590001	1	Hydraulic Enclosure Assy
2	70401675	1	Flow Divider Valve
3	75082866	2	45° Elbow, 9/16"-18 "O" Ring x 9/16"-18 37° Flare
4	75082869	1	90° Elbow, 9/16"-18 "O" Ring x 9/16"-18 37° Flare
5	75089343	3	Grommet, Split Rubber
6	75082867	1	45° Bulkhead Elbow, 9/16"-18 37° Flare Male
7	75086011	2	Hex Bolt, 1/4"-20 x 2" lg.
8	75088051	2	Flat Washer, 1/4"
9	75085161	2	Nylon Locknut, 1/4"-20
10	75082877	1	Elbow, 90°, 1/4" NPT x 1/4" Compression
11	75082874	1	Brass Insert (For Compression Adapter)
12	75082873	1	Delrin Sleeve (For Compression Adapter)
13	75089572	1	Plastic Plug, 1-3/8" Hole
14	75083094	1	Hose Assy, 3/8" ID x 18-1/2" x 9/16"-18 37° Flare Fem.
15	31591001	1	Hydraulic Enclosure Cover (Direct Power Only)
16	10195536	1	Battery Cable Assy, 36"
17	75080062	2	Wire Clip
18	75089769	1	Key Switch Cap
19	75000030	1	"O" Ring
20	31491101	1	Wire, Key Switch Control
21	31491201	1	Wire, Key Switch Control
22	75086217	1	Hex Bolt, 5/16"-18 x 1-1/4" lg.
23	75089853	1	Fuse, 5 Amp
24	75085003	2	Hex Nut, 5/16"-18, Serrated
25	10099500	1	Terminal Strip
26	31491501	1	Wire, Key Switch Control
27	75088081	4	Lock Washer, 3/8"
28	75086055	5	Hex Bolt, 3/8"-16 x 3/4", Grade 5
29	85803921	1	Relay
30	75089804	1	Toggle Switch
31	31491601	1	Motor Wiring Harness

ITEM	PART NUMBER	QTY	DESCRIPTION
32	75086707	5	Screw, #10-32 x 5/8" lg.
33	75085000	5	Hex Nut, #10-32, Serrated
34	75089782	1	Key Switch
35	31491902	1	Liftgate Wiring Harness
	31494601	1	Trailer Extension Harness (Trailer Kits Only)
36	70400858	2	Motor/Solenoid Assy
37	70401525	1	Hydraulic Pump Unit - Dual Pump
38	70092503	4	Valve Assembly 2-Way/ 2-Position Solenoid Coil Valve
39	70092501	2	Valve Assembly 3-Way/ 2-Position Solenoid Coil Valve
40	85803975	1	Auxiliary Push Button Control
41	75089851	1	Fuse, 10 Amp
42	85803946	1	Auxiliary Control Extension Harness (Trailer Kits Only)
43	31492201	2	Wire, Control
44	75085093	1	Hex jam nut, 5/16"-18



# WALTCO NAVIGATOR™

## LIFTGATE PARTS AND MAINTENANCE GUIDE

### Schematics

Push Button Control  
 (Built thru 10/98)  
 Single Pump  
 Dual Pump

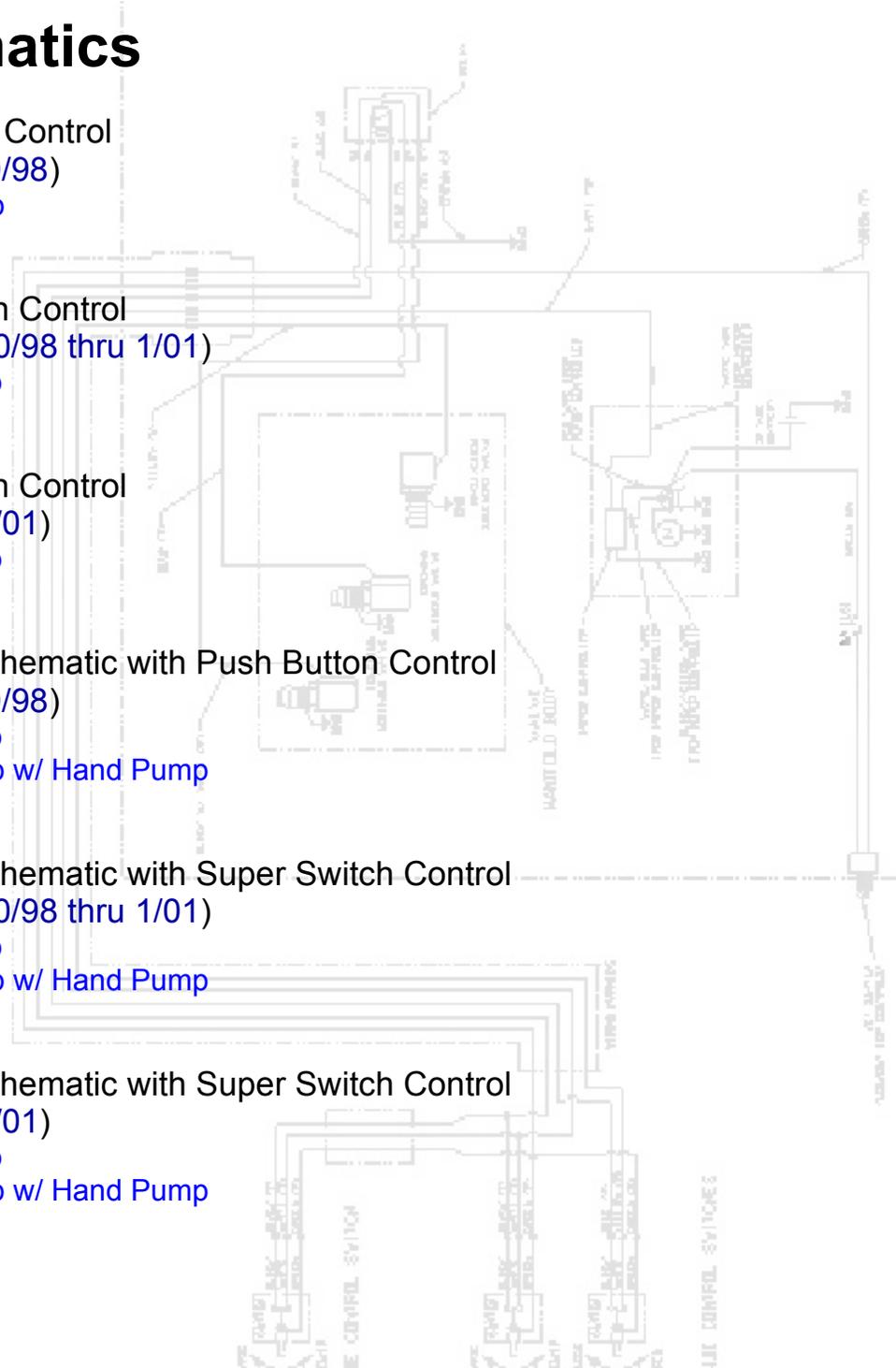
Super Switch Control  
 (Built from 10/98 thru 1/01)  
 Single Pump  
 Dual Pump

Super Switch Control  
 (Built from 1/01)  
 Single Pump  
 Dual Pump

Hydraulic Schematic with Push Button Control  
 (Built thru 10/98)  
 Single Pump  
 Single Pump w/ Hand Pump  
 Dual Pump

Hydraulic Schematic with Super Switch Control  
 (Built from 10/98 thru 1/01)  
 Single Pump  
 Single Pump w/ Hand Pump  
 Dual Pump

Hydraulic Schematic with Super Switch Control  
 (Built from 1/01)  
 Single Pump  
 Single Pump w/ Hand Pump  
 Dual Pump



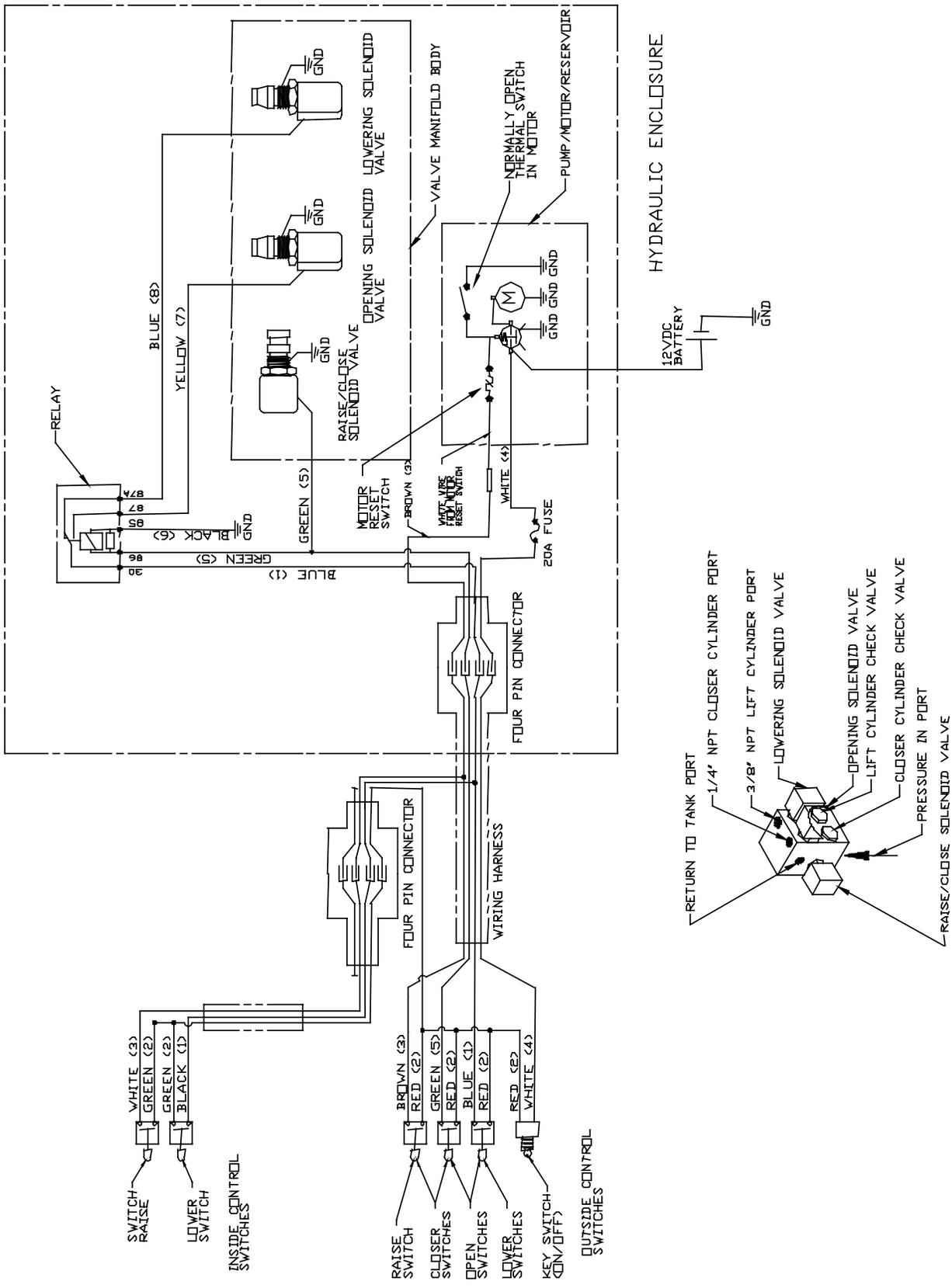
[Click here for a list of liftgate serial numbers, organized by approximate ship dates.](#)



**WDL/  
 WDLBG  
 and  
 WDL RM/  
 WDLBG RM**

# WDL SERIES ELECTRICAL SCHEMATIC w/ PUSH BUTTON CONTROL

Built thru 10/98  
SINGLE PUMP

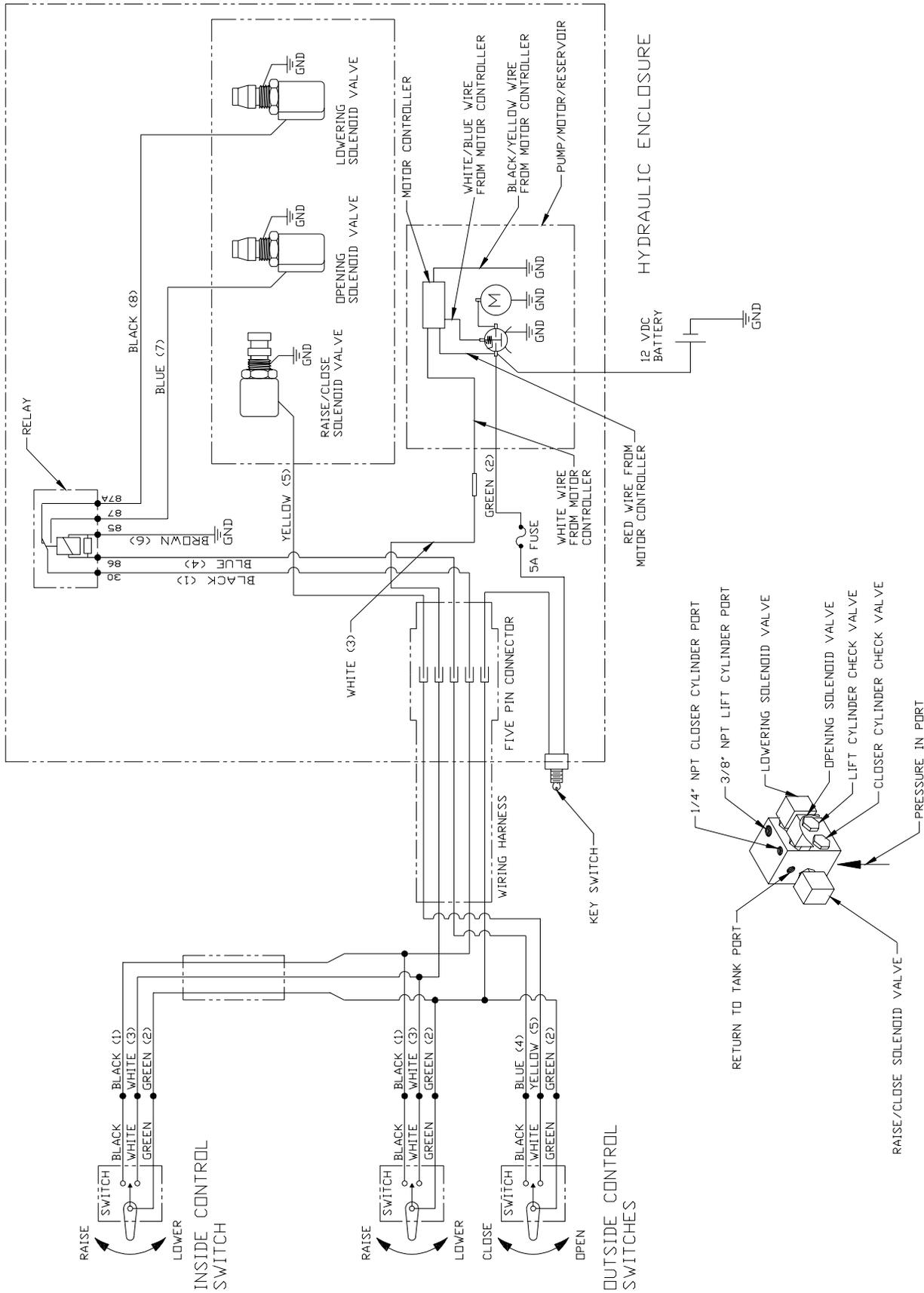




# WDL RM SERIES ELECTRICAL SCHEMATIC w/ SUPER SWITCH CONTROL

Built from 10/98 thru 1/01

## SINGLE PUMP



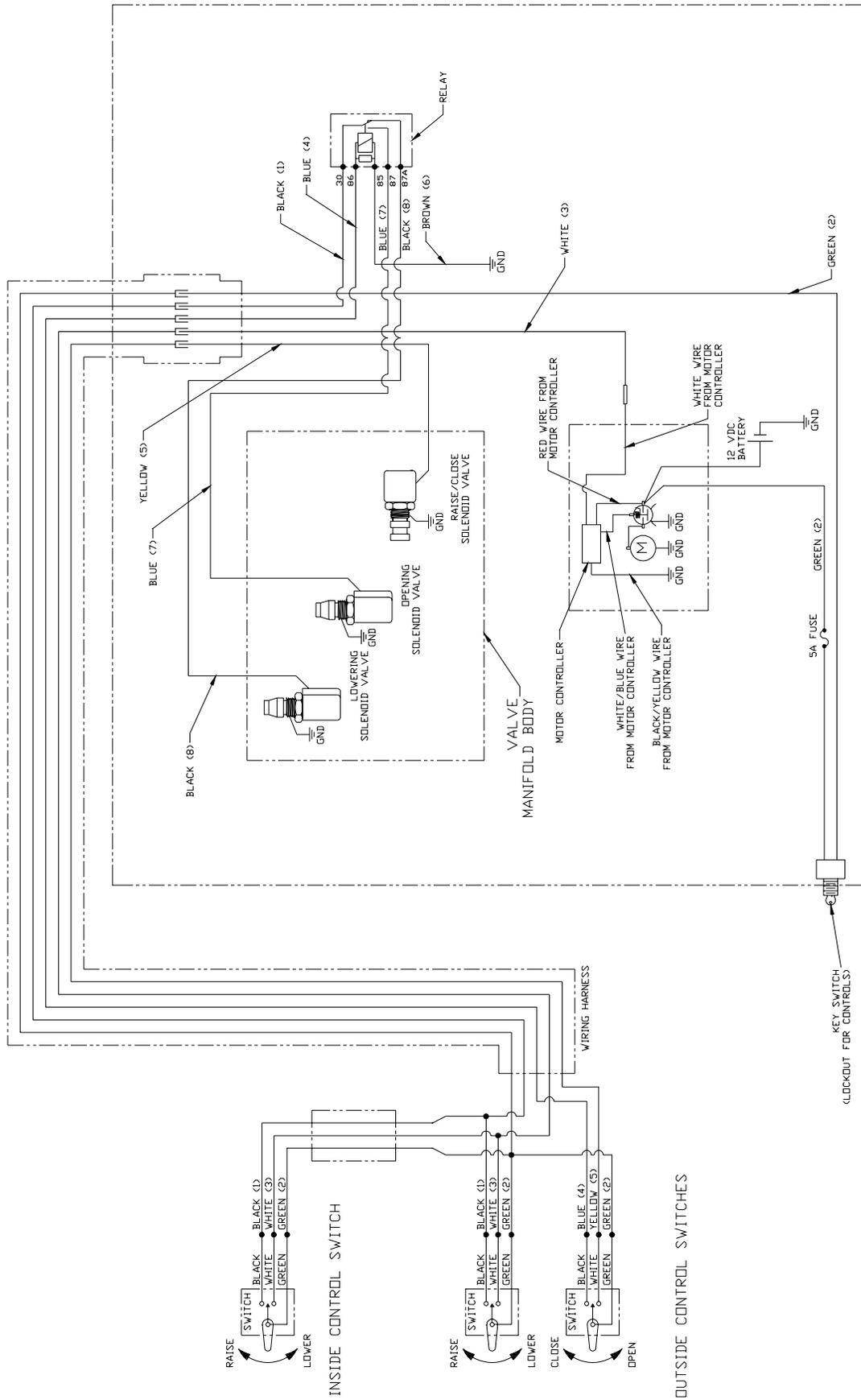
VALVE MANIFOLD BODY



# WDL RM SERIES ELECTRICAL SCHEMATIC w/ SUPER SWITCH CONTROL

## Built from 1/01

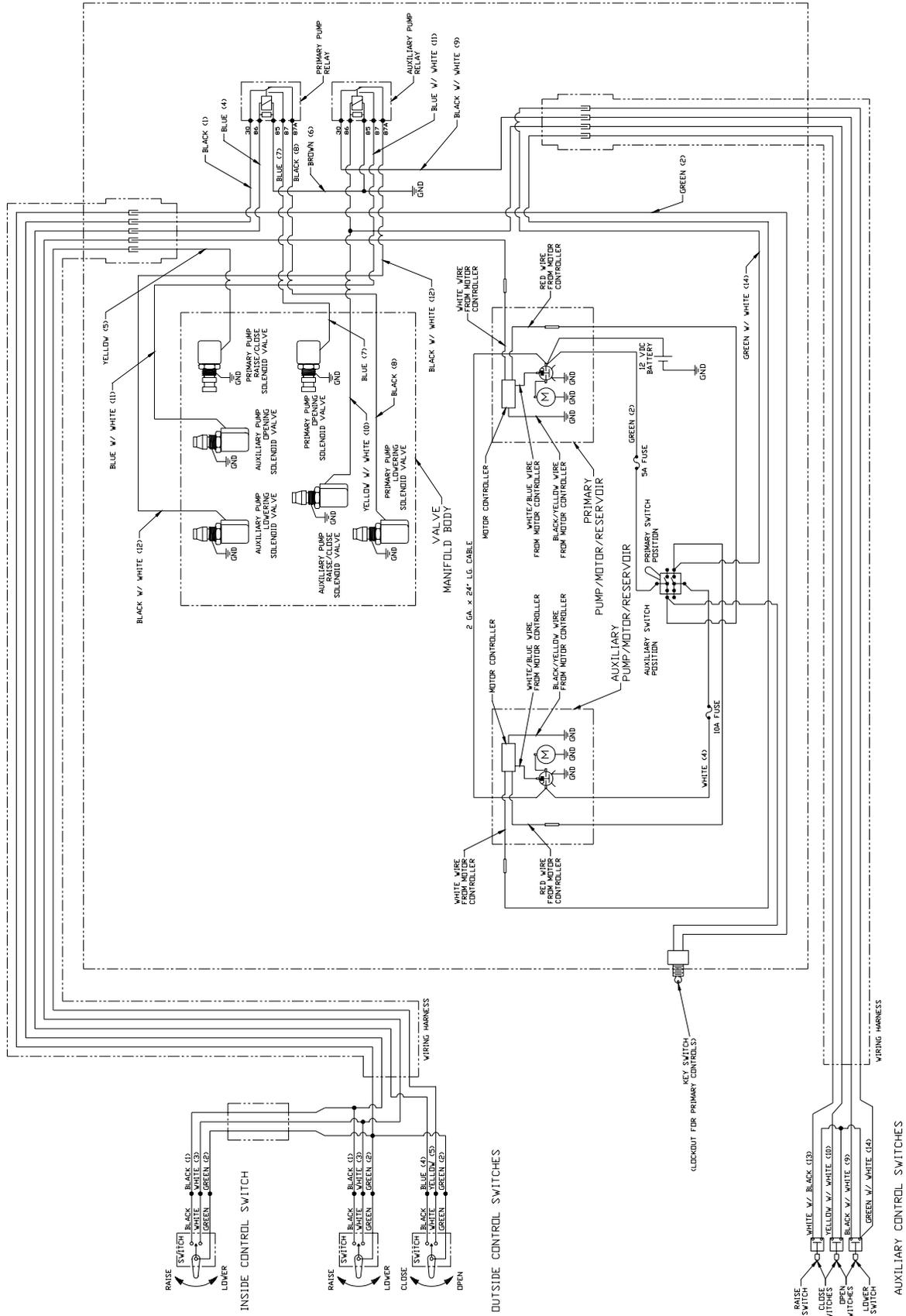
### SINGLE PUMP



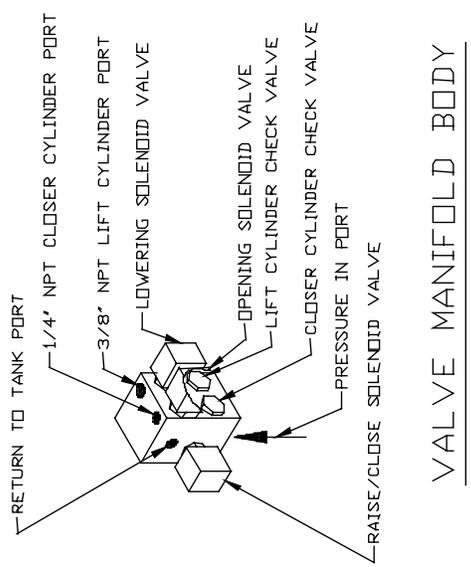
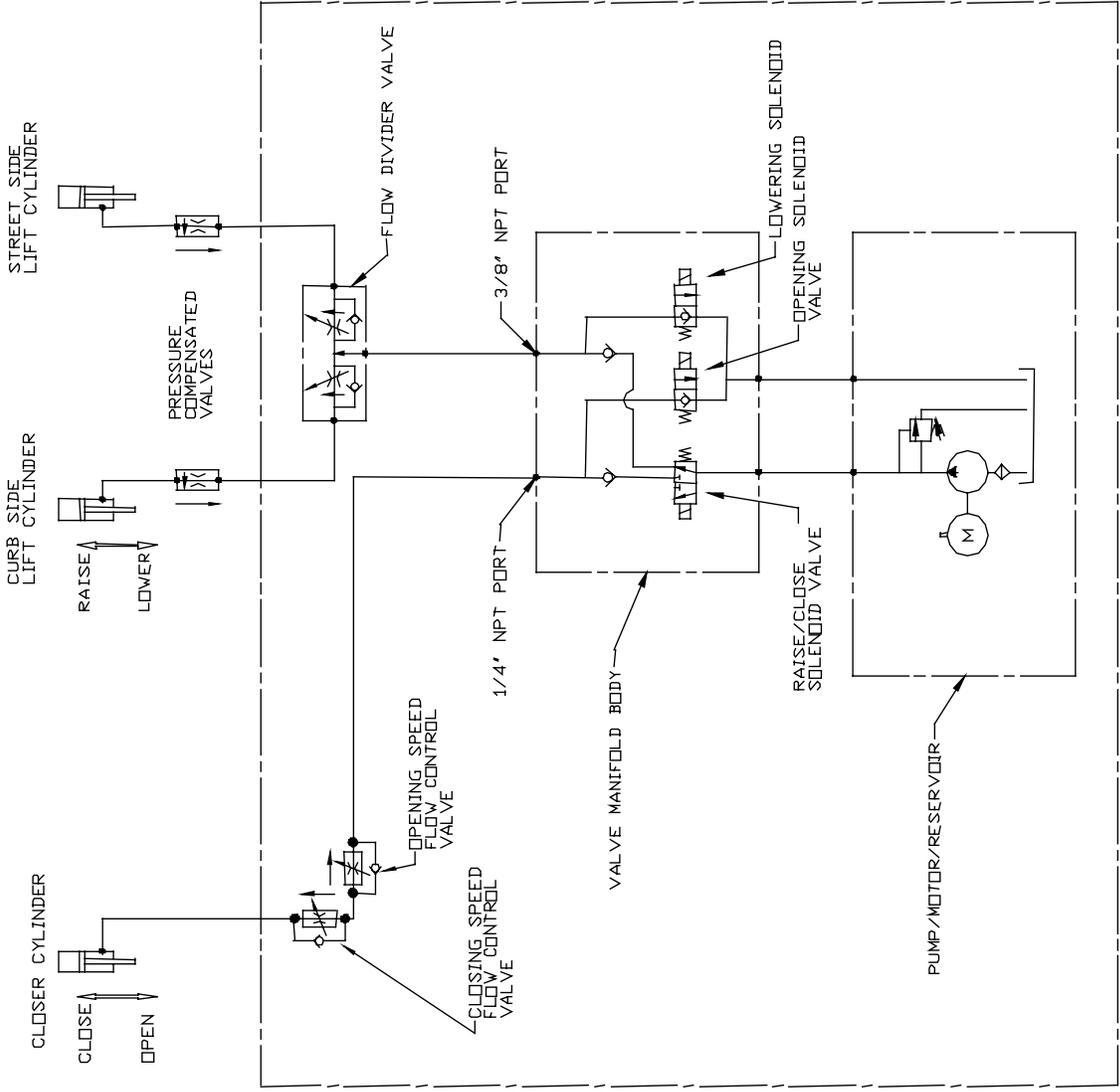
# WDL RM SERIES ELECTRICAL SCHEMATIC w/ SUPER SWITCH CONTROL

## Built from 1/01

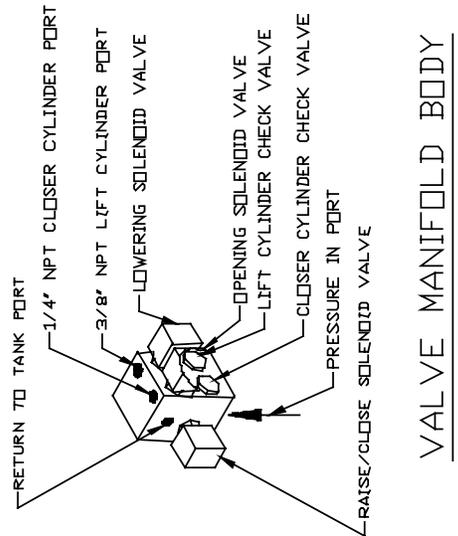
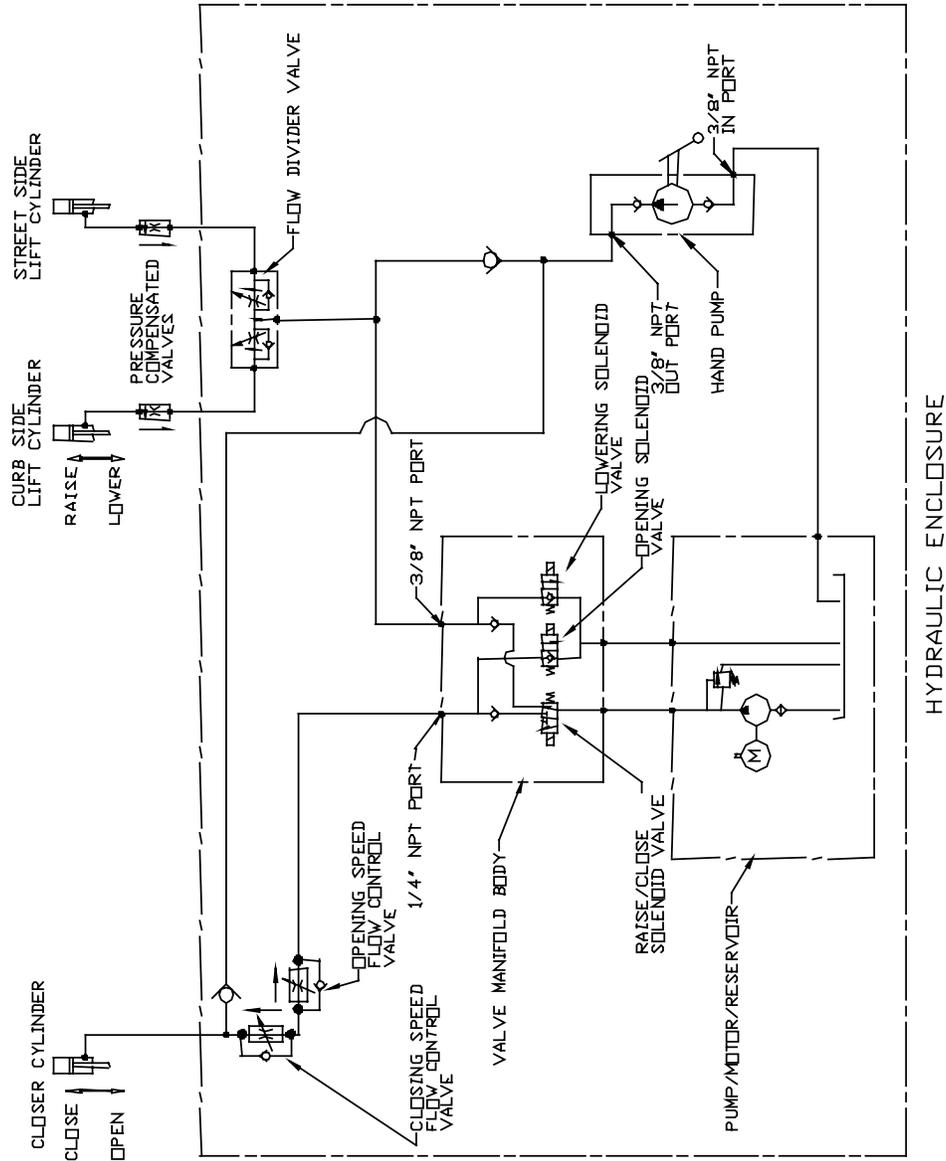
### DUAL PUMP



**WDL SERIES HYDRAULIC SCHEMATIC w/ PUSH BUTTON CONTROL**  
**Built thru 10/98**  
**SINGLE PUMP**

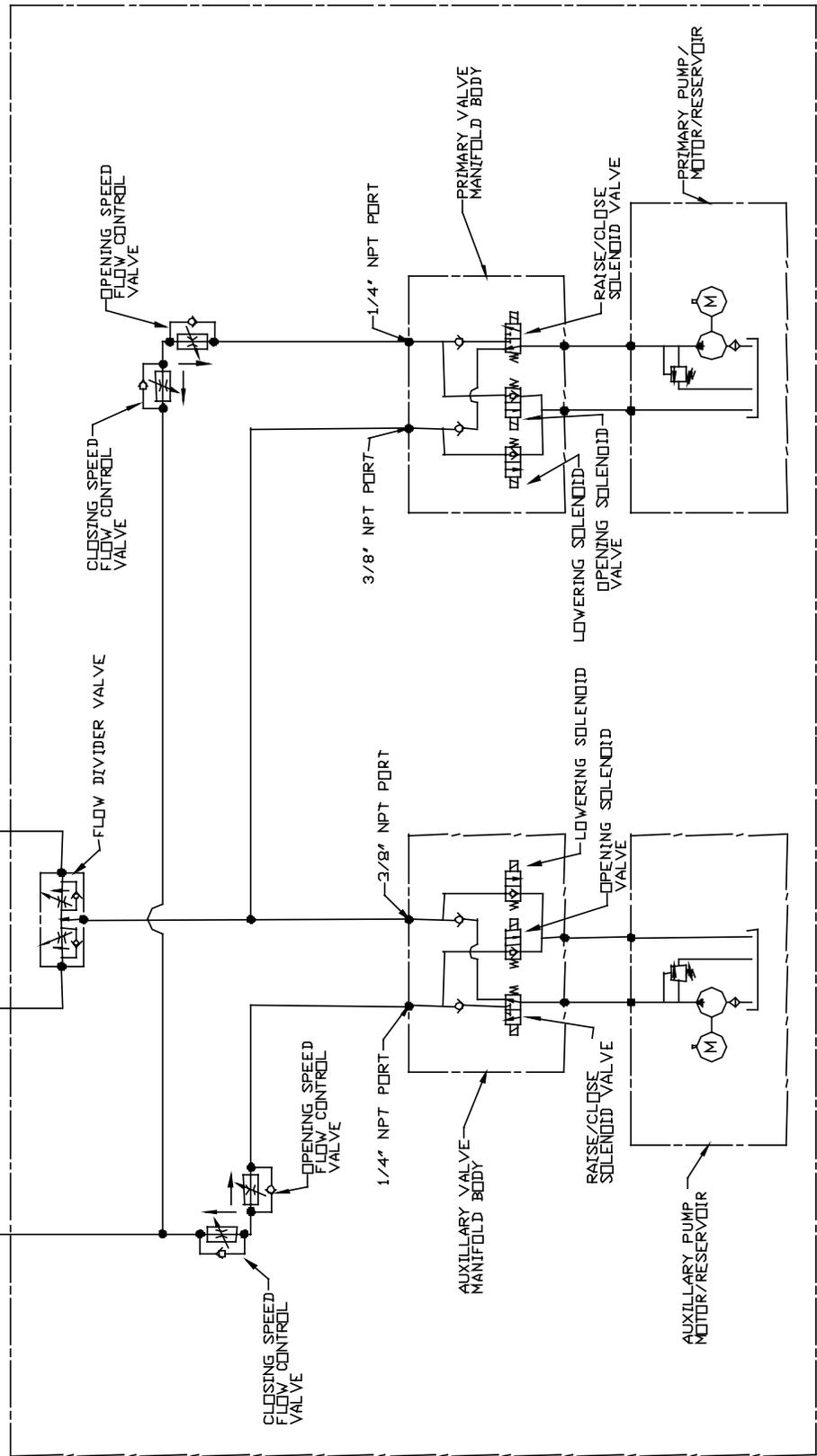
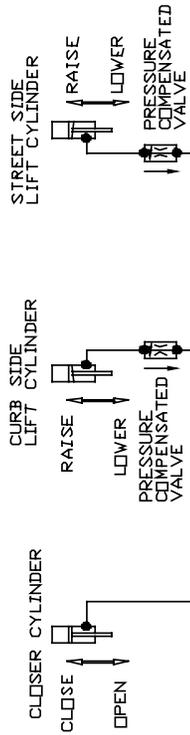
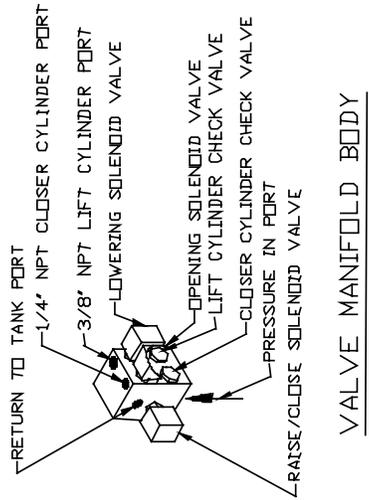


**WDL SERIES HYDRAULIC SCHEMATIC w/ PUSH BUTTON CONTROL**  
**Built thru 10/98**  
**SINGLE PUMP w/ HAND PUMP**



# WDL SERIES HYDRAULIC SCHEMATIC w/ PUSH BUTTON CONTROL

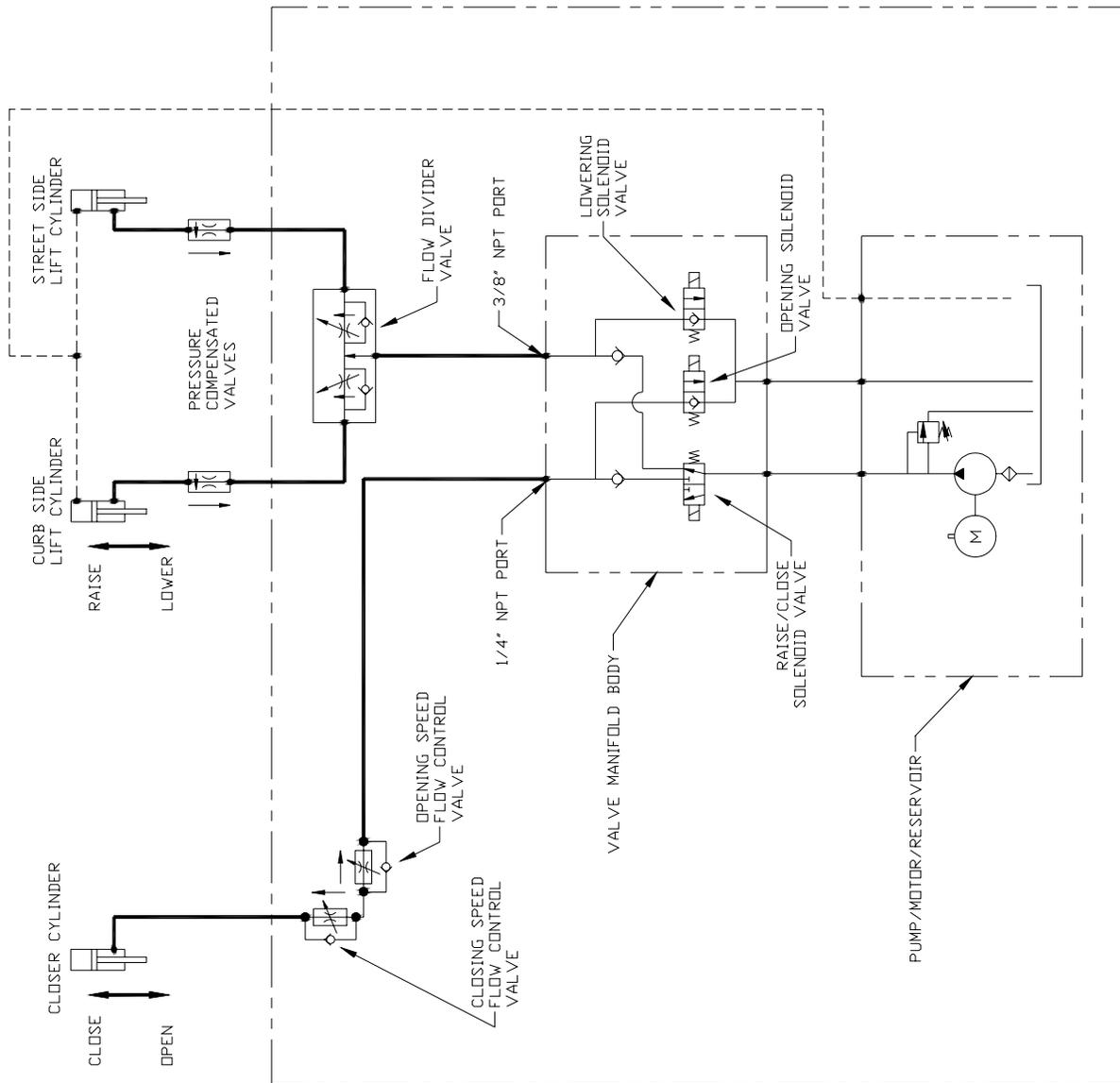
Built thru 10/98  
DUAL PUMP



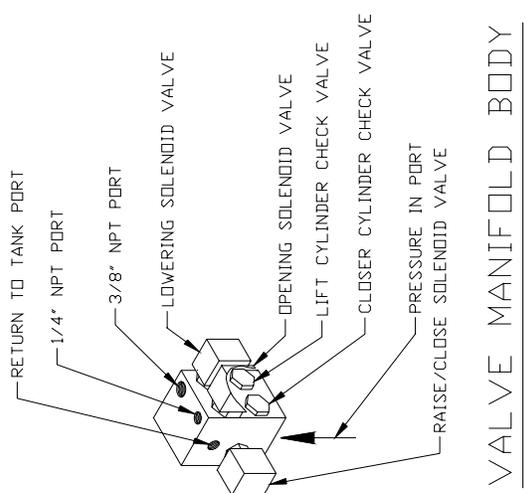
# WDL RM SERIES HYDRAULIC SCHEMATIC w/ SUPER SWITCH CONTROL

Built from 10/98 thru 1/01

## SINGLE PUMP



HYDRAULIC ENCLOSURE

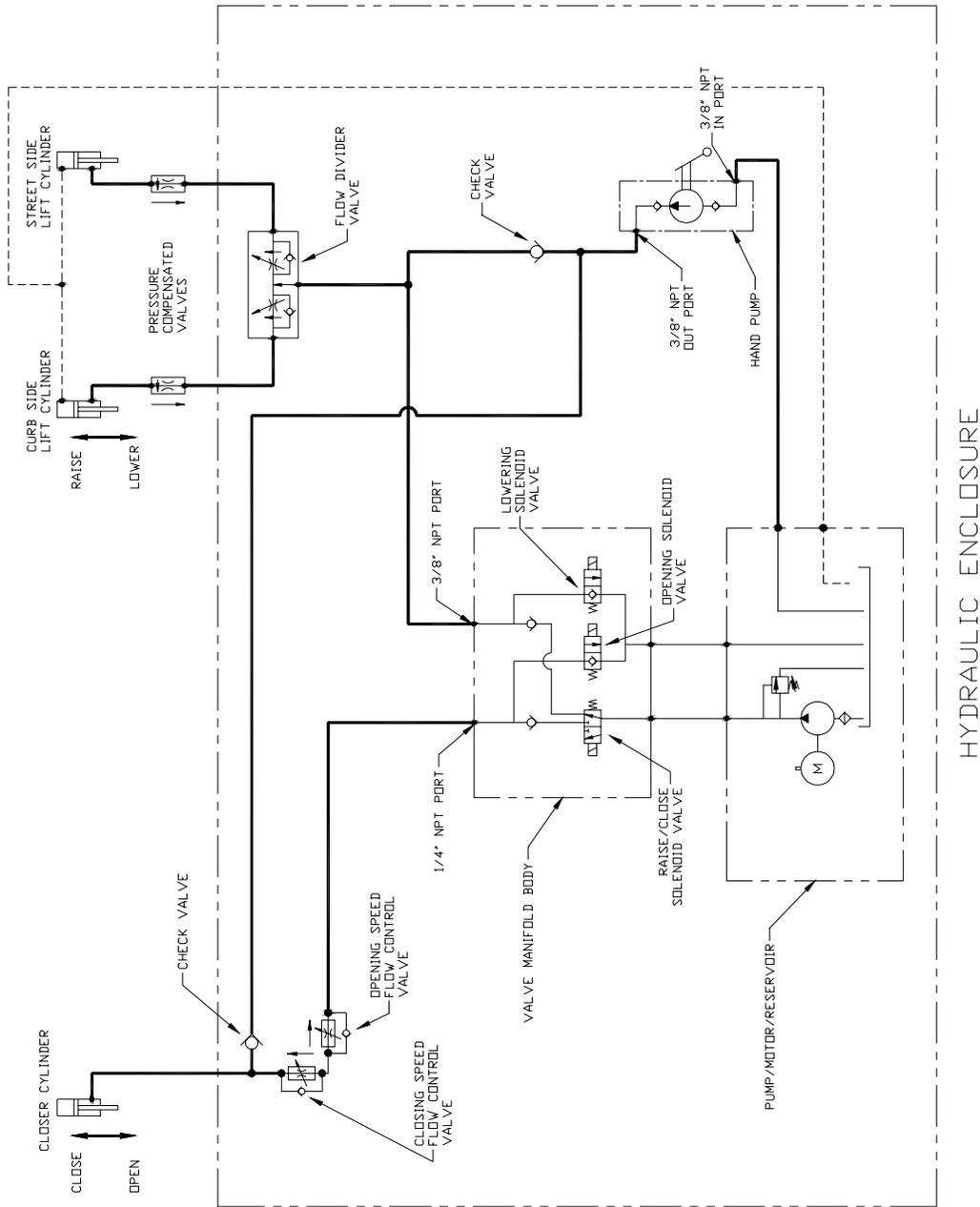


VALVE MANIFOLD BODY

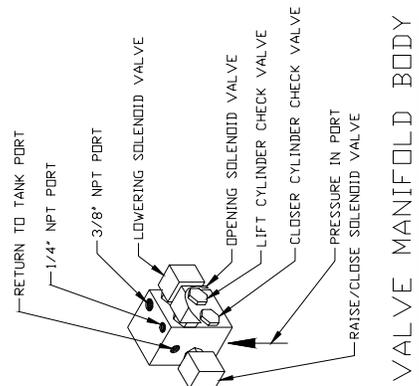
# WDL RM SERIES HYDRAULIC SCHEMATIC w/ SUPER SWITCH CONTROL

Built from 10/98 thru 1/01

## SINGLE PUMP w/ HAND PUMP



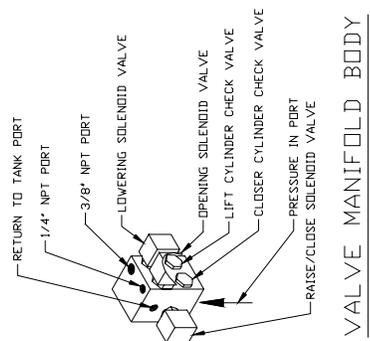
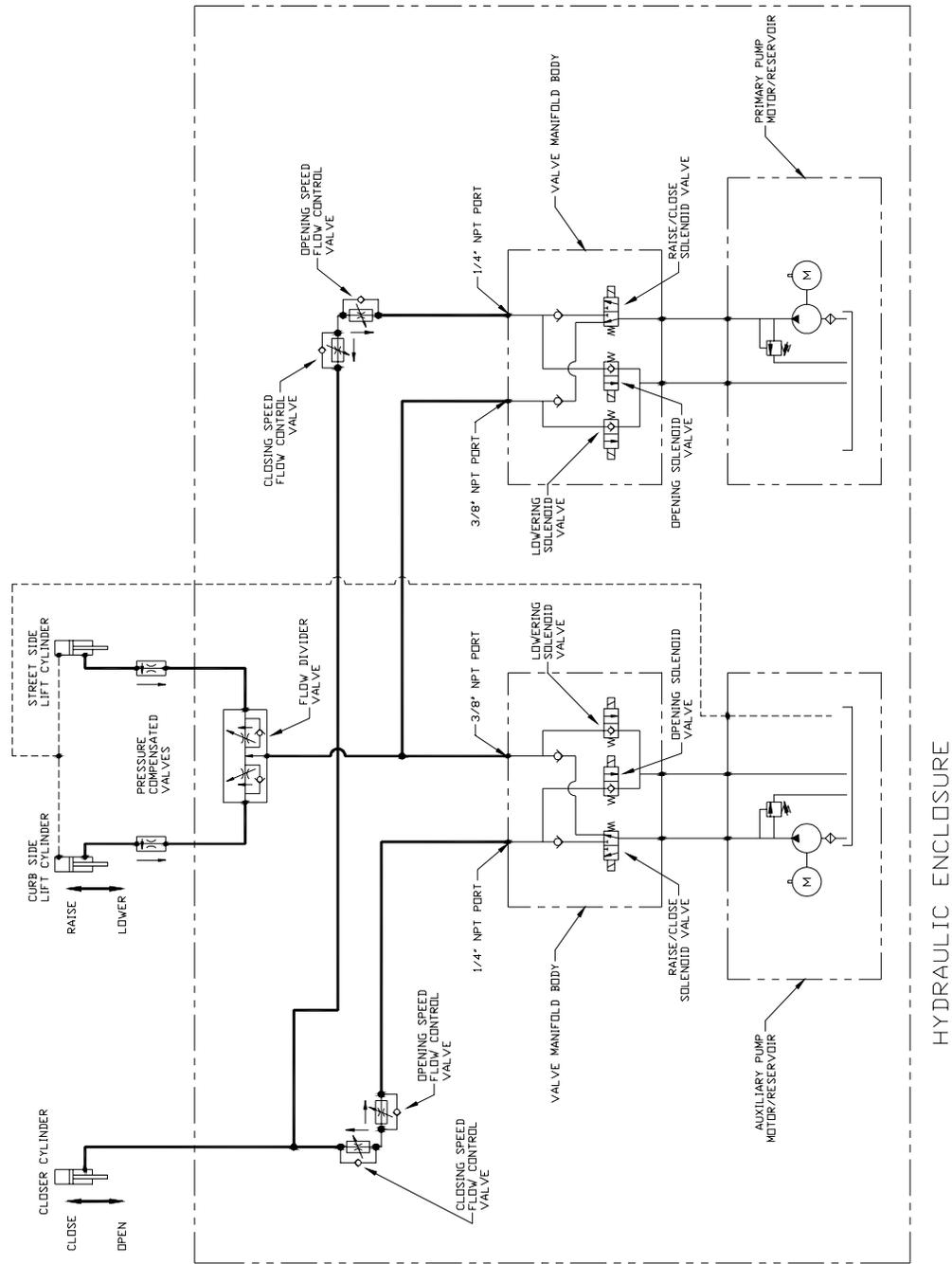
HYDRAULIC ENCLOSURE



# WDL RM SERIES HYDRAULIC SCHEMATIC w/ SUPER SWITCH CONTROL

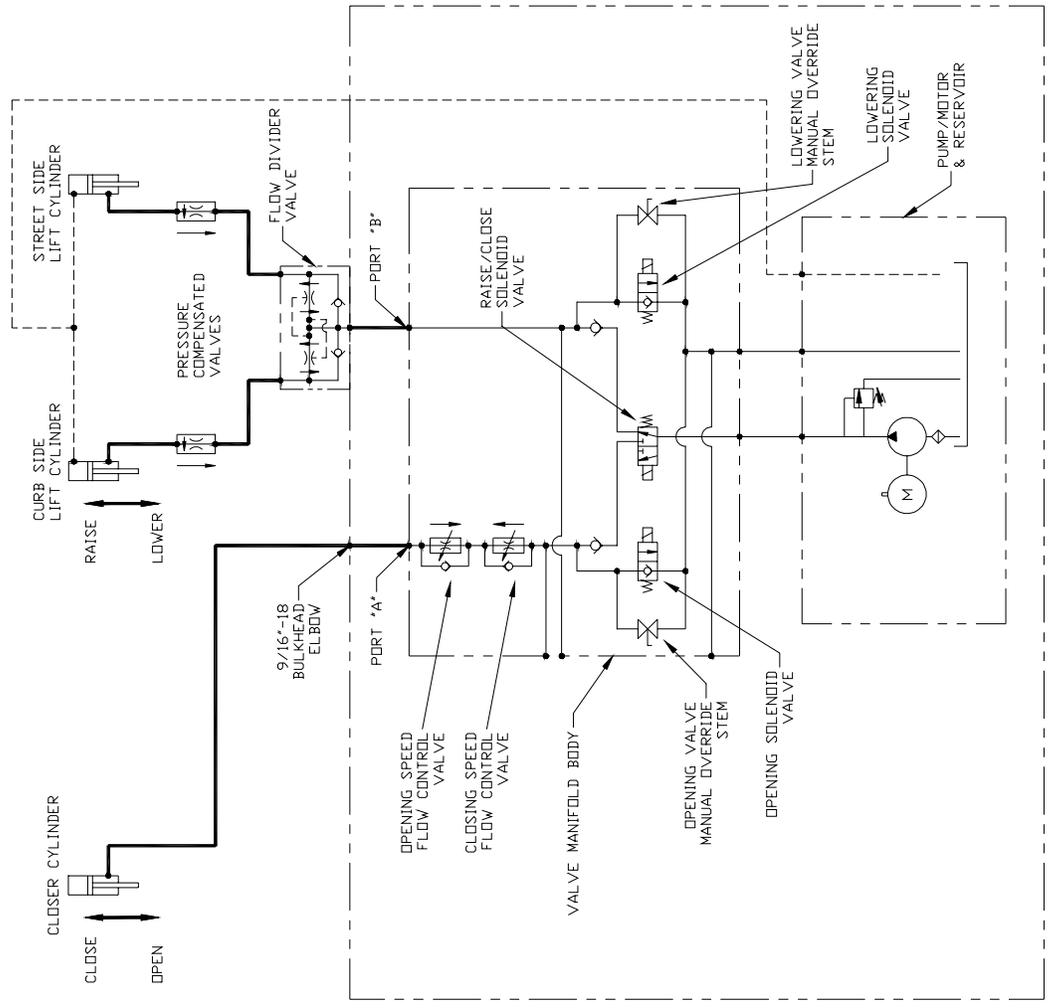
Built from 10/98 thru 1/01

## DUAL PUMP

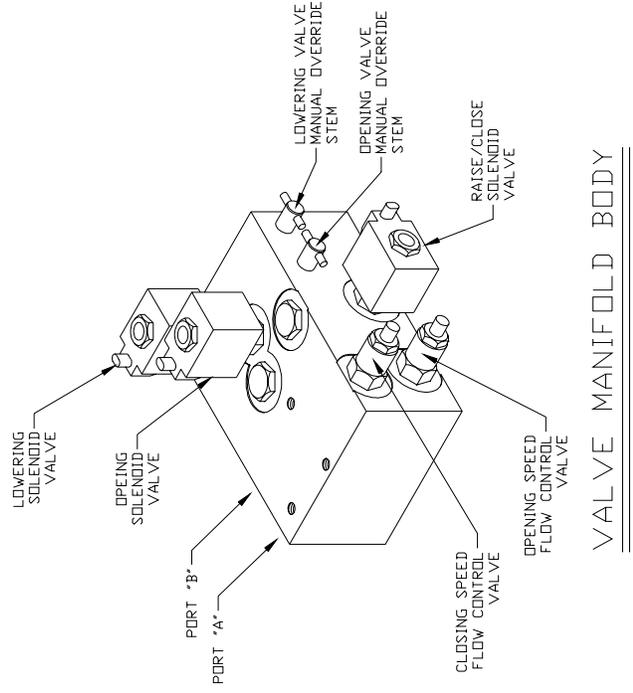


# WDL RM SERIES HYDRAULIC SCHEMATIC w/ SUPER SWITCH CONTROL

Built from 1/01  
SINGLE PUMP



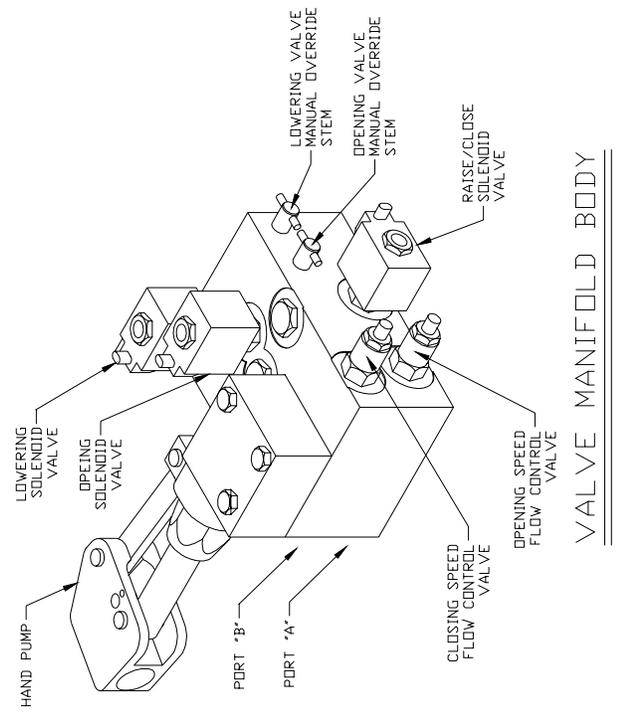
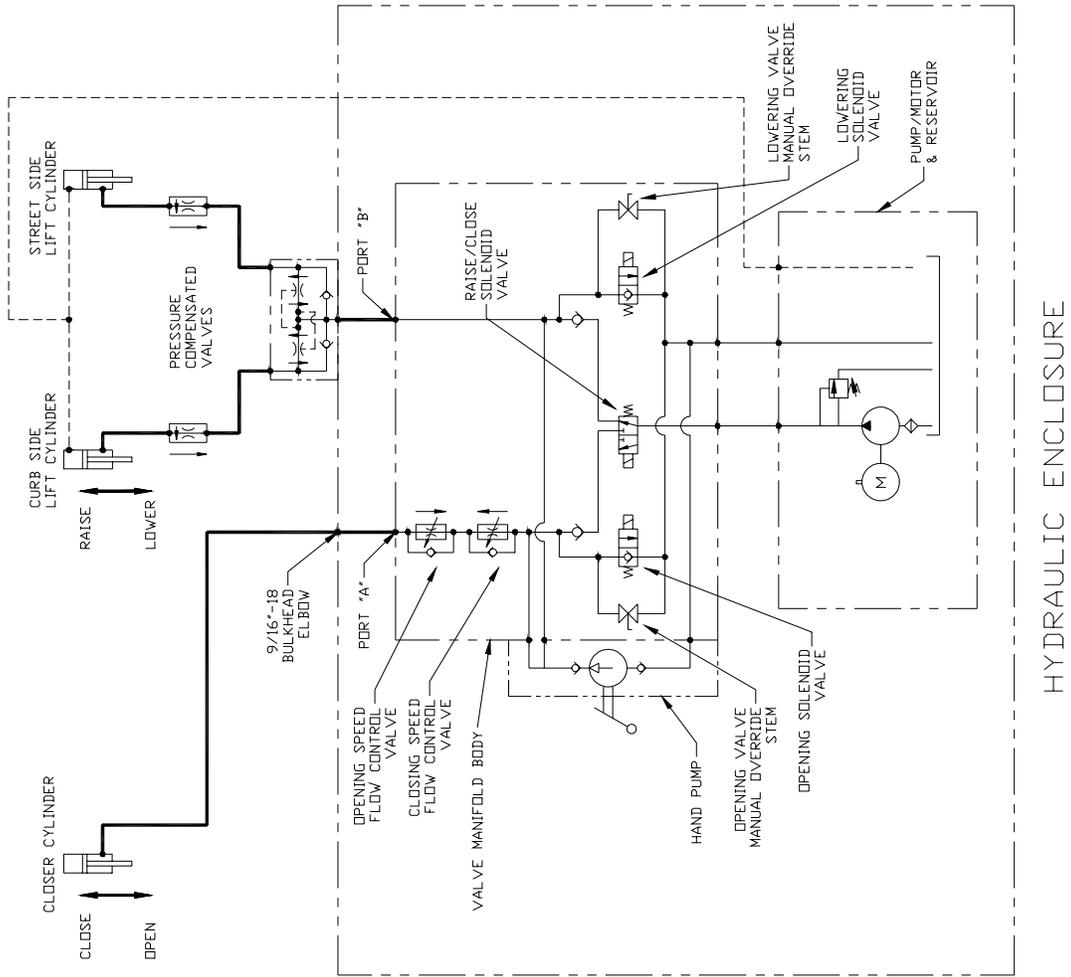
HYDRAULIC ENCLOSURE



VALVE MANIFOLD BODY

# WDL RM SERIES HYDRAULIC SCHEMATIC w/ SUPER SWITCH CONTROL

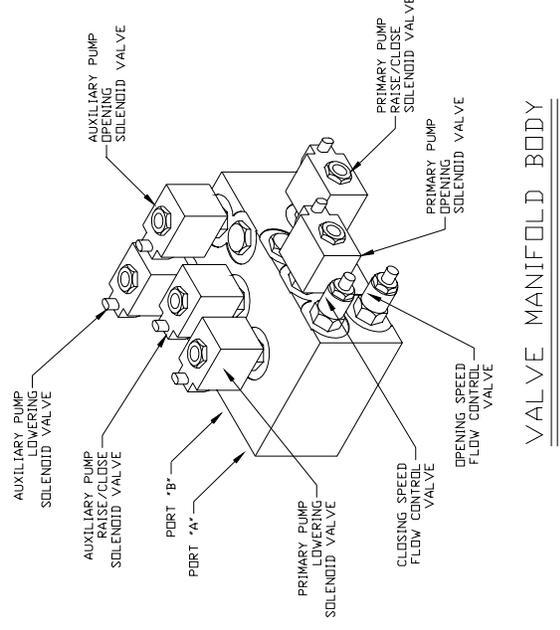
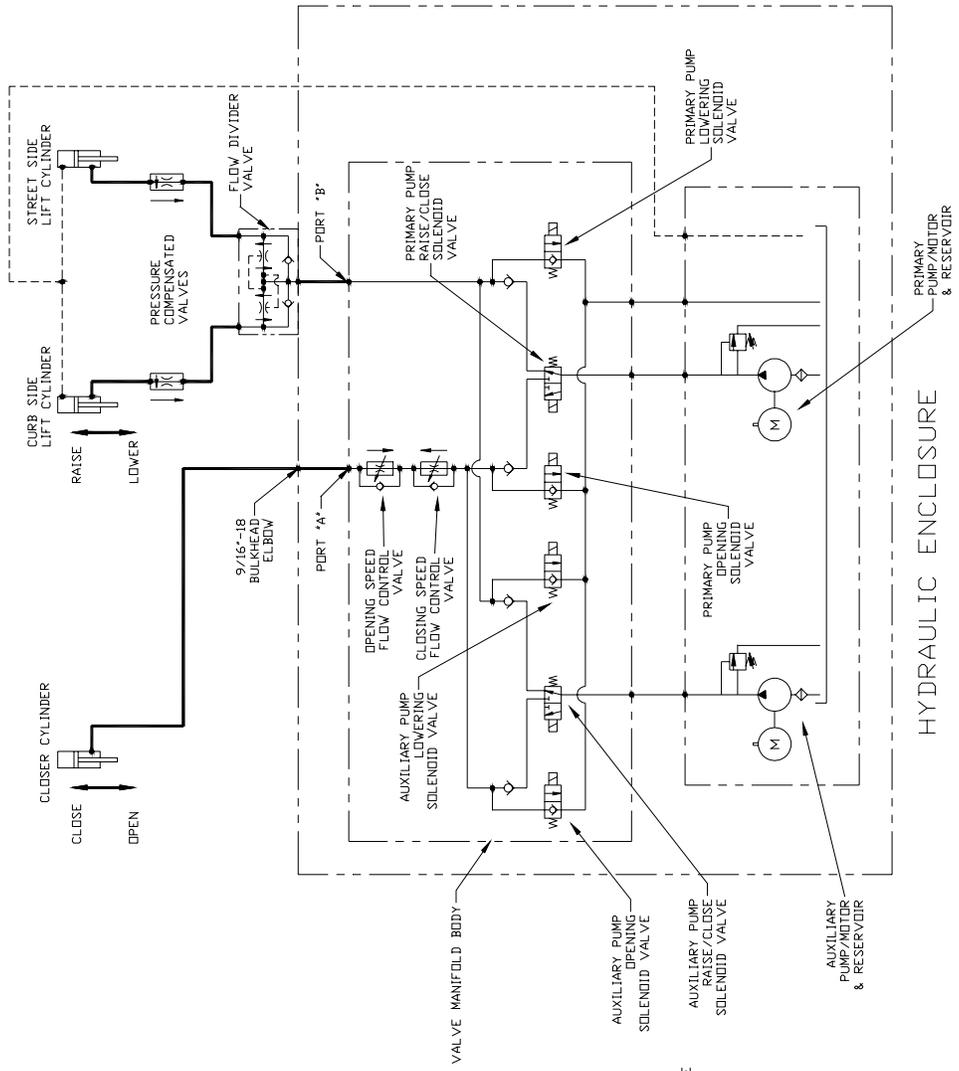
Built from 1/01  
SINGLE PUMP w/ HAND PUMP



# WDL RM SERIES HYDRAULIC SCHEMATIC w/ SUPER SWITCH CONTROL

## Built from 1/01

### DUAL PUMP



VALVE MANIFOLD BODY

# WDL-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

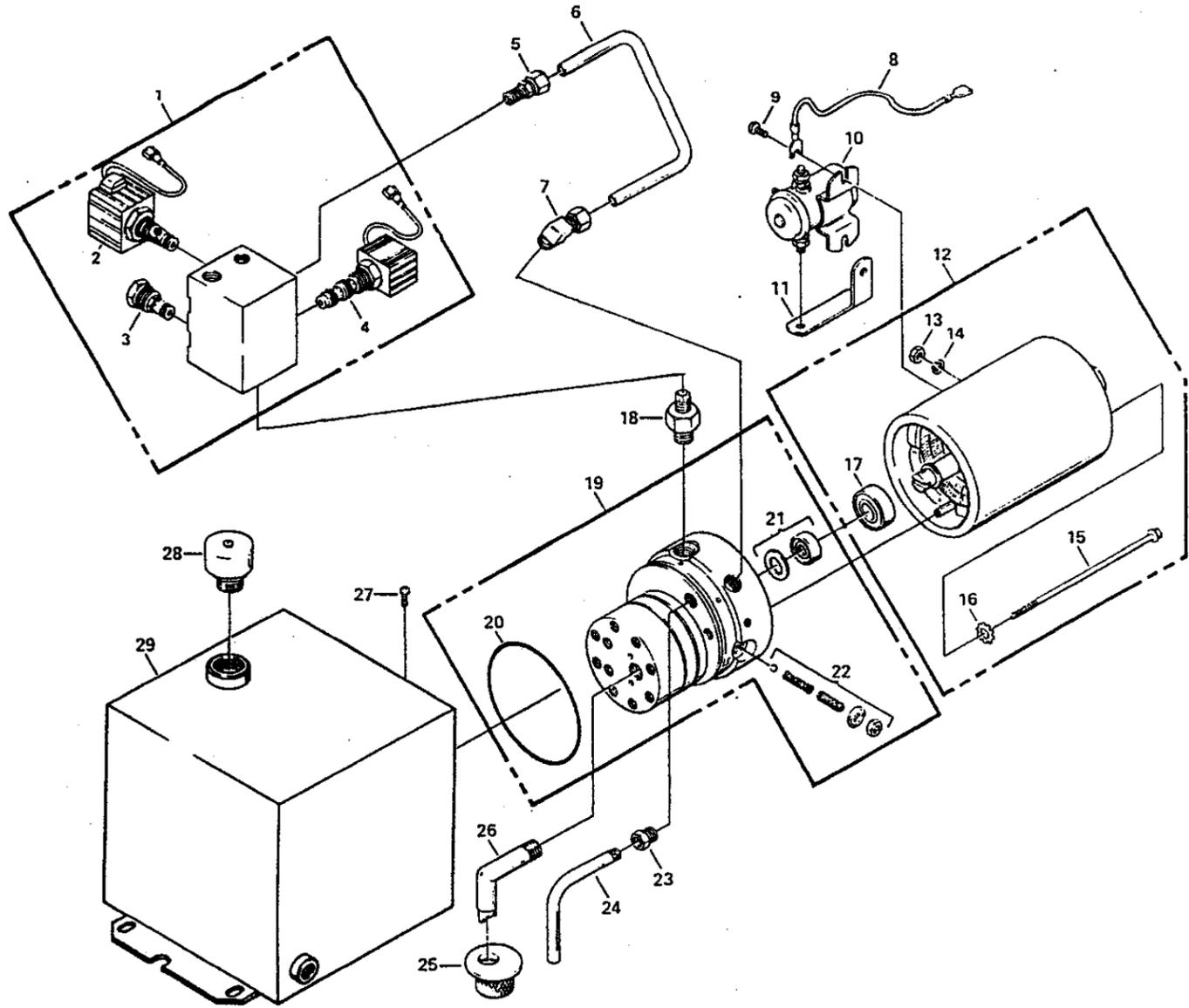
Part Number	Description	PM No.
32680050	Lift Cylinder	<a href="#">PM-327</a>
32680051	Lift Cylinder	<a href="#">PM-327A</a>
32480010	Closer Cylinder	<a href="#">PM-326</a>
32480011	Closer Cylinder	<a href="#">PM-326A</a>
32480012	Closer Cylinder	<a href="#">PM-326B</a>

## HYDRAULIC PUMPS

Part Number	Description	Pump Mfr.	Pressure	PM No.
85803925, 85803937	WDL Hyd. Pump Assy – Electropak	Monarch	2500 PSI	<a href="#">PM-287</a>
85803973, 85803974	WDL Dual Pump Hyd. Pump Assy – Electropak	Monarch	2500 PSI	<a href="#">PM-288</a>
70400975	WDL Hyd. Pump Assy – Thermalpak	Monarch	2700 PSI	<a href="#">PM-287A</a>
70401000	WDL Dual Pump Hyd. Pump Assy – Thermalpak	Monarch	2700 PSI	<a href="#">PM-288A</a>
70401500	WDL Hyd. Pump Assy – Thermalpak	Monarch	2700 PSI	<a href="#">PM-567</a>
70401525	WDL Dual Pump Hyd. Pump Assy - Thermalpak	Monarch	2700 PSI	<a href="#">PM-568</a>

80101040 Rev. 01 4/03

85803925, 85803937 – SOLENOID OPERATED



WALTCO  
TRUCK EQUIPMENT CO.  
85803925, 85803937

REVISED: 11-92

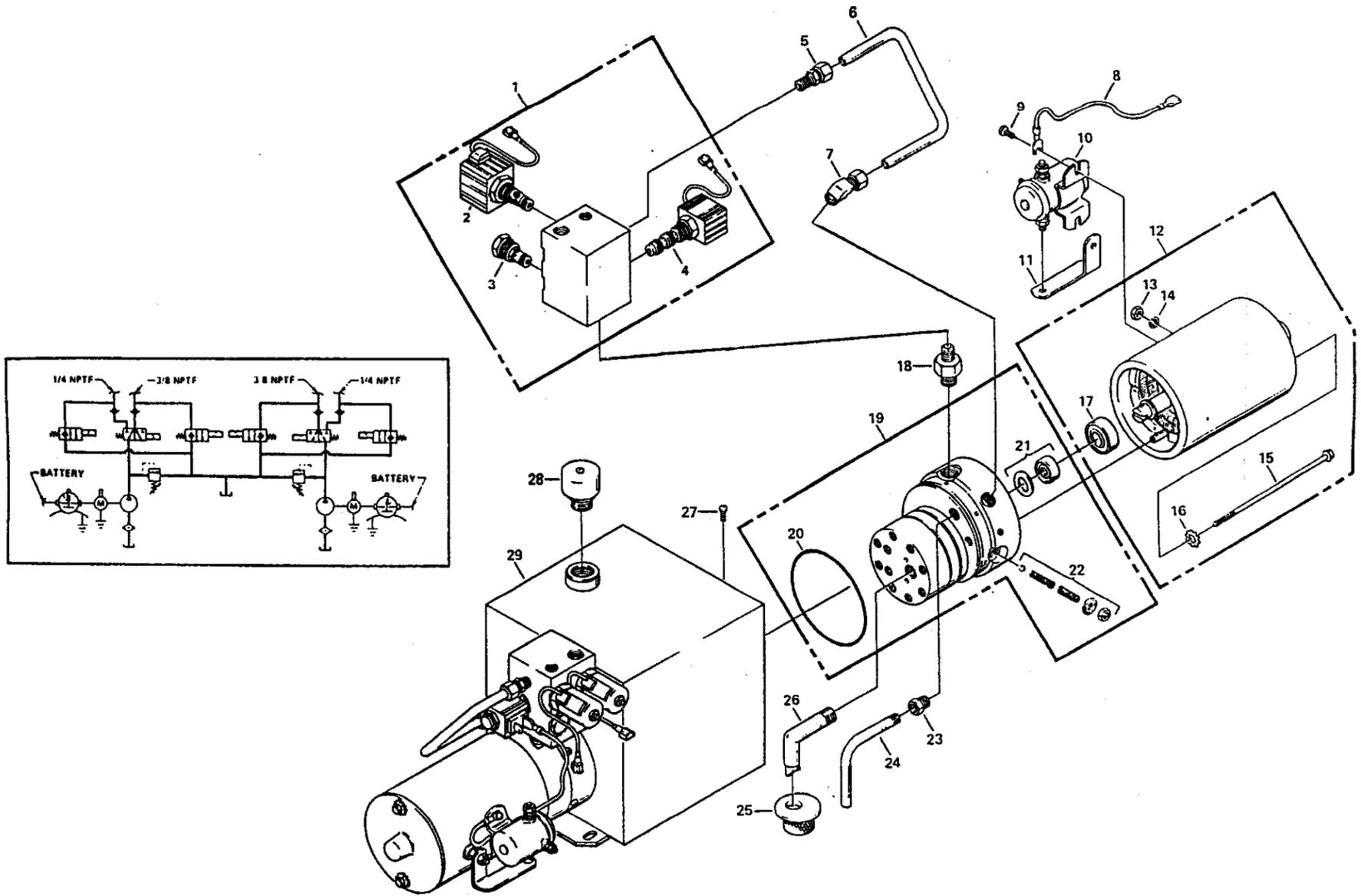
PM-287

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70092502	1	Valve Assembly
2	70092503	2	Valve, 2-Way
3	70092500	2	Valve, Check
4	70092501	1	Valve, Cartridge, 3-Way
5	70092506	1	Connector Assembly
6	70092508	1	Tube
7	70092505	1	Elbow Assembly
8	70092509	1	Wire Assembly
9	70091712	2	Screw, #10-32 x 1/4"
10	70092507	1	Solenoid
11	70091713	1	Solenoid Switch Mounting Bracket
12	70092514	1	Motor
13	70091722	1	Hex Nut, 5/16-24
14	70091723	1	Lock Washer, 5/16"
15	70091726	2	Screw, 1/4"-20 x 6-1/2"
16	70091724	2	Start Washer, 1/4"
17	70091721	1	Bearing
18	70092510	1	Union Assembly
19	70092511	1	Pump Assembly
20	70091717	1	"O" Ring
21	70092406	1	Parts Kit, Seal & Gasket
22	70092355	1	Parts Kit, Relief Valve
23	70092504	1	Bushing
24	70092328	1	Tube
25	70091730	1	Filter
26	70091731	1	Tube, Filter Suction
27	70091738	6	Screw, #10-24 x 3/8"
28	70091734	1	Breather
29	70092512	1	Reservoir
30*	70092515*	1*	Parts Kit, Seals & Screen*

**NOTE:**

\* Item 30 is not shown on drawings

85803973, 85803974 – SOLENOID OPERATED



WALTCO  
TRUCK EQUIPMENT CO.  
85803973, 85803974

REVISED: 11-92

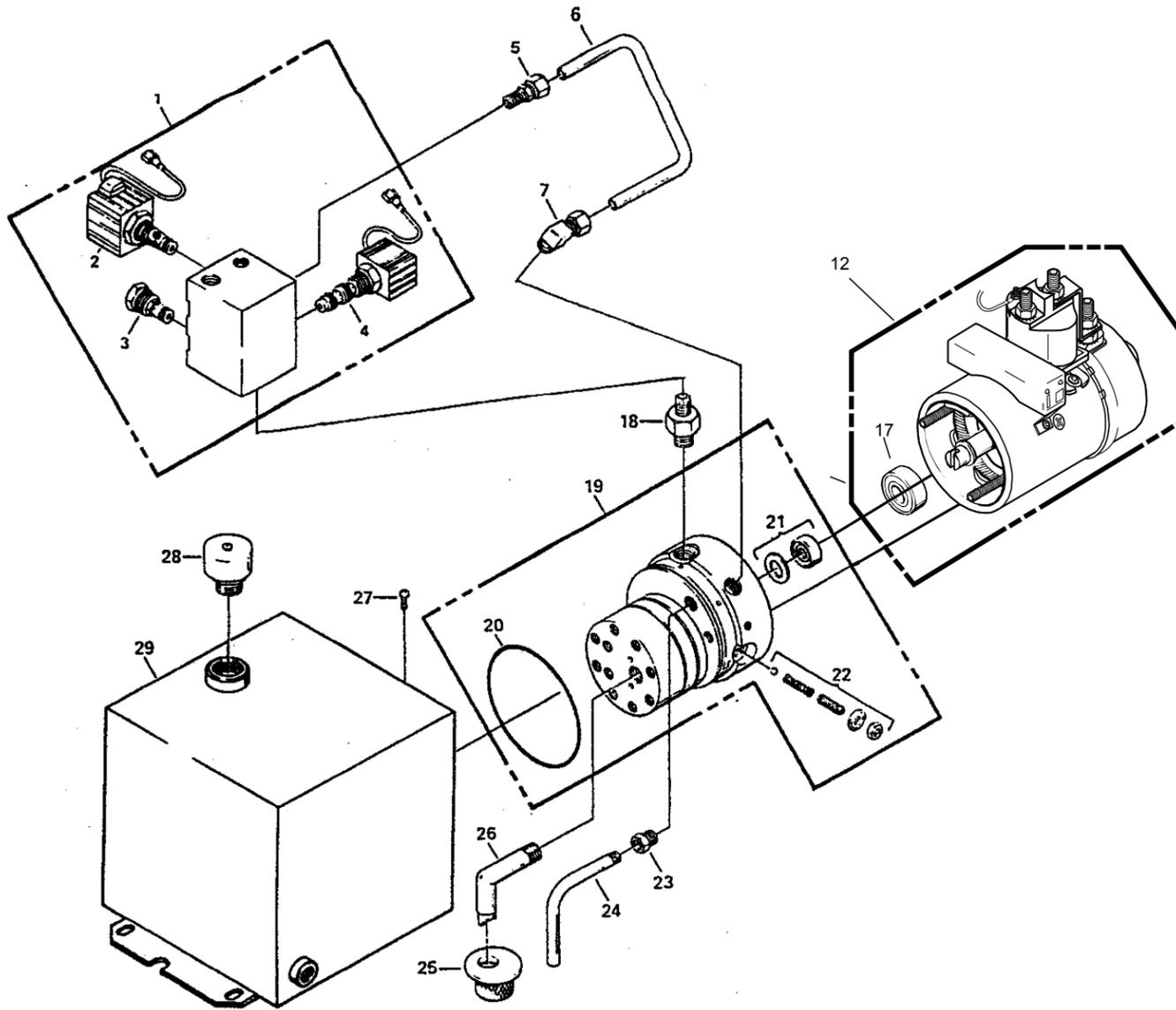
PM-288

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70092502	2	Valve Assembly
2	70092503	4	Valve, 2-Way
3	70092500	4	Valve, Check
4	70092501	2	Valve, Cartridge, 3-Way
5	70092506	2	Connector Assembly
6	70092508	2	Tube
7	70092505	2	Elbow Assembly
8	70092509	2	Wire Assembly
9	70091712	4	Screw, #10-32 x 1/4"
10	70092507	2	Solenoid
11	70091713	2	Solenoid Switch Mounting Bracket
12	70092514	2	Motor
13	70091722	2	Hex Nut, 5/16-24
14	70091723	2	Lock Washer, 5/16"
15	70091726	4	Screw, 1/4"-20 x 6-1/2"
16	70091724	4	Start Washer, 1/4"
17	70091721	2	Bearing
18	70092510	2	Union Assembly
19	70092511	2	Pump Assembly
20	70091717	2	"O" Ring
21	70092406	2	Parts Kit, Seal & Gasket
22	70092355	2	Parts Kit, Relief Valve
23	70092504	2	Bushing
24	70092328	2	Tube
25	70091730	2	Filter
26	70091731	2	Tube, Filter Suction
27	70091738	12	Screw, #10-24 x 3/8"
28	70091734	1	Breather
29	70092513	1	Reservoir
30*	70092515*	2*	Parts Kit, Seals & Screen*

**NOTE:**

\* Item 30 is not shown on drawings

70400975 – SOLENOID OPERATED THERMALPAK



**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**70400975**

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

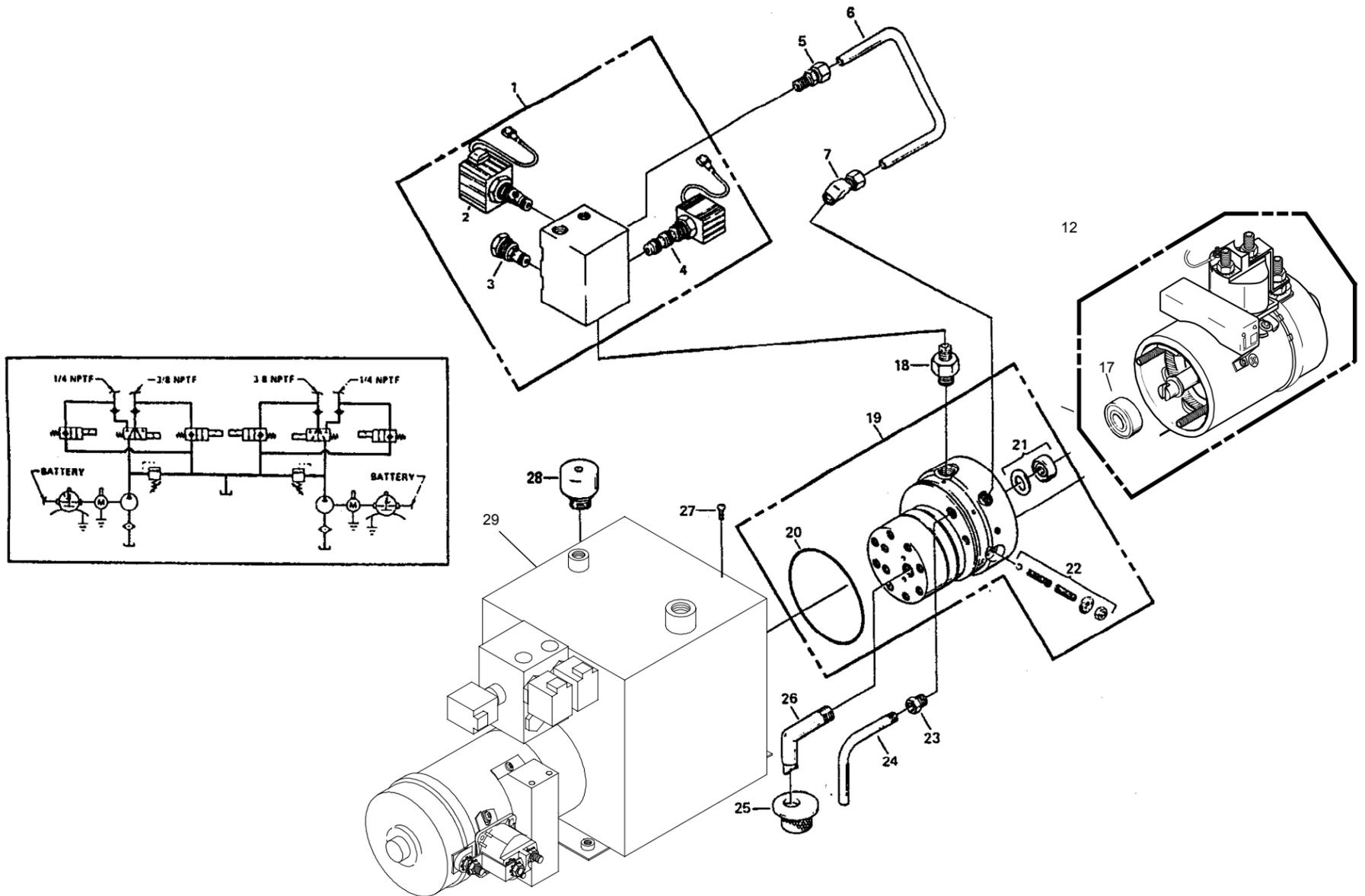
**PM-287A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70092502	1	Valve Assembly
2	70092503	2	Valve, 2-Way
3	70092500	2	Valve, Check
4	70092501	1	Valve, Cartridge, 3-Way
5	70092506	1	Connector Assembly
6	70092508	1	Tube
7	70092505	1	Elbow Assembly
12	70400854	1	Motor
15	70091726	2	Screw, 1/4"-20 x 6-1/2"
16	70091724	2	Start Washer, 1/4"
17	70091721	1	Bearing
18	70092510	1	Union Assembly
19	70092511	1	Pump Assembly
20	70091717	1	"O" Ring
21	70092406	1	Parts Kit, Seal & Gasket
22	70092355	1	Parts Kit, Relief Valve
23	70092504	1	Bushing
24	70092328	1	Tube
25	70091730	1	Filter
26	70091731	1	Tube, Filter Suction
27	70091738	6	Screw, #10-24 x 3/8"
28	70091734	1	Breather
29	70092512	1	Reservoir
30*	70092515*	1*	Parts Kit, Seals & Screen*

**NOTE:**

\* Item 30 is not shown on drawings

70401000 – SOLENOID OPERATED THERMALPAK DUAL PUMP



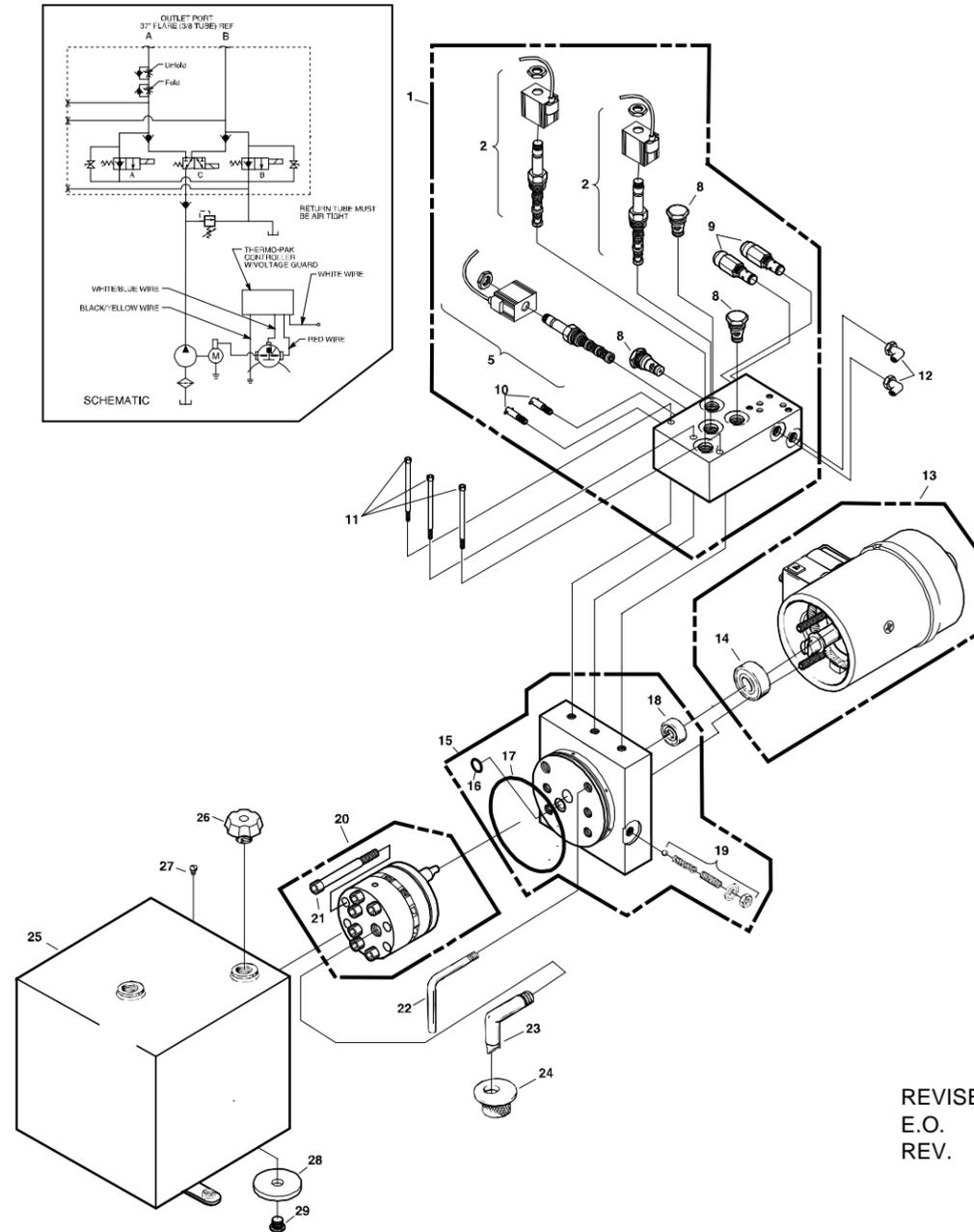
**WALTCO**  
**TRUCK EQUIPMENT CO.**  
**70401000**

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

**PM-288A**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70092502	2	Valve Assembly
2	70092503	4	Valve, 2-Way
3	70092500	4	Valve, Check
4	70092501	2	Valve, Cartridge, 3-Way
5	70092506	2	Connector Assembly
6	70092508	2	Tube
7	70092505	2	Elbow Assembly
12	70400854	2	Motor/Solenoid/Thermalpak
15	70091726	4	Screw, 1/4"-20 x 6-1/2"
16	70091724	4	Start Washer, 1/4"
17	70091721	2	Bearing
18	70092510	2	Union Assembly
19	70092511	2	Pump Assembly
20	70091717	2	"O" Ring
21	70092406	2	Parts Kit, Seal & Gasket
22	70092355	2	Parts Kit, Relief Valve
23	70092504	2	Bushing
24	70092328	2	Tube
25	70091730	2	Filter
26	70091731	2	Tube, Filter Suction
27	70091738	12	Screw, #10-24 x 3/8"
28	70091734	1	Breather
29	70092513	1	Reservoir
30*	70092515*	2*	Parts Kit, Seals & Screen*

70401500, 70401550, 70401600 – Gravity Down Single Pump w/ Thermalpak



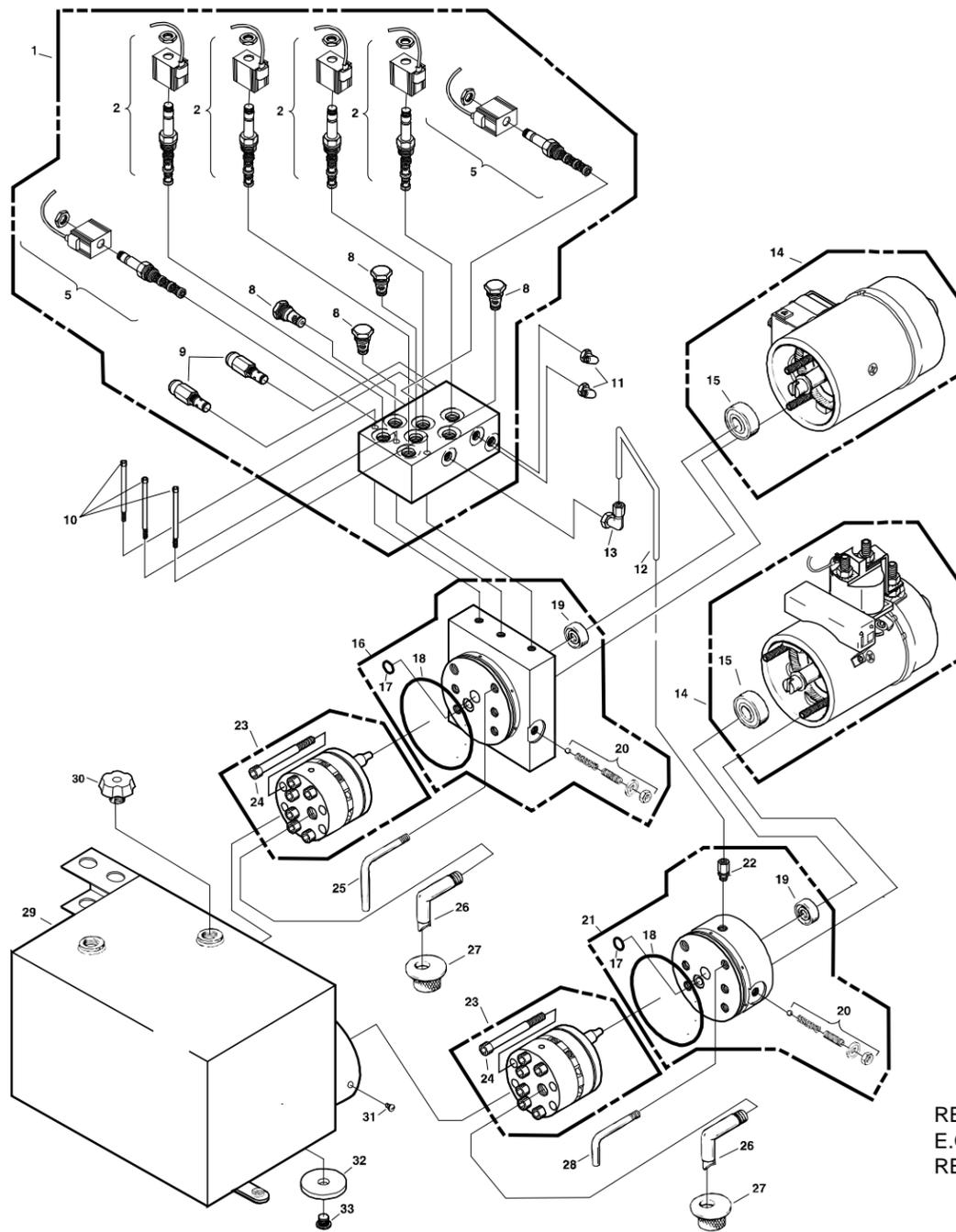
WALTCO  
TRUCK EQUIPMENT CO.  
70401500, 70401550, 70401600

REVISED: 8/16/02  
E.O. 4839  
REV. 02

PM-567

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401502	1	Valve Assembly Complete, 12VDC
2	70092503	2	Valve Assembly, 2-Way / 2 Position Solenoid Coil Valve
5	70092501	1	Valve Assembly, 3-Way / 2 Position Solenoid Coil Valve
8	70092500	2	Check Valve
9	70401503	2	Flow Control Valve
10	70401504	2	Lowering Valve Screw Assembly
11	70401505	3	1/4"-20 x 2-3/4" Socket Head Cap Screw
12	75082866	2	45° Elbow, 9/16"-18 "O" Ring x 9/16"-18 37° Flare
13	70400858	1	Motor Assembly (includes Thermalpak Controller and Solenoid)
14	70091721	1	Bearing
15	70401506	1	Base Assembly
16	70401507	1	"O" Ring
17	70091717	1	"O" Ring
18	70400006	1	Shaft Seal
19	70092315	1	Relief Valve Assembly
20	70401508	1	Pump Assembly
21	70401509	4	1/4"-20 x 3" Socket Head Cap Screw
22	70401405	1	Return Tube
23	70091731	1	Suction Tube
24	70091730	1	Filter, Screen
25	70401501	1	Reservoir
26	70401404	1	Breather
27	70091738	6	#10-24 x 3/8" Thread Forming Screw
28	70401510	1	Gasket
29	70401511	1	Plug, Drain

70401525, 70401575, 70401625 – Gravity Down Dual Pump w/ Thermalpak



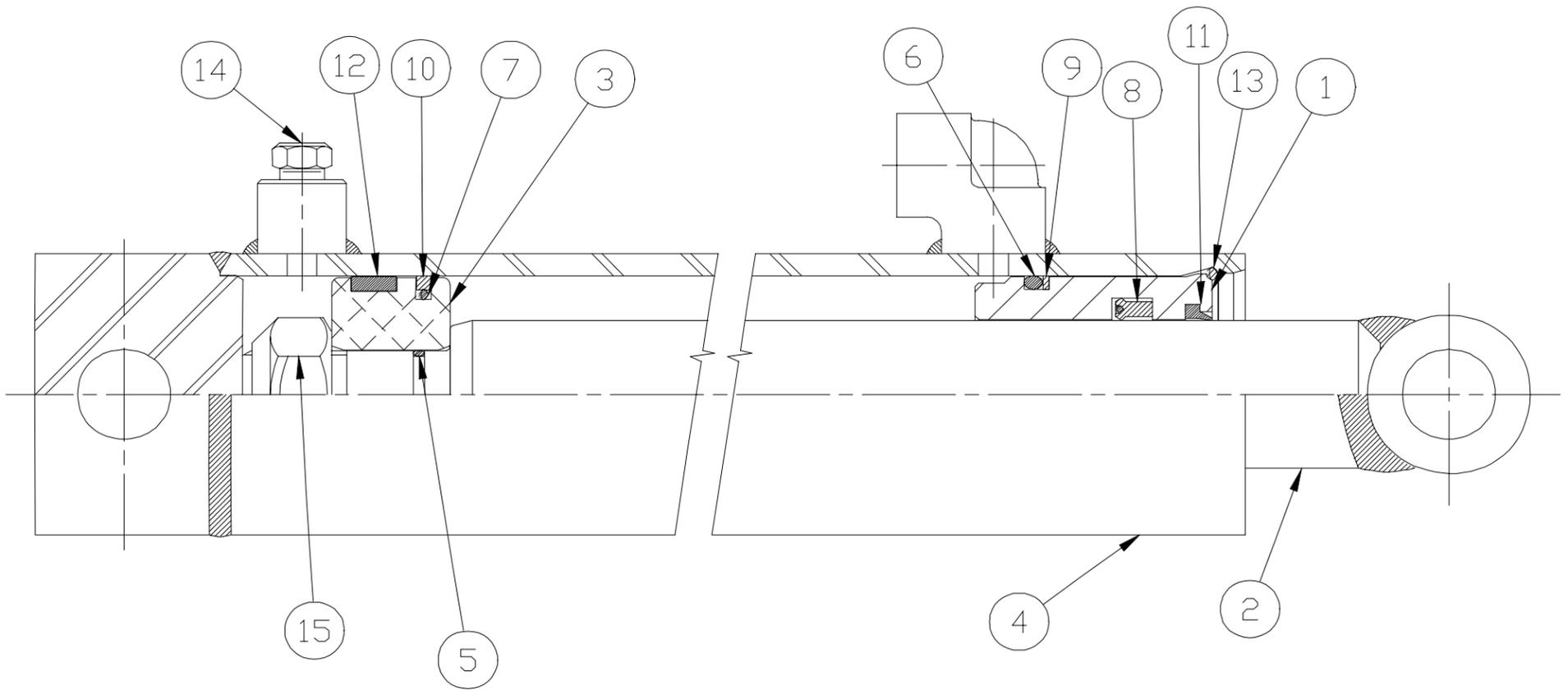
WALTCO  
TRUCK EQUIPMENT CO.  
70401525, 70401575, 70401625

REVISED: 8/16/02  
E.O. 4839  
REV. 02

PM-568

ITEM	PART NUMBER	QTY	DESCRIPTION
1	70401527	1	Valve Assembly Complete, 12VDC
2	70092503	4	Valve Assembly, 2-Way / 2 Position Solenoid Coil Valve
5	70092501	2	Valve Assembly, 3-Way / 2 Position Solenoid Coil Valve
8	70092500	4	Check Valve
9	70401503	2	Flow Control Valve
10	70401505	3	1/4"-20 x 2-3/4" Socket Head Cap Screw
11	75082866	2	45° Elbow, 9/16"-18 "O" Ring x 9/16"-18 37° Flare
12	70401528	1	Pressure Tube
13	70401529	1	Elbow Assembly
14	70400858	2	Motor Assembly (includes Thermalpak Controller and Solenoid)
15	70091721	2	Bearing
16	70401506	1	Base Assembly
17	70401507	2	"O" Ring
18	70091717	2	"O" Ring
19	70400006	2	Shaft Seal
20	70092315	2	Relief Valve Assembly
21	70401530	1	Base Assembly
22	70401531	1	Connector Assembly
23	70401508	2	Pump Assembly
24	70401509	8	1/4"-20 x 3" Socket Head Cap Screw
25	70401405	1	Return Tube
26	70091731	2	Suction Tube
27	70091730	2	Filter, Screen
28	70401406	1	Return Tube
29	70401526	1	Reservoir
30	70401404	1	Breather
31	70091738	12	#10-24 x 3/8" Thread Forming Screw
32	70401510	1	Gasket
33	70401511	1	Plug, Drain

**LIFT CYLINDER - 32680050**



**SPECIFICATIONS:**

Retracted 62.00"  
 Extended 117.25"  
 Barrel O.D. 2.38"

**WALTCO  
 TRUCK EQUIPMENT CO.  
 LIFT CYLINDER - 32680050**

REVISED: 4-21-2000  
 E.O. 3443  
 REV. 03

**PM-327**

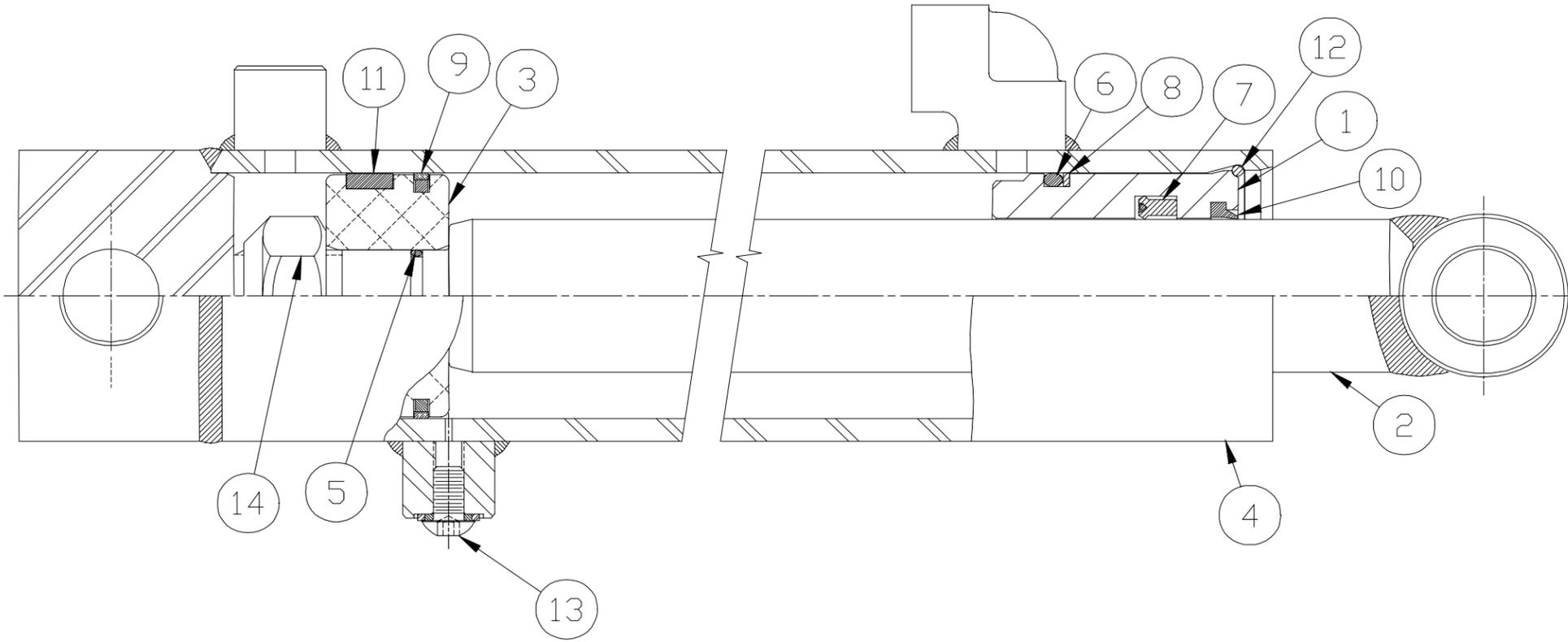
ITEM	PART NUMBER	QTY	DESCRIPTION
1	32680250	1	Nose Bearing
2	32681150	1	Rod Assembly
3	32681550	1	Piston
4	32682050	1	Barrel Assembly
5	-----*	1	"O" Ring
6	-----*	1	"O" Ring
7	-----*	1	"O" Ring
8	-----*	1	Rod Seal
9	-----*	1	Backup Ring
10	-----*	1	Piston Seal
11	-----*	1	Rod Wiper
12	-----*	1	Wear Ring
13	37482950	1	Retaining Ring
14	32681850	1	Breather
15	13581650	1	Locknut

\* Indicates parts included in repair kit No. 32680095.

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

Example: 11326-XXXXX

**LIFT CYLINDER RM - 32680051**



**SPECIFICATIONS:**

Retracted 62.00"  
 Extended 117.25"  
 Barrel O.D. 2.38"

**WALTCO  
 TRUCK EQUIPMENT CO.  
 LIFT CYLINDER RM - 32680051**

REVISED: 3-3-2000  
 E.O. 3443  
 REV. 01

**PM-327A**

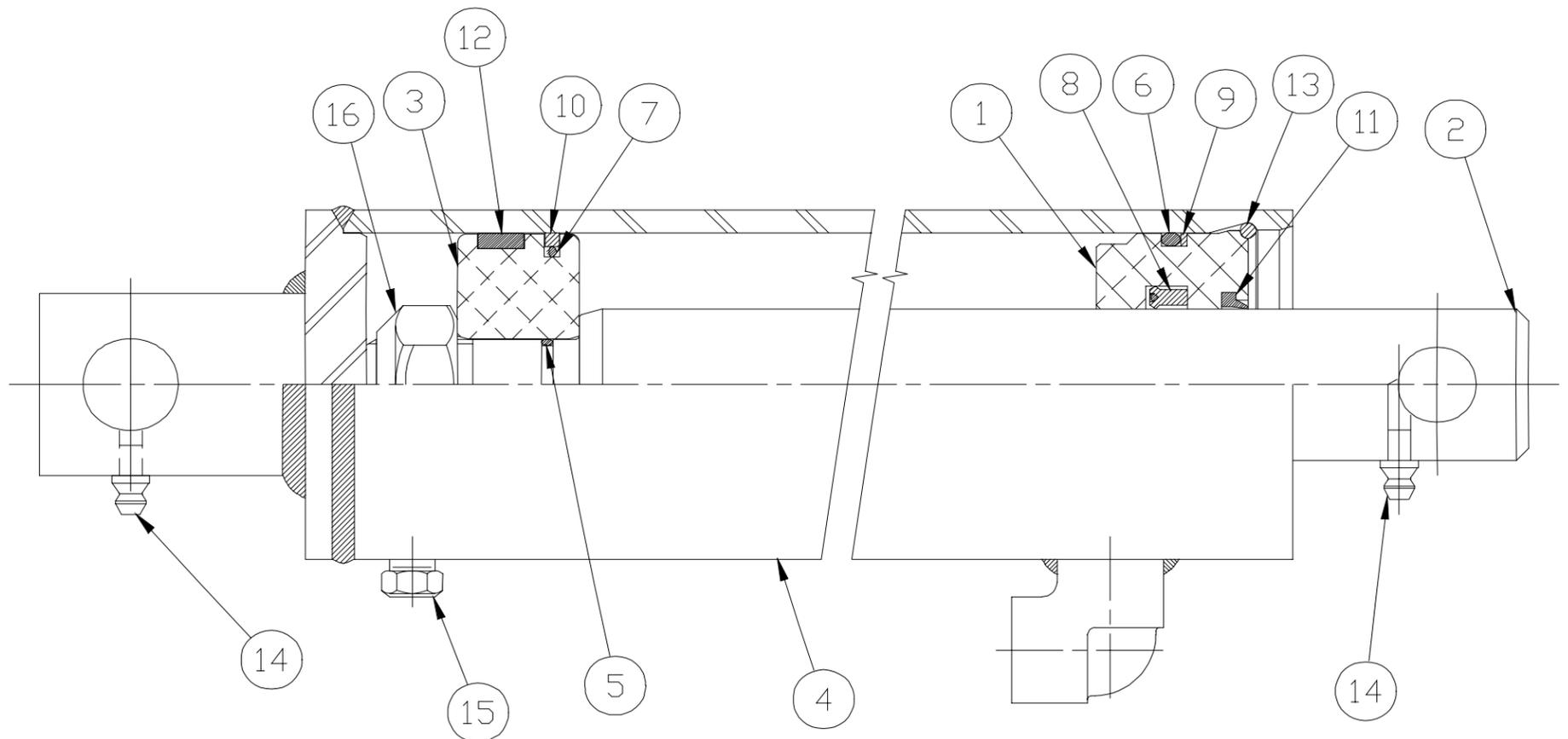
ITEM	PART NUMBER	QTY	DESCRIPTION
1	32680250	1	Nose Bearing
2	32681151	1	Rod Assembly
3	32681551	1	Piston
4	32682051	1	Barrel Assembly
5	-----*	1	"O" Ring
6	-----*	1	"O" Ring
7	-----*	1	Rod Seal
8	-----*	1	Backup Ring
9	-----*	1	Piston Seal
10	-----*	1	Rod Wiper
11	-----*	1	Wear Ring
12	37482950	1	Retaining Ring
13	31493601	1	Bleeder Screw w/ Seal Washer
14	13581650	1	Locknut

\* Indicates parts included in repair kit No. 32680096.

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

Example: 11398-XXXXX

**CLOSER CYLINDER - 32480010**



**SPECIFICATIONS:**

Retracted 10.875"  
 Extended 15.25"  
 Barrel O.D. 2.88"

**WALTCO  
 TRUCK EQUIPMENT CO.  
 CLOSER CYLINDER - 32480010**

REVISED: 4-21-2000  
 E.O. 3443  
 REV. 02

**PM-326**

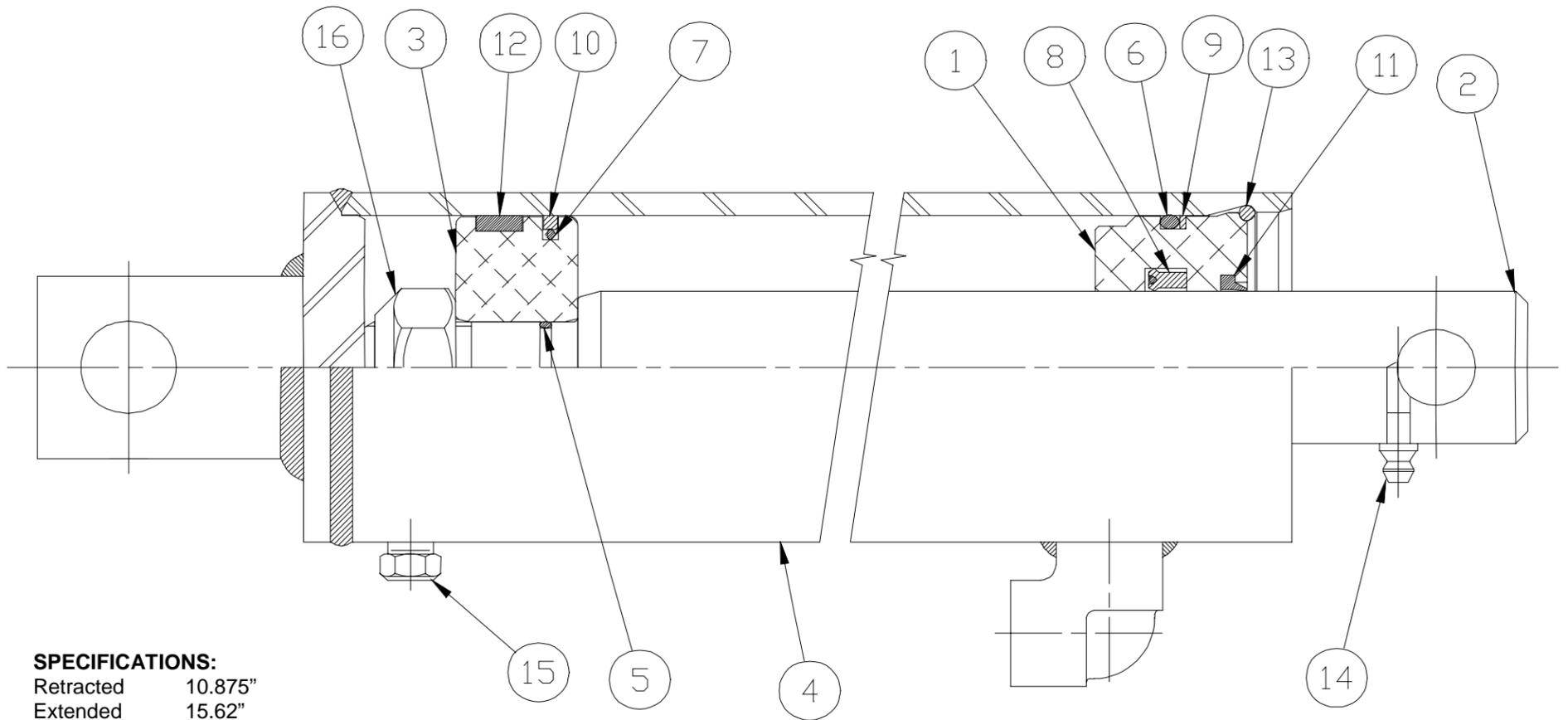
ITEM	PART NUMBER	QTY	DESCRIPTION
1	32480210	1	Nose Bearing
2	32481110	1	Rod Assembly
3	32481510	1	Piston
4	32482010	1	Barrel Assembly
5	-----*	1	"O" Ring
6	-----*	1	"O" Ring
7	-----*	1	"O" Ring
8	-----*	1	Rod Seal
9	-----*	1	Backup Ring
10	-----*	1	Piston Seal
11	-----*	1	Rod Wiper
12	-----*	1	Wear Ring
13	35282950	1	Retaining Ring
14	75089303	2	Grease Fitting
15	32681850	1	Breather
16	13581650	1	Locknut

\* Indicates parts included in repair kit No. 32480095.

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

Example: 11324-XXXXX

**CLOSER CYLINDER - 32480011**



**SPECIFICATIONS:**  
 Retracted 10.875"  
 Extended 15.62"  
 Barrel O.D. 2.88"

**WALTCO  
 TRUCK EQUIPMENT CO.  
 CLOSER CYLINDER - 32480011**

REVISED: 4-21-2000  
 E.O. 3443  
 REV. 03

**PM-326A**

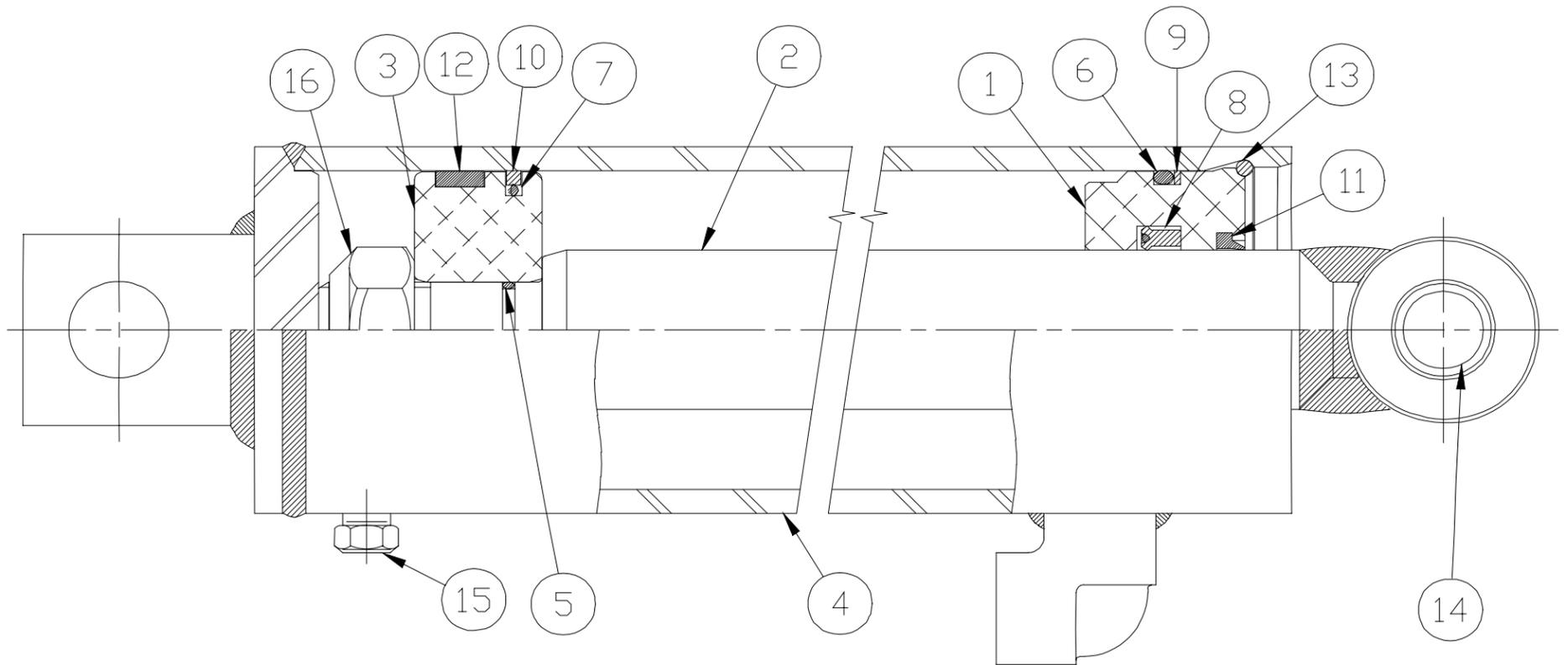
ITEM	PART NUMBER	QTY	DESCRIPTION
1	32480210	1	Nose Bearing
2	32481111	1	Rod Assembly
3	32481510	1	Piston
4	32482011	1	Barrel Assembly
5	-----*	1	"O" Ring
6	-----*	1	"O" Ring
7	-----*	1	"O" Ring
8	-----*	1	Rod Seal
9	-----*	1	Backup Ring
10	-----*	1	Piston Seal
11	-----*	1	Rod Wiper
12	-----*	1	Wear Ring
13	35282950	1	Retaining Ring
14	75089303	2	Grease Fitting
15	32681850	1	Breather
16	13581650	1	Locknut

\* Indicates parts included in repair kit No. 32480095.

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

Example: 11390-XXXXX

**CLOSER CYLINDER RM - 32480012**



**SPECIFICATIONS:**

Retracted 10.875"  
 Extended 15.62"  
 Barrel O.D. 2.88"

**WALTCO  
 TRUCK EQUIPMENT CO.  
 CLOSER CYLINDER RM - 32480012**

REVISED: 4-21-2000  
 E.O. 3443  
 REV. 01

**PM-326B**

ITEM	PART NUMBER	QTY	DESCRIPTION
1	32480210	1	Nose Bearing
2	32481112	1	Rod Assembly
3	32481510	1	Piston
4	32482011	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	35282950	1	Retaining Ring
14	32481712	1	Bearing
15	32681850	2	Breather
16	13581650	1	Locknut

\* Indicates parts included in repair kit No. 32480095.

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

Example: 11406-XXXXX



# WALTCO

## TECH TIPS

WDL /  
WDLBG

<b>TT960014</b>	Ground Cable for Hydraulic Enclosures with a Slide Out Tray.
<b>TT970001</b>	New, three lug cast steel Closer Hubs for WDL Series liftgates.
<b>TT990028</b>	All models of the WDL and WDLBG Series liftgates sold after 10-1-98, have incorporated reduced maintenance features.
<b>TT000044</b>	Proper bleeding procedure for the WDL RM Series liftgates equipped with dual pumps.
<b>TT000050</b>	WDL/WDLBG RM "new" pump and enclosure features with Power Kit Options.
<b>TT010063</b>	WDL RM, WDLBG RM, RGL, RBGL Dual Pumps with Thermalpak™ w/ Voltage Guard™ wiring change and retro-fix.
<b>TT010082</b>	New WDL RM Series Bottom Stops, Store Below, and Threshold Extension.
<b>TT010083</b>	New WDL RM Series Bottom Stops, Store Below, and Threshold Extension service part replacements for Reduced Maintenance liftgates.
<b>TT020112</b>	Liftgate Platform does not raise and lower evenly
<b>TT020115</b>	New LED Light Kits
<b>TT030121</b>	New Cycle Counter for WDL, RGL, F, C and E
<b>TT030139</b>	Voltage Guard Connections
<b>TT030146</b>	Lubrication of Reduced Maintenance Bushings

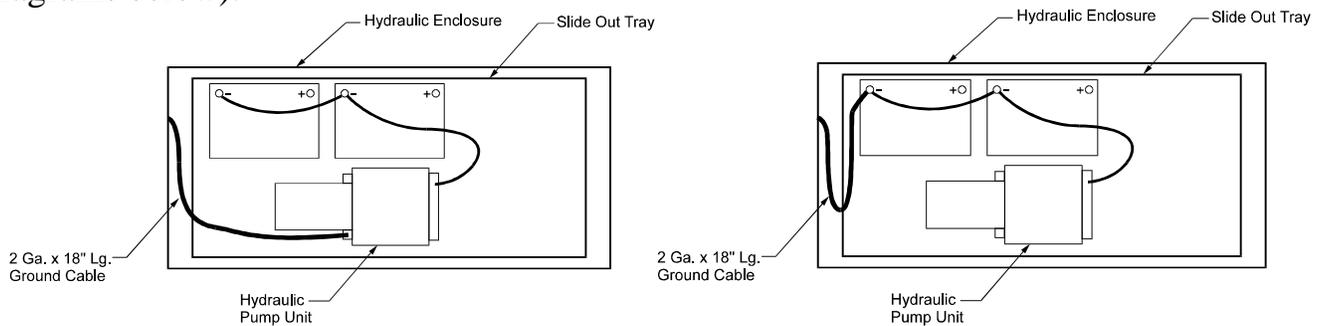


# WALTCO TECH TIPS

Date: 3-5-97  
No. TT960014  
Model: RGL/WDL  
EO No. n/a

**SUBJECT:** Ground Cable for Hydraulic Enclosures with a Slide Out Tray.

Effective immediately, all WDL and RGL liftgates that have a Hydraulic Enclosure with a Slide Out Tray, must include a Ground Cable from the side of the Enclosure to either the Slide Out Tray or the negative terminal of one of the Auxiliary Batteries (see diagrams below).



This cable must be a minimum 2 Ga. cable, We recommend and can provide a 2 ga. x 18" lg. Battery cable. The 18" length allows the tray to be pulled out when accessing the Hydraulic unit for servicing or any other reason.

This Cable is required to achieve an adequate ground for the charging system for the Auxiliary Batteries. Without this Ground Cable, there is insufficient contact between the tray and the enclosure to provide a reliable ground for charging of the Auxiliary Batteries.

Normal operation of the pump unit causes the auxiliary batteries to discharge as they are used (this is normal and expected). An unreliable ground can prevent the Auxiliary Batteries from being properly recharged, which causes low voltage. Operating the pump unit with low voltage can damage the Motor Solenoid and eventually can cause the Motor Solenoid to stick or freeze in the "On" position. This can then cause the Pump Motor to run continuously until it overheats and burns out.

Liftgates in the field that do not have a ground cable from the side of the Enclosure to either the Batteries or the Slide Out Tray, should be reworked, as shown in either of the diagrams above, as soon as possible.



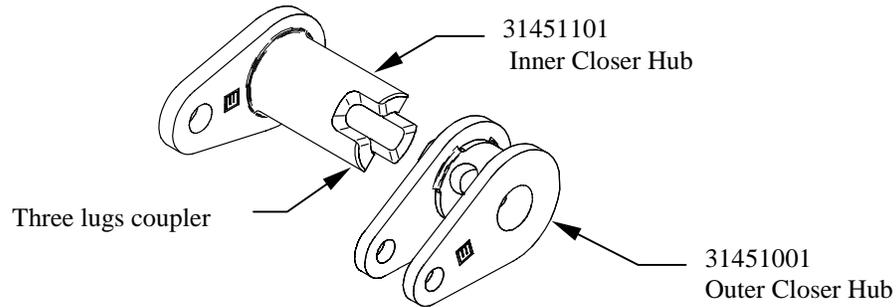
# WALTCO

## TECH TIPS

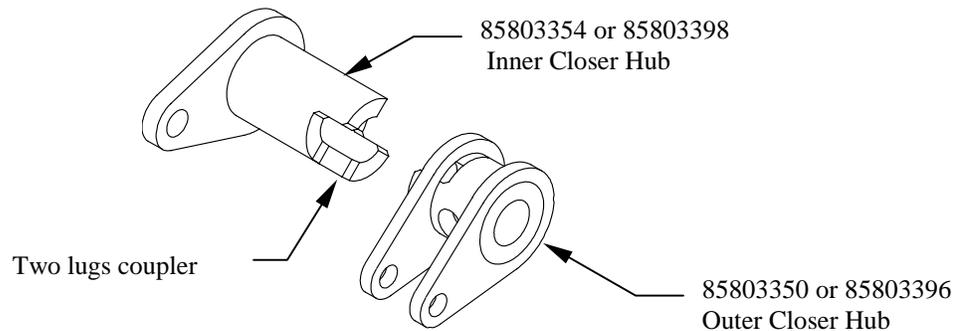
Date: 3-14-97  
No. TT970001  
Model: WDL  
EO No. 3047C

SUBJECT: New three lug cast steel Closer Hubs for WDL Series liftgates.

All models of the WDL series liftgates manufactured after 3-14-97, will have the new cast steel three lug Outer Closer Hub (31451001) and Inner Closer Hub (31451101), as shown below. The new Closer Hubs were released into production by E.O. 3047C. In addition, the new Closer Hubs will be provided as service parts as detailed in ***“EFFECT ON SERVICE PARTS”***.



### New three lug cast steel Closer Hubs



### Replaces Machined two lug Closer Hubs

The new Outer and Inner Closer Hubs are made from high strength cast steel. The Inner Closer Hub is heat treated to provide improved crack resistance and wear properties.

## **EFFECT ON SERVICE PARTS**

1. The “WDL Series Closer Hub and Closer Cylinder Replacement Kit (80000654)” has been revised to include the new cast steel Outer Closer Hub (31451001) and Inner Closer Hub (31451101) and will be available after 3-14-97.
2. For *units manufactured after 3/21/95 and prior to 3-14-97*, the new cast steel Outer Closer Hub (31451001) and Inner Closer Hub (31451101) **can only be provided as a set** for replacement of the old Outer Closer Hub (85803399) and Inner Hub (8580394).
3. For *units updated since 3/21/95 and prior to 3-14-97* with the “WDL Series Closer Hub and Closer Cylinder Replacement Kit (80000654)” Rev. 01, the new cast steel Outer Closer Hub (31451001) and Inner Closer Hub (31451101) **can only be provided as a set** for replacement of the old Outer Closer Hub (85803399) and Inner Hub (8580394).
4. For *units manufactured prior to 3/21/95 that have not been updated*, the new cast steel Outer Closer Hub (31451001) and Inner Closer Hub (31451101) **can only be provided as a set** in the “WDL Series Closer Hub and Closer Cylinder Replacement Kit (80000654)” Rev. 02
5. For *units manufactured after 3-14-97 or updated with “WDL Series Closer Hub and Closer Cylinder Replacement Kit (80000654)” Rev. 02*, the new cast steel Outer Closer Hub (31451001) and Inner Closer Hub (31451101) **can be provided as individual parts**.



# WALTCO TECH TIPS

Date: 4-16-99  
No. TT990028  
Model: WDLRM  
EO No. 3393

Subject: Reduced Maintenance WDL Series liftgates.

All models of the WDL and WDLBG (Now referred to as WDL RM and WDLBG RM) Series liftgates sold after 10-1-98 have incorporated reduced maintenance features including replacement of grease fittings with greaseless Teflon™ composite bearings at critical wear points throughout the liftgate. In addition, Teflon™ composite bearings have been added to the Platform Extension Hinges.

In addition to the reduced maintenance features there have also been several other improvements to the WDL RM and WDLBG RM Series liftgates:

1. Converted all electrical switches from Push Button control to the new Superswitch™.
2. Replaced the “Pusher Pin” platform opening assist with two torsion springs which provide opening assist throughout the first 45° of the platform opening.
3. Changed the method of routing and mounting of all hoses and electrical wires in the liftgate for easier assembly.
4. Added Tees at the bottom of the uprights to provide the customer with two different routing options for the hoses running from the liftgate to the Hydraulic Enclosure.
5. Added a Bleeder Port to the top of the lift cylinders to ease bleeding of the hydraulic system.
6. Added Fluid Return Lines from the top of the Lift Cylinders to the Hydraulic Reservoir.

## **EFFECT ON SERVICE PARTS:**

### **A. New will work for old – no rework or additional parts required:**

1. New Roller Assemblies (31439501) can replace old (85803392).
2. New Cylinder Pins (31471501 & 31470501) can replace old (85803345 & 85803343).
3. New Closer Cylinder (32480012) can replace old (32480011).
4. New Transit Latch Assemblies can replace old:

New P/N	Old P/N	Description
31333501	85803250	Curb Side Transit Latch Assembly (1 Pc. Platforms)
31333551	85803251	Street Side Transit Latch Assembly (1 Pc. Platforms)
31433501	85803244	Curb Side Transit Latch Assembly (2 Pc. Platforms)
31433551	85803245	Street Side Transit Latch Assembly (2 Pc. Platforms)

5. New Inner Hubs can replace old (Outer CS hub did not change part numbers).

New P/N	Old P/N	Description
31451102	31451101	Curb Side Inner Hub
31451301	85803358	Street Side Hub

**B. New will work for old – no rework but additional parts are required:**

1. New Roller Pin Assemblies (31439001) can replace old (85803393) if new rollers (31439501) are ordered at the same time.
2. New Street Side Runner Assemblies can replace old but several new parts will also be required. The new runners must include the complete Transit Latch assembly (refer to appropriate PM drawing for part numbers), a new Street Side Hub (31451301), and a new Main Platform Pin (31411201).

New P/N	Old P/N	Description
31330051	85803796	Runner Assembly Complete, DS, 1 Pc. Platforms
31430051	85803780	Runner Assembly Complete, DS, 2 Pc. Platforms
31530051	85803368	Runner Assembly Complete, DS, 2 Pc. Platforms w/ Bottom Stops
32430051	85803782	Runner Assembly Complete, DS, 2 Pc. Platforms w/ Store Below Option (60" BE Platforms only)
32530051	85803315	Runner Assembly Complete, DS, 2 Pc. Platforms w/ Store Below Option (60" + 15" & 72" BE Platforms only)
31230051	31235051	Runner Assembly Complete, DS, WDLBG

**C. New will work for old – but rework and additional parts are required:**

1. New Lift Cylinders (32680051) can replace old (32680010) only if both cylinders are replaced and a Return Line Kit (No number at this time) is added to the liftgate.
2. New Torsion Springs (31437101 and 31437151) can replace the old Pusher assembly with some rework to the Runners and the Platform as follows:
  - The Platform must be reworked to have two (2) spring stops (31417801) and the platform stop angle (31417501) added to accommodate the new Torsion Springs.
  - The Street Side Runner must be reworked to have the grease fitting (75089303) on the Inner Bearing Tube moved to a new location to accommodate the new Torsion Spring.
  - The Curb Side Runner must be reworked to have the grease fitting (75089303) on the Inner Bearing Tube moved to a new location to accommodate the new Torsion Spring. The old Pusher Pin Assembly must also be removed and a new Platform Stop Angle with Rubber Stop Pad (31434601, 31434701, 31436801, 75086007 (2), 75088051 (2), 75085161 (2)) must be added to the Runner.
3. New Curb Side Runner Assemblies can replace old but several new parts and some rework of the platform and the Street Side Runner will be required. The new runner must include the following:
  - Complete Transit Latch assembly (refer to appropriate PM drawing for part numbers).
  - A new Curb Side Inner Hub (31451102) and Outer Hub (31451001).
  - A new Main Platform Pin (31411201).
  - New torsion springs for both curb side and street side (31437101 & 31437151).
  - A new curb side Runner Cover Plate (see New Will Not Work for old for appropriate part number).
  - A Raise/Lower Superswitch™ (10099300) for the inside control switch.

- The Platform must be reworked to have two (2) spring stops (31417801) and the platform stop angle (31417501) added to accommodate the new Torsion Springs.
- The Street Side Runner must be reworked to have the grease fitting (75089303) on the Inner Bearing Tube moved to a new location to accommodate the new Torsion Spring.
- The Inside Control Cable/Closer Hose Assembly must be re-mounted to the top of the Curb Side Runner using new hose clamps (75083044 & 75082880) and nut and bolt (75086062 & 75085161). The Control cable must then be connected to the Raise/Lower Switch with three (3) 16 Ga. Butt Connectors (75082033).

New P/N	Old P/N	Description
31330001	85803794	Runner Assembly Complete, CS, 1 Pc. Platforms
31430001	85803779	Runner Assembly Complete, CS, 2 Pc. Platforms
31530001	85803367	Runner Assembly Complete, CS, 2 Pc. Platforms w/ Bottom Stops
32430001	85803781	Runner Assembly Complete, CS, 2 Pc. Platforms w/ Store Below Option (60" BE Platforms only)
32530001	85803314	Runner Assembly Complete, CS, 2 Pc. Platforms w/ Store Below Option (60" + 15" & 72" BE Platforms only)
31230001	31235001	Runner Assembly Complete, CS, WDLBG

4. New WDL RM One Piece Platforms or Two Piece Platforms Complete can replace old but several new parts and some rework of the runners will be required. The new Platform must include the following:

- New torsion springs for both curb side and street side (31437101 & 31437151).
- The Street Side Runner must be reworked to have the grease fitting (75089303) on the Inner Bearing Tube moved to a new location to accommodate the new Torsion Spring.
- The Curb Side Runner must be reworked to have the grease fitting (75089303) on the Inner Bearing Tube moved to a new location to accommodate the new Torsion Spring. The old Pusher Pin Assembly must also be removed and a new Platform Stop Angle with Rubber Stop Pad (31434601, 31434701, 31436801, 75086007 (2), 75088051 (2), 75085161 (2)) must be added to the Runner.

New P/N	Old P/N	Description
31411009	85803400	42" x 80" Butt End Platform
31411010	85803415	42" x 80" Butt End Platform w/ Bottom Stops
32411009	85803721	42" x 86" Butt End Platform
32411010	85803416	42" x 86" Butt End Platform w/ Bottom Stops
31410001	85803772	Platform Assy Complete, 60" x 80" B.E. (Break Even)
31410002	85803628	Platform Assy Complete, 60" x 80" B.E. (Break Even) w/ Bottom Stops
31410003	85803701	Platform Assy Complete, 72" x 80" B.E. (Break Even)
31410004	85803644	Platform Assy Complete, 72" x 80" B.E. (Break Even) w/ Bottom Stops
31410005	85803630	Platform Assy Complete, 60" x 80" + 15" (Break Even)

New P/N	Old P/N	Description
31410006	85803633	Platform Assy Complete, 60" x 80" + 15" (Break Even) w/ Bottom Stops
31410007	85803634	Platform Assy Complete, 60" x 80" + 15" C.S. (Break Even)
31410008	85803636	Platform Assy Complete, 60" x 80" + 15" C.S. (Break Even) w/ Bottom Stops
31410009	85803153	Platform Assy Complete, 72" x 80" + 15" (Break Even)
31410010	85803650	Platform Assy Complete, 72" x 80" + 15" (Break Even) w/ Bottom Stops
31410011	85803154	Platform Assy Complete, 72" x 80" + 15" C.S. (Break Even)
31410012	85803646	Platform Assy Complete, 72" x 80" + 15" C.S. (Break Even) w/ Bottom Stops
31410013	85803157	Platform Assy Complete, 86" x 80" B.E. (Break Even)
31410014	85803648	Platform Assy Complete, 86" x 80" B.E. (Break Even) w/ Bottom Stops
32410001	85803625	Platform Assy Complete, 60" x 86" B.E. (Break Even)
32410002	85803629	Platform Assy Complete, 60" x 86" B.E. (Break Even) w/ Bottom Stops
32410003	85803704	Platform Assy Complete, 72" x 86" B.E. (Break Even)
32410004	85803645	Platform Assy Complete, 72" x 86" B.E. (Break Even) w/ Bottom Stops
32410005	85803637	Platform Assy Complete, 60" x 86" + 15" (Break Even)
32410006	85803640	Platform Assy Complete, 60" x 86" + 15" (Break Even) w/ Bottom Stops
32410007	85803641	Platform Assy Complete, 60" x 86" + 15" C.S. (Break Even)
32410008	85803643	Platform Assy Complete, 60" x 86" + 15" C.S. (Break Even) w/ Bottom Stops
32410009	85803100	Platform Assy Complete, 72" x 86" + 15" (Break Even)
32410010	85803651	Platform Assy Complete, 72" x 86" + 15" (Break Even) w/ Bottom Stops
32410011	85803432	Platform Assy Complete, 72" x 86" + 15" C.S. (Break Even)
32410012	85803647	Platform Assy Complete, 72" x 86" + 15" C.S. (Break Even) w/ Bottom Stops
32410013	85803498	Platform Assy Complete, 86" x 86" B.E. (Break Even)
32410014	85803649	Platform Assy Complete, 86" x 86" B.E. (Break Even) w/ Bottom Stops

5. New WDBG L RM Platforms can replace old but several new parts and some rework of the runners will be required. The new Platform must include the following:

- New torsion springs for both curb side and street side (31437101 & 31437151).
- The Street Side Runner must be reworked to have the grease fitting (75089303) on the Inner Bearing Tube moved to a new location to accommodate the new Torsion Spring.
- The Curb Side Runner must be reworked to have the grease fitting (75089303) on the Inner Bearing Tube moved to a new location to accommodate the new Torsion Spring. The old Pusher Pin Assembly must also be removed and a new Platform Stop Angle with Rubber Stop

Pad (31434601, 31434701, 31436801, 75086007 (2), 75088051 (2), 75085161 (2)) must be added to the Runner.

New P/N	Old P/N	Description
31211037	31211035	Deck Assembly, 36" x 80", Fixed Rails
31211038	31211036	Deck Assembly, 36" x 80", Fold Down Rails
31211047	31211045	Deck Assembly, 42" x 80", Fixed Rails
31211048	31211046	Deck Assembly, 42" x 80", Fold Down Rails
32211037	32211035	Deck Assembly, 36" x 86", Fixed Rails
32211038	32211036	Deck Assembly, 36" x 86", Fold Down Rails
32211047	32211045	Deck Assembly, 42" x 86", Fixed Rails
32211048	32211046	Deck Assembly, 42" x 86", Fold Down Rails

**D. New will not work for old:**

1. New main Deck Pins (31411201) cannot be used for old Platforms.
2. New Curb Side Runner Cover Plates cannot be used for old.

New P/N	Old P/N	Description
31337501	85803480	Runner Cover Plate – 1 Pc. Platforms and WDLBG
31437501	85803442	Runner Cover Plate – 2 Pc. Platforms and Store Below for 60" BE Only
32537501	85803787	Runner Cover Plate – Store Below for 60" + 15" & 72" BE Only

3. Individual new Decks (for 2 Pc. Platforms) cannot be used for old.

New P/N	Old P/N	Description
31411001	85803773	Deck Assy, 60" x 80" B.E. (Break Even)
31411002	N/A	Deck Assy, 60" x 80" B.E. (Break Even) w/ Bottom Stops
31411003	85803702	Deck Assy, 72" x 80" B.E. (Break Even)
31411004	N/A	Deck Assy, 72" x 80" B.E. (Break Even) w/ Bottom Stops
31411005	85803631	Deck Assy, 60" x 80" + 15" (Break Even)
31411006	N/A	Deck Assy, 60" x 80" + 15" (Break Even) w/ Bottom Stops
31411007	85803185	Deck Assy, 42" x 80" (Break Even)
31411008	N/A	Deck Assy, 42" x 80" (Break Even) w/ Bottom Stops
32411001	85803626	Deck Assy, 60" x 86" B.E. (Break Even)
32411002	N/A	Deck Assy, 60" x 86" B.E. (Break Even) w/ Bottom Stops
32411003	85803705	Deck Assy, 72" x 86" B.E. (Break Even)
32411004	N/A	Deck Assy, 72" x 86" B.E. (Break Even) w/ Bottom Stops
32411005	85803638	Deck Assy, 60" x 86" + 15" (Break Even)
32411006	N/A	Deck Assy, 60" x 86" + 15" (Break Even) w/ Bottom Stops
32411007	85803110	Deck Assy, 42" x 86" (Break Even)
32411008	N/A	Deck Assy, 42" x 86" (Break Even) w/ Bottom Stops

4. New Deck Extensions cannot be used for old.

New P/N	Old P/N	Description
31418001	85803774	Deck Extension Assy Complete, 60" x 80" B.E. (Break Even)

New P/N	Old P/N	Description
31418002	85803703	Deck Extension Assy Complete, 72" x 80" B.E. (Break Even)
31418003	85803632	Deck Extension Assy Complete, 60" x 80" + 15" (Break Even)
31418004	85803635	Deck Extension Assy Complete, 60" x 80" + 15" C.S. (Break Even)
31418005	85803159	Deck Extension Assy Complete, 72" x 80" + 15" (Break Even)
31418006	85803189	Deck Extension Assy Complete, 72" x 80" + 15" C.S. (Break Even)
31418007	85803166	Deck Extension Assy Complete, 86" x 80" B.E. (Break Even)
32418001	85803627	Deck Extension Assy Complete, 60" x 86" B.E. (Break Even)
32418002	85803706	Deck Extension Assy Complete, 72" x 86" B.E. (Break Even)
32418003	85803639	Deck Extension Assy Complete, 60" x 86" + 15" (Break Even)
32418004	85803642	Deck Extension Assy Complete, 60" x 86" + 15" C.S. (Break Even)
32418005	85803109	Deck Extension Assy Complete, 72" x 86" + 15" (Break Even)
32418006	85803431	Deck Extension Assy Complete, 72" x 86" + 15" C.S. (Break Even)
32418007	85803499	Deck Extension Assy Complete, 86" x 86" B.E. (Break Even)

5. New Extension Hinge Pins (37417501) cannot be used for old (85803105)
6. All new Wiring Harnesses cannot be used for old.

New P/N	Old P/N	Description
31491802	31491801	Motor Wiring Harness (Note: 31491801 is still used for Auxiliary Motor on Dual Pump units.
31491902	85803919	Control Wiring Harness
31493402	85803917	Inside Control Cable (Old cable was sold as an Assembly only)
31494601	85803946	Trailer Extension Harness

7. All new Hydraulic Hoses and Steel Hydraulic Lines cannot be used for old.

New P/N	Old P/N	Description
31493301	85803813	Fluid Line Assembly
75083092	85803812	Lift Cylinder Hose
75083093	85803917	Closer Cylinder Hose (Old cable was sold as an Assembly only)

**E. Old Parts that will not work for new:**

1. Old Runner Cover Plates will not work for new (see New Will not work for Old for Part numbers).
2. Old Main Deck Pins (85803129) cannot be used for new liftgates.
3. Old Runner Assemblies cannot be used for new liftgates (See New Will work for old with Additional Parts and Rework for part numbers.
4. Old Hydraulic Hoses and Steel Hydraulic Lines cannot be used on new liftgates (see New Will not work for Old for Part numbers).
5. Old Wiring Harnesses cannot be used on new liftgates (see New Will not work for Old for Part numbers).



# WALTCO TECH TIPS

Date: 3/12/00  
No. TT000044  
Model: WDL  
EO No. N/A

## SUBJECT:

Proper bleeding procedure for the WDL RM series liftgates equipped with dual pumps.

The following bleeding procedure **must** be followed to assure that all air is removed from the Lift Cylinders on a WDL RM with dual pumps. If this procedure is not followed, air may remain trapped in the cylinders and wet lines, which will cause the erratic operation of the Flow Divider Valve and the Platform to raise unevenly. It is highly recommended that before attempting to adjust Flow Divider Valve, the system should be bled.

- Open the Platform and lower it to the ground.
- Check the oil level in the Hydraulic Reservoir. With the Platform open and lowered to the ground, the oil level should be with 1/2 inch of the top of the Reservoir. Add oil as may be required.
- Place the Motor Selector Switch in the “Auxiliary” position.
- Using the Hand Held Control, press the “Raise” button and raise the Platform at least 12” from the ground.
- Move the Motor Selector Switch to the “Primary” position.
- Proceed with bleeding the cylinders as explained in steps A (1 – 6) as covered in the “Bleeding the Cylinders” chapter in the Owner’s Manual and Installation Instructions.



# WALTCO TECH TIPS

Date: 11-8-2000  
No. TT000050  
Model: WDL/WDLBG RM  
EO No. Ref 4066

SUBJECT: WDL/ WDLBG RM “new” pump and enclosure features with Power Kit Options.

New Features:

## All Pump configurations

- Improved hydraulic fittings and hose fittings, instead of older-style pipe-thread fittings. The new JIC fittings and hose fittings provide improved sealing.
- Redesigned to use fewer fittings and hoses. This reduces the number of potential leak points.
- New bulkhead fittings now make it easier to connect the hoses by allowing the connections to be made on the outside of the hydraulic enclosure, rather than the inside where it is more awkward to maneuver.
- The hydraulic reservoir now features an easy-to-access drain port that allows the oil to be drained through the bottom of the hydraulic enclosure. It is no longer necessary to remove the pump from the enclosure in order to drain the oil.
- Now feature decals that identify key pump components for easier troubleshooting.

## Dual Pump

- Now features a single electrical harness for easier maintenance and troubleshooting.

## Single Pump or Single Pump with Hand Pump

- Now features two manual release knobs. The knobs allow the liftgate operator to open or lower the liftgate manually, in case of electrical failure.

## Hand Pump Conversion Kit

- Now offer a new conversion kit that can be used to convert the single pump configuration liftgate to a single pump with auxiliary hand pump. The kit is easy to install with just a few bolts. This kit is not available on older pumps.

## Hydraulic Enclosures

- Have been redesigned to make it easier to gain access to the pump by simply pulling the cover off. This provides access to the pump from both the front and top.

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### NOTE:

The Power Kits listed in the following pages include all parts required to connect the WDL RM Hydraulics and Electrical Controls from the liftgate to the Hydraulic Pump in the Hydraulic Enclosure and also to connect to the vehicle power source.

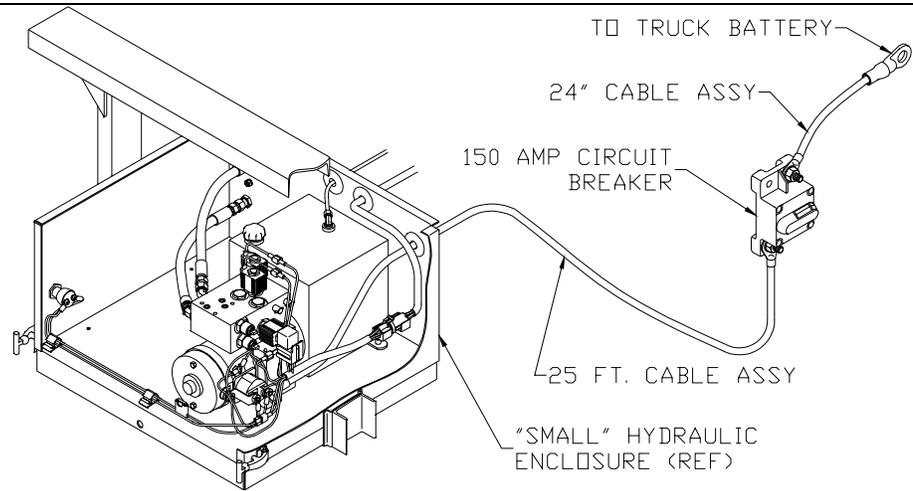
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## WDL/ WDLBG RM SERIES POWER OPTIONS (FOR TRUCKS)

### DIRECT POWER KIT (80000884) FOR ALL PUMPS with "Small" Hydraulic Enclosure", 22" w x 13" h x 20" d

Kit includes the following:

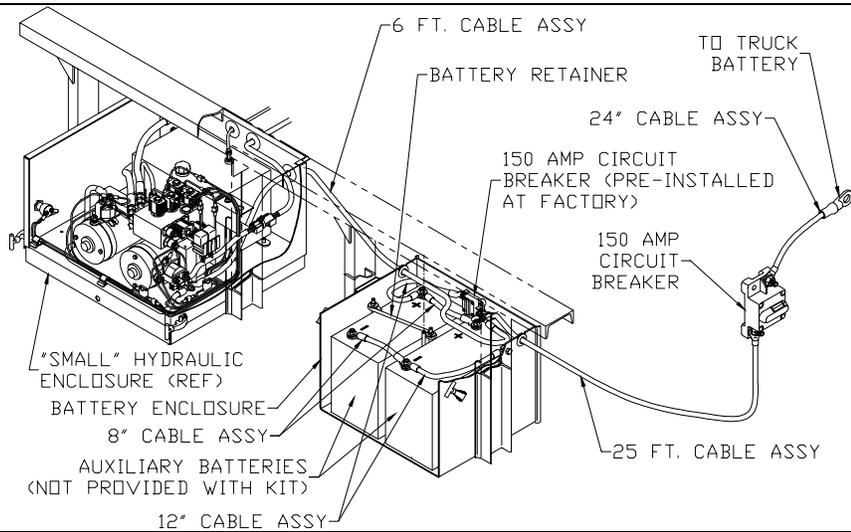
- One 25 ft. of 2 Ga. and one 24" 2 Ga. Battery Cable
- One 150 amp circuit breaker
- 5 ft. (Approx.) of hydraulic lines. Lines run from "Small Hydraulic Enclosure" to liftgate.



### AUXILIARY BATTERY KIT (80000882) FOR DUAL PUMP ONLY with "Small" Hydraulic Enclosure, 22" w x 13" h x 20" d

Kit includes the following:

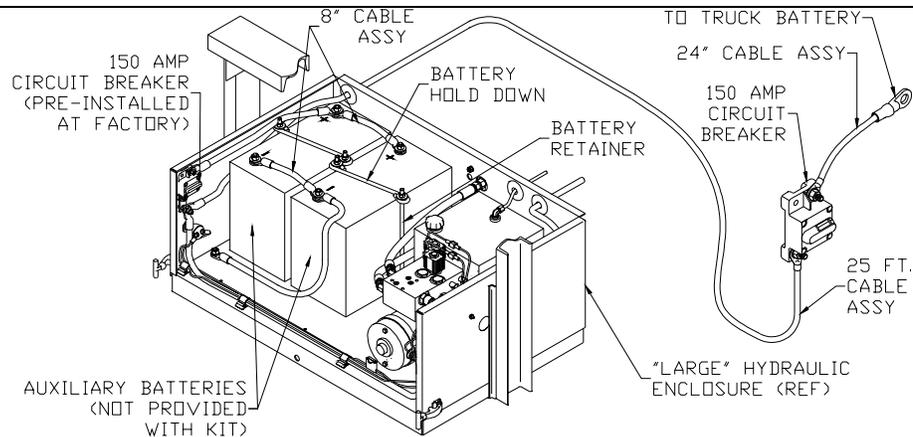
- Battery Enclosure, 17" w x 12" h x 14" d
- Two 8" 2 Ga., two 12" 2 Ga., one 24" 2 Ga., one 6 ft. 2 Ga., and 25 ft. 2 Ga. battery cables
- Two 150 amp circuit breaker
- Battery hold down brackets
- 5 ft. (Approx.) of hydraulic lines. Lines run from "Small" Hydraulic Enclosure to liftgate.



### AUXILIARY BATTERY KIT (80000881) FOR SINGLE PUMP AND SINGLE PUMP WITH HAND PUMP with "Large" Hydraulic Enclosure, 32" w x 13" h x 20" d

Kit includes the following:

- Two 8" 2 Ga., one 24" 2 Ga., and one 25 ft. 2 Ga. battery cables
- One 150 amp circuit breaker
- Battery hold down brackets
- 5ft. (Approx.) of hydraulic lines. Lines run from "Large" Hydraulic Enclosure to liftgate.



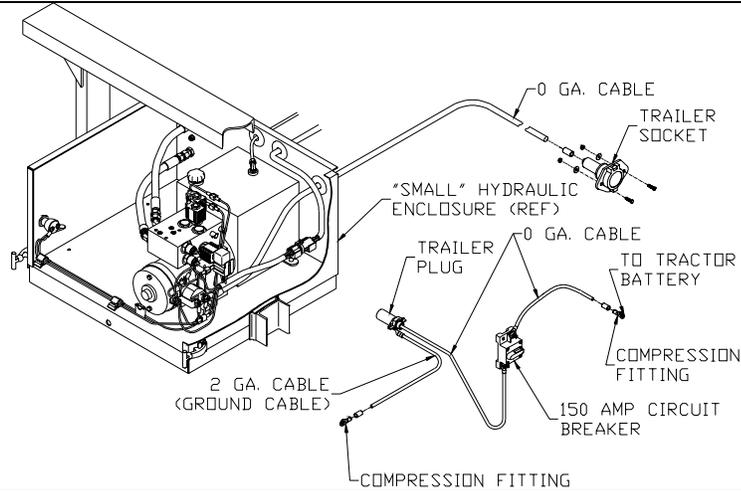
## WDL/ WDLBG RM SERIES POWER OPTIONS (FOR TRAILERS)

### DIRECT POWER KIT (80000883)

**FOR ALL PUMPS** with "Small" Hydraulic Enclosure, 22" w x 13" h x 20" d

Kit includes the following:

- One 64 ft. of 0 Ga., one 16 ft. of 0 Ga., and one 10 ft. of 2 Ga. battery cables
- One 150 amp circuit breaker
- Trailer Plug and Socket
- Wiring Harness Extension
- 31 ft. of hydraulic lines. Lines run from "Small" Hydraulic Enclosure to liftgate.

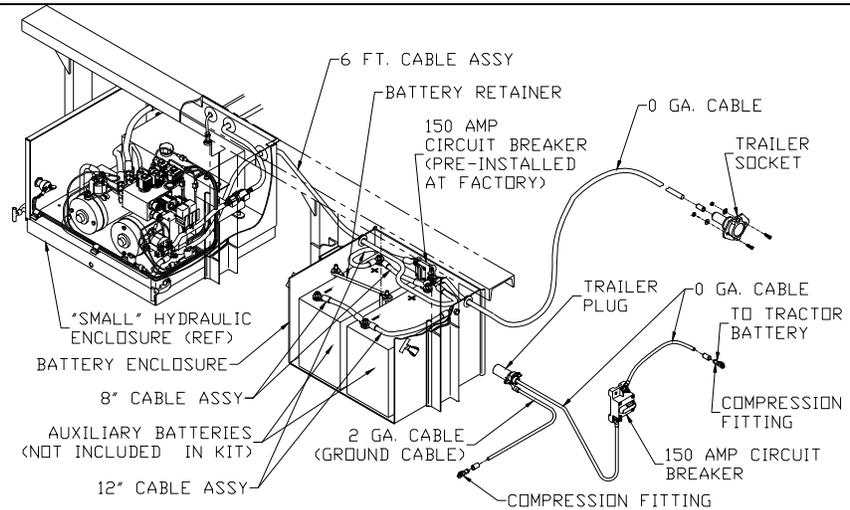


### AUXILIARY BATTERY KIT (80000880) FOR DUAL PUMP ONLY

with "Small" Hydraulic Enclosure, 22" w x 13" h x 20" d

Kit includes the following:

- Battery Enclosure, 17" w x 12" h x 14" d
- Two 8" 2 Ga., two 12" 2 Ga., one 6 ft. 2 Ga., one 10 ft. 2 Ga., one 64 ft. 0 Ga., and one 16 ft. 0 Ga. battery cables
- Trailer Plug and Socket
- Two 150 amp circuit breaker
- Battery hold down brackets
- Wiring Harness Extension
- 31 ft. of hydraulic lines. Lines run from "Small" Hydraulic Enclosure to liftgate.

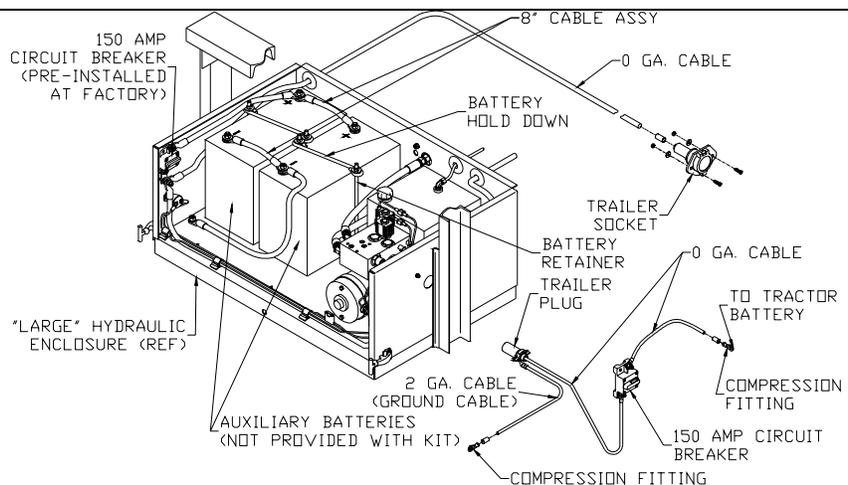


### AUXILIARY BATTERY KIT (80000879) FOR SINGLE PUMP AND SINGLE PUMP WITH HAND PUMP

with "Large" Hydraulic Enclosure, 32" w x 13" h x 20" d

Kit includes the following:

- One 64 ft. 0 Ga., one 16 ft. 0 Ga., and one 10 ft. 2 Ga. battery cables
- One 150 amp circuit breaker
- Trailer Plug and Socket
- Battery hold down brackets
- Wiring Harness Extension
- 31 ft. of hydraulic lines. Lines run from "Large" Hydraulic Enclosure to liftgate.





# WALTCO TECH TIPS

Date: 03-02-2001  
No. TT010063  
Model: WDL RM/WDLBG RM  
RGL/RBGL  
EO No: 4325

SUBJECT: WDL RM, WDLBG RM, RGL, RBGL Dual Pumps with Thermalpak™ w/ Voltage Guard™ wiring change and retro-fix

We have released an E.O. 4325 that address a problem we had with the interaction that occurs between the two (2) Thermalpak™ with Voltage Guard™ sensors on any WDL or RGL series liftgate equipped with a Dual Pump & Motor option.

**The “Old” problem that occurred before this change:**

When operating the liftgate with the Primary Pump unit, the Yellow Light on the Auxiliary Pump Motor will come on.

**What has been done to correct the problem (This is released on E.O. 4325):**

We have re-wired the red wire (power) on both the Primary and Auxiliary Thermalpak™ with Voltage Guard™ straight to the toggle switch. When the toggle switch is switched to the “Primary” position, the Auxiliary Thermalpak™ with Voltage Guard™ power is off. When the toggle switch is switched to the “Auxiliary” position, the Primary Thermalpak™ with Voltage Guard™ power is off.

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**IMPORTANT NOTE:**

When switching between pumps you must wait at least 10-15 seconds between switching from one pump to the other and then back to the original setting (i.e. If you switch from Primary Pump to Auxiliary Pump, you must wait 10-15 seconds before switching back to the Primary Pump). If you do not wait 10-15 seconds before switching back and forth between pumps the sensor will trip on the pump you have switched to. If this occurs, simply flip the toggle switch back to the previous setting, wait 10-15 seconds then switch it back.

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**What is actually happening when the “Old” problem occurred:**

To help understand what is happening, we need to step back a little and explain how the Voltage Guard Sensor works by itself. The Voltage sensor has two different thresholds (there is actually a third threshold, but it does not have any impact on the problem we are discussing) of low voltage which will trip the sensor and shut-off or disable the liftgate motor. The first is “running” voltage (the voltage the sensor reads when the liftgate motor is actually running), which is set to trip if voltage drops below 8.5 volts. The second is “standing” voltage (the voltage the sensor reads when the liftgate motor is not running), which is set to trip if voltage drops below 12 volts. **The batteries must always be charged back up to 13.3 volts to reset the sensor once it has tripped.**

Now, to explain why the sensor on the Auxiliary Motor trips when running the Primary Motor (or vice-versa):

When the Primary pump is running, the sensor on the Primary motor is looking at “running” voltage and will allow the motor to keep running unless battery voltage drops below 8.5 volts. The Auxiliary Pump Sensor however, is looking at “standing” voltage because it is not running. Since they both share the same power source and since it is normal for a 12-volt battery system to drop below 12 volts when operating a liftgate, the sensor on the Auxiliary Motor will trip. The important thing to note however, is that although the light on the Auxiliary Motor’s Voltage

Sensor will come on, the alarm will not sound and operation of the liftgate on the Primary Motor will not be interrupted in any way.

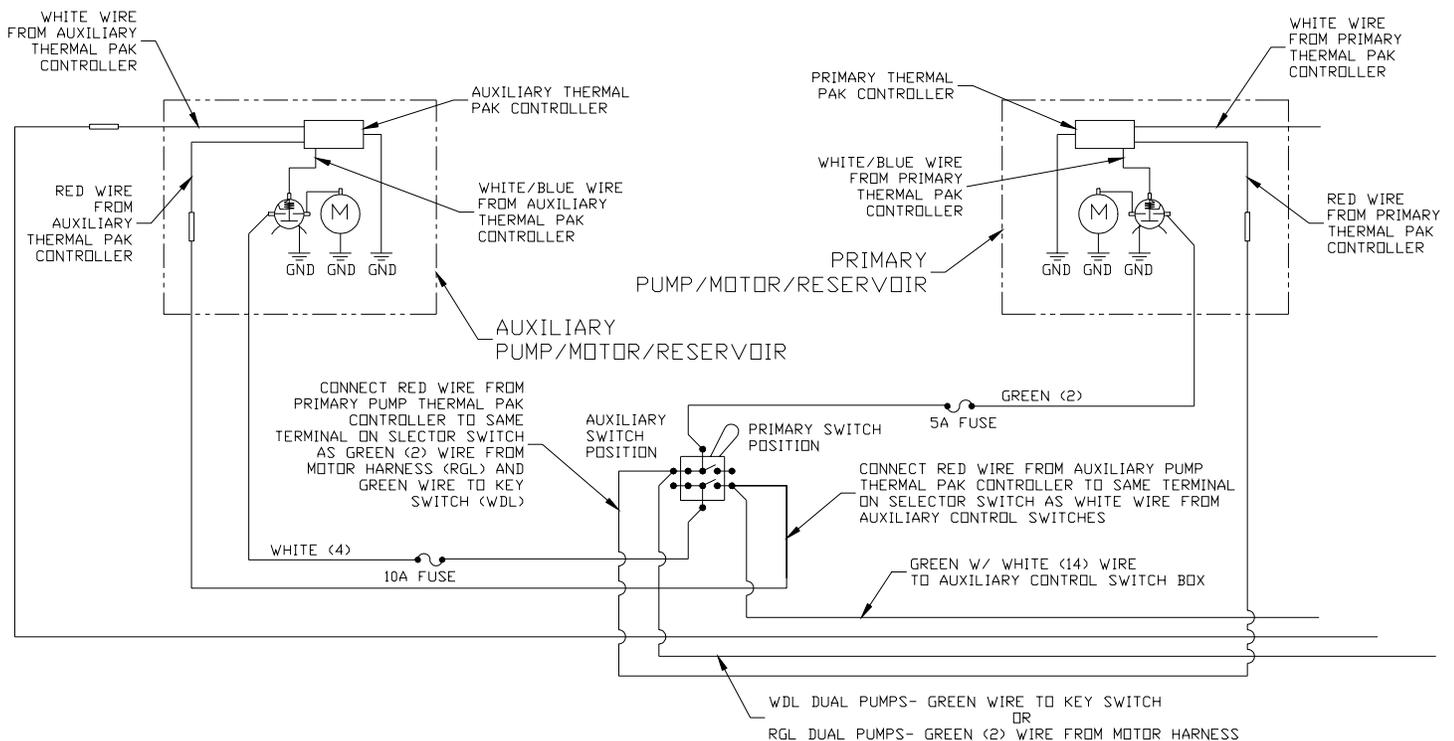
Now, once any of the voltage sensor trips (disables the motor), it is important to remember that the batteries must be recharged (by the vehicles charging system) to 13.3 volts before the sensor will reset itself.

Therefore, what should almost always occur, is that once you are done operating the liftgate and have started and run the vehicle for a period of time, the batteries will recharge to their normal level and the Auxiliary Motor sensor will automatically reset itself.

**How to Re-Wire the Pump to eliminate the “Old” problem:**

Re-wiring the Thermalpak™ with Voltage Guard™ as follows can eliminate the “Old” problem:

1. Disconnect Batteries.
2. Disconnect the Red Wire on each Thermalpak™ with Voltage Guard™ sensor.
3. Cut the “Ring terminal” of each Red Wire and splice on an extension wire (16 Ga. wire) long enough to reach to the “Selector” Switch (the toggle switch that switches the Primary Pump to the Auxiliary Pump).
4. Connect the wires to the appropriate terminals on the “Selector” Switch as shown in the wiring diagram below.
5. Re-connect Batteries.





# WALTCO TECH TIPS

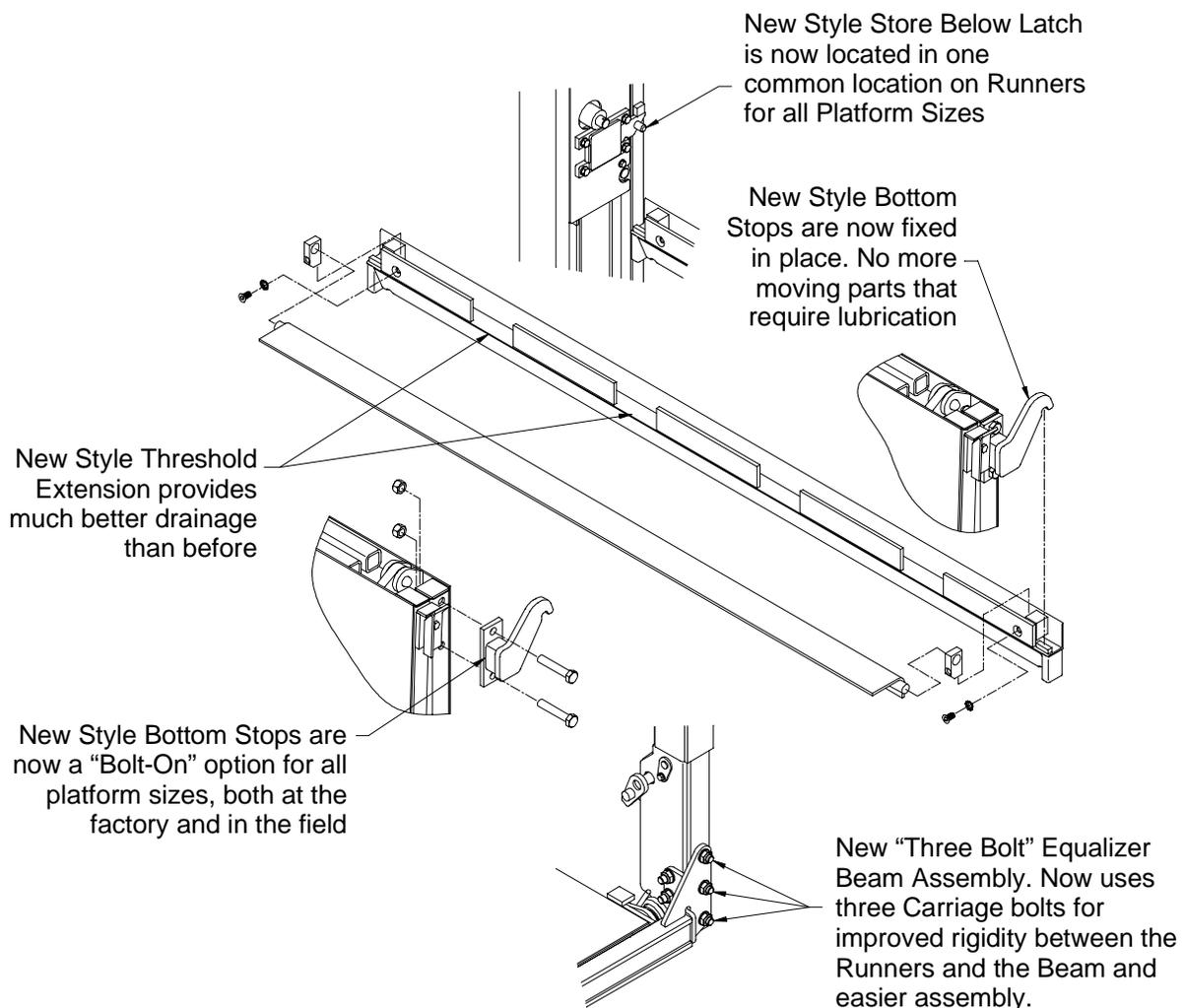
REV'D 03/21/03

Date: 11-2-2001  
No. TT010082  
Model: WDL  
EO No. 4088

## SUBJECT: New WDL RM Series Bottom Stops, Store Below, and Threshold Extension

We have released a new change to the WDL RM Series liftgate. This change releases new style Bottom Stop, Store Below, and Threshold Extension options. It also releases several miscellaneous product improvement changes to the WDL RM (and in the case of the Aluminum Ramps, the RGL as well). The change has been scheduled to go into effect on liftgates built on or after Jan. 11, 2002.

The New Bottom Stop and Store Below options are now line item kit options when ordering a WDL RM liftgate (All Zero Levels and 700 Assemblies specific to either Bottom Stops or Store Below are now obsolete).



**1. Bottom Stops:**

These have been completely redesigned to function much like the current RGL Series Bottom Stops. The Bottom Stops are now simple “Bolt-On” hooks with no moving parts that attach to the platform. All “H” frames built will be “Bottom Stop Ready” and all platforms built (except WDLBG) will have holes pre-drilled for attaching the new style Bottom Stop Hooks. The new Bottom Stops can be installed at the factory (kit # 80000973) or the field (kit # 80000974) on any liftgate that is built to the new design.

**2. Threshold Extension/Crossbeams:**

These have been redesigned to provide much better drainage and to be compatible with the New Style Bottom Stops.

**3. Store Below Bed Option:**

These have been redesigned to reduce the cost and simplify the design. The latch (located on the Runners) has been moved to a single common location for all platform sizes (used to be two different locations depending on platform size). The Store Below Option is now added by choosing from one of two factory only installed kits (80000975 for 60” BE Platforms and 80000976 for 60”+15” and 72” BE Platforms) when entering the order.

**4. Equalizer Beams/Runners:**

These have been redesigned to a “3 Bolt” design using Carriage bolts for the three bolts through the back side of the runners. This was done to improve rigidity between the Runners and Equalizer Beam to help reduce the amount of “Equalizer Beam Adjustments” that are often required in the field. Changing to the Carriage Bolts allows easier assembly/adjustment to the equalizer beam by not requiring a wrench to hold the bolt head when tightening these bolts.

**5. 16” Aluminum/12” Steel Folding Ramps (Both WDL and RGL):**

We have released new Retention Cables for all Aluminum and Steel Folding Ramps. The new cables are no longer welded to the platforms. They are now held to the platform with clevis pins. This allows the platforms to be powder coat painted without damaging the nylon cover on the cable when running the platforms through the baking ovens. It will also allow for simple replacement of cables that are damaged in the field.

**6. Runner Cover Plates:**

We have released new thinner runner cover plates (they were 3/16” thick, they are now going to be 1/8” thick) as a cost reduction.

The following pages detail all active WDL & WDLBG Zero Levels, 700 Assemblies and all standard options that now apply with the release of this change:

## WDL RM STANDARD & OPTIONS OUTLINE

The following tables indicate the component groups used by the WDL RM liftgates. One each of the items marked with an (\*) is required for a complete unit.

### \* WDL ZERO LEVELS

#### 96" REDUCED MAINTENANCE WITH NO THRESHOLD EXTENSION

DESCRIPTION	3500 CAP.	4500 CAP.	5500 CAP.	6600 CAP.
42" x 80" BE	03130405	03140405	03150405	03160405
60" x 80" BE/ Br-Ev	03130606	03140606	03150606	03160606
60" x 80"+15"/Br-Ev	03130656	03140656	03150656	03160656
60" x 80"+15"w/CS / Br-Ev	03130616	03140616	03150616	03160616
72" x 80" BE / Br-Ev	03130706	03140706	03150706	03160706
72" x 80"+15" / Br-Ev	03130756	03140756	03150756	03160756
72" x 80"+15" w/CS / Br-Ev	03130716	03140716	03150716	03160716
86" x 80" BE / Br-Ev	03130806	03140806	03150806	03160806

### \* WDL ZERO LEVELS (cont'd)

#### 96" REDUCED MAINTENANCE WITH THRESHOLD EXTENSION

DESCRIPTION	3500 CAP.	4500 CAP.	5500 CAP.	6600 CAP.
42" x 80" BE	03130406	03140406	03150406	03160406
60" x 80" BE/ Br-Ev	03130626	03140626	03150626	03160626
60" x 80"+15"/Br-Ev	03130636	03140636	03150636	03160636
60" x 80"+15"w/CS / Br-Ev	03130646	03140646	03150646	03160646
72" x 80" BE / Br-Ev	03130726	03140726	03150726	03160726
72" x 80"+15" / Br-Ev	03130736	03140736	03150736	03160736
72" x 80"+15" w/CS / Br-Ev	03130746	03140746	03150746	03160746
86" x 80" BE / Br-Ev	03130816	03140816	03150816	03160816

### \* WDL ZERO LEVELS (cont'd)

#### 102" REDUCED MAINTENANCE WITH NO THRESHOLD EXTENSION

DESCRIPTION	3500 CAP.	4500 CAP.	5500 CAP.	6600 CAP.
42" x 86" BE /Br-Ev	03230405	03240405	03250405	03260405
60" X 86" BE / Br-Ev	03230606	03240606	03250606	03260606
60" x 86"+15" / Br-Ev	03230656	03240656	03250656	03260656
60" x 86"+15"w/CS / Br Ev	03230616	03240616	03250616	03260616
72" x 86" BE / Br-Ev	03230706	03240706	03250706	03260706
72" x 86"+15" /Br-Ev	03230756	03240756	03250756	03260756
72" x 86"+15" w/CS / Br-Ev	03230716	03240716	03250716	03260716
86" x 86" BE / Br-Ev	03230806	03240806	03250806	03260806

NOTE: A ZERO Assembly consists of (1) Main Assembly Complete including a specific size Platform

**\*  
WDL ZERO LEVELS (cont'd)**

**102" REDUCED MAINTENANCE WITH THRESHOLD EXTENSION**

DESCRIPTION	3500 CAP.	4500 CAP.	5500 CAP.	6600 CAP.
42" x 86" BE	03230406	03240406	03250406	03260406
60" x 86" BE/ Br-Ev	03230626	03240626	03250626	03260626
60" x 86"+15"/Br-Ev	03230636	03240636	03250636	03260636
60" x 86"+15"w/CS / Br-Ev	03230646	03240646	03250646	03260646
72" x 86" BE / Br-Ev	03230726	03240726	03250726	03260726
72" x 86"+15" / Br-Ev	03230736	03240736	03250736	03260736
72" x 86"+15" w/CS / Br-Ev	03230746	03240746	03250746	03260746
86" x 86" BE / Br-Ev	03230816	03240816	03250816	03260816

NOTE: A ZERO Assembly consists of (1) Main Assembly Complete including a specific size Platform

**WDL RM Bottle Gas Lift Gate**

Description	WDLBG - 35	WDLBG - 40
	Zero Level No.	Zero Level No.
WDLBG RM (36" x 80" Fixed Retention)	03110370	03120370
WDLBG RM (42" x 80" Fixed Retention)	03110470	03120470
WDLBG RM (36" x 80" Fold Down Retention)	03110380	03120380
WDLBG RM (42" x 80" Fold Down Retention)	03110480	03120480
WDLBG RM (36" x 86" Fixed Retention)	03210370	03220370
WDLBG RM (42" x 86" Fixed Retention)	03210470	03220470
WDLBG RM (36" x 86" Fold Down Retention)	03210380	03220380
WDLBG RM (42" x 86" Fold Down Retention)	03210480	03220480

NOTE: 1) A ZERO Level Assembly consist of (1) Main Frame Assembly Complete including a specific size Platform Ass'y Complete and Retention Rails (Fixed or Fold Down).

- 2) The **Threshold Extension, Bottom Stops and Store Below options can not** be used with the Bottle Gas Lift Gate.

## WDL RM STANDARD COMPONENTS OUTLINE (cont'd)

### \* POWER BOXES

DESCRIPTION	WDLBG-RM All CAP.	WDL-RM All CAP.
Single Pump – Direct Power (Small Enclosure)	31290012	31390012
Single Pump – Aux Batteries (Large Enclosure)	31290013	31390013
Dual Pump – (Small Enclosure)	31290022	31390022
Single Pump W/ Hand Pump – Direct Power (Small Enclosure)	31290032	31390032
Single Pump W/ Hand Pump – Aux Batteries (Large Enclosure)	31290033	31390033

NOTE: The WDL Power Box contains all the standard parts that are required to complete the installation of a WDL including an Hydraulic Assembly, Owner's, etc, but does not include a Power Kit.

### HYDRAULIC ENCLOSURE ASSEMBLY (included in Power Box)

Single Pump – Direct Power (Small Enclosure)	31496503
Single Pump – Aux Batteries (Large Enclosure)	31496603
Dual Pump – (Small Enclosure)	31498503
Single Pump W/ Hand Pump – Direct Power (Small Enclosure)	31497503
Single Pump W/ Hand Pump – Aux Batteries (Large Enclosure)	31497603

NOTE: The Hydraulic Assembly is included in the Power Box and includes the Hydraulic Pump, Hydraulic Enclosure, Flow Divider Valve, Relay, and all hydraulic fittings required to connect to the Power Kit.

### POWER BOX & POWER KIT USAGE CHART (Which Power Boxes are used with which Power kits)

POWER BOXES	TRUCK POWER KITS	TRAILER POWER KITS
31290012, 31290022, 31290032, 31390012, 31390022, 31390022	80000884	80000883
31290013, 31290033, 31390013, 31390033	80000881	80000879
31290022, 31390022	80000882	80000880

**WDL RM STANDARD COMPONENTS OUTLINE (cont'd)****\* POWER KIT (See Note)****Packing List No.**

<b>WDL AUXILIARY BATTERY KIT FOR TRAILERS – SINGLE PUMP &amp; SINGLE PUMP W/ HAND PUMP</b> (Includes Tractor & Trailer Wiring Kits w/ 0 Ga. Charge wire, 150 amp breaker, tractor & trailer connector plug & socket. Also includes 186", Hydraulic Extension lines & Trailer Extension Harness)	80000879
<b>WDL AUXILIARY BATTERY KIT FOR TRAILERS – DUAL PUMP</b> (Includes Tractor & Trailer Wiring Kits w/ 0 Ga. Charge wire, 150 amp breaker, tractor & trailer connector plug & socket. Also includes 186", Hydraulic Extension lines & Trailer Extension Harness)	80000880
<b>WDL AUXILIARY BATTERY KIT FOR TRUCKS – SINGLE PUMP &amp; SINGLE PUMP W/ HAND PUMP</b> (Includes 2 Ga. battery cable, 150 amp breaker, Battery Hold Down Bracket & Basic Hydraulic lines)	80000881
<b>WDL AUXILIARY BATTERY KIT FOR TRUCKS – DUAL PUMP</b> (Includes 2 Ga. battery cable, 150 amp breaker, Battery Hold Down Bracket & Basic Hydraulic lines)	80000882
<b>WDL DIRECT POWER KIT FOR TRAILERS – ALL PUMPS</b> (Includes Direct Power Kit for Trailers, Tractor Wiring Kit w/ 0 Ga. direct wire, tractor & trailer connector plug & socket. Also includes 186", Hydraulic Extension lines & Trailer Extension Harness)	80000883
<b>WDL DIRECT POWER KIT FOR TRUCKS – ALL PUMPS</b> (Includes 2ga. battery cable, 150 amp breaker, & Basic Hydraulic lines)	80000884

NOTE: The Power Kit includes all parts required to connect the WDL Hydraulics and Electrical Controls from the liftgate to the Hydraulic Pump in the Hydraulic Enclosure and the connect to the vehicle power source (i.e.: the charge wire, battery cable, and circuit breakers.

**\* WDL HYDRAULIC ENCLOSURES**

Small Enclosure (For Single Pump & Single Pump w/ Hand Pump Direct Power And For All Dual Pumps)	31590001
Large Enclosure (For Single Pump & Single Pump w/ Hand Pump And Auxiliary Batteries Only)	31690001
Battery Enclosure (For Use With Dual Pumps And Auxiliary Batteries Only)	31592001

**WDL RM STANDARD COMPONENTS OUTLINE (cont'd)****WDL STANDARD OPTIONS**

16" Aluminum Folding Ramp 96" Wide	31415001
16" Aluminum Folding Ramp 102" Wide	32415001
16" Single PC. Alum. Folding 96" Wide (Not Available W/ Threshold Extension)	31315001
16" Single PC. Alum. Folding 102" Wide (Not Available W/ Threshold Extension)	32315001
12" Steel Folding Ramp 96" Wide	31417001
12" Steel Folding Ramp 102" Wide	32417001
12" Single PC. Steel Folding 96" Wide (Not Available W/ Threshold Extension)	31317001
12" Single PC. Steel Folding 102" Wide (Not Available W/ Threshold Extension)	32317001
6" Fixed Ramp (80" Wide Platform)	31416001
6" Fixed Ramp (86" Wide Platform)	32416001
Swing Door Kit 102" Wide	80000586
Header Kit 102" Wide	80000588
Hand Held Remote Control	80000589
Bottom Stop Kit (Field Installation)	80000974
Bottom Stop Kit (Factory Installed)	80000973
Threshold Extension	See "Zero Level"
Store Below Kit, 60" BE, (Factory Installed)	80000975
Store Below Kit, 60"+15" & 72" BE, (Factory Installed)	80000976

**SEAL KITS**

CYLINDER	KIT NUMBER
Lift	32680095
Closure	32480095

## WDL RM STANDARD COMPONENTS OUTLINE (cont'd)

The following tables indicate the component groups used by the WDL RM liftgates.

### 700 LEVELS (96" WIDE WDL RM MAIN FRAME ASSEMBLY COMPLETE)

NO THRESHOLD EXTENSION		WITH THRESHOLD EXTENSION	
DESCRIPTION	ALL CAPACITIES	DESCRIPTION	ALL CAPACITIES
42 X 80 BE	31470140	42 X 80 BE	31470101
60 X 80 BE / Br-Ev	31470162	60 X 80 BE / Br-Ev	31470102
60 X 80+15 / Br-Ev	31470166	60 X 80+15 / Br-Ev	31470105
60 X 80+15 w/ CS / Br-Ev	31470169	60 X 80+15 w/ CS / Br-Ev	31470108
72 x 80 BE / Br-Ev	31470173	72 x 80 BE / Br-Ev	31470111
72 X 80+15 w/ CS / Br-Ev	31470183	72 X 80+15 w/ CS / Br-Ev	31470116
86 X 80 BE / Br-Ev	31470184	86 X 80 BE / Br-Ev	31470118

### 700 LEVELS (102" WIDE WDL RM MAIN FRAME ASSEMBLY COMPLETE)

NO THRESHOLD EXTENSION		WITH THRESHOLD EXTENSION	
DESCRIPTION	ALL CAPACITIES	DESCRIPTION	ALL CAPACITIES.
42 X 86 BE	32470140	42 X 86 BE	32470101
60 X 86 BE / Br-Ev	32470162	60 X 86 BE / Br-Ev	32470102
60 X 86+15 / Br-Ev	32470166	60 X 86+15 / Br-Ev	32470105
60 X 86+15 w/ CS / Br-Ev	32470169	60 X 86+15 w/ CS / Br-Ev	32470108
72 x 86 BE / Br-Ev	32470173	72 x 86 BE / Br-Ev	32470111
72 X 86+15 / Br-Ev	32470182	72 X 86+15 / Br-Ev	32470114
72 X 86+15 w/ CS / Br-Ev	32470183	72 X 86+15 w/ CS / Br-Ev	32470116
86 X 86 BE / Br-Ev	32470184	86 X 86 BE / Br-Ev	32470118

### 700 LEVELS WDLBG RM MAIN FRAME ASSEMBLY COMPLETE

DESCRIPTION	ALL CAPACITIES	
	FIXED RETENTION	FOLD DOWN RETENTION
36" x 80"	31270137	31270138
42" x 80"	31270147	31270148
36" x 86"	32270137	32270138
42" x 86"	32270147	32270148

Note: A 701 Assembly consists of (1) each of the following

- Main Frame Ass'y
- Equalizer Beam Ass'y
- Main Frame Ass'y, Parts
- Platform Ass'y Complete`
- Platform Support Linkage Group (Chain or Bar)

## WDL RM STANDARD COMPONENTS OUTLINE (cont'd)

### WDL Main Frame Ass'y, Parts

DESCRIPTION	
For 1 PC. Deck	31470201
For 2 PC. Deck	31470202

Note; A Main Frame Ass'y, Parts consist of the following major parts;

- Runner Ass'ys, Roller Ass'ys, Roller Pins, & Wear Pads
- Lift Cylinders, Pins, Flow Control Valves, Fluid Line Ass'ys, Hoses & Hydraulic Fittings
- Closer Cylinder, Pins, Hoses, Hose Guard, & Hydraulic Fittings
- Inner, Outer Closer & Street side Hubs & Deck Pins
- Transit Latches (parts)
- Control Switches, Wiring Harness & Inside Control Cable
- Misc. Hardware items to assemble the above.

Note: A Main Frame Assembly Parts consists of all of the parts required to assemble a WDL Main Frame Assembly Complete less the following:

- Platform Ass'y Complete
  - Linkage Ass'y (Chain or Bar)
  - Roller Guard Covers
- Δ All parts below this level are at the 85803XXX or 31XXXXXX level.

### WDLBG RM Main Frame Ass'y, Parts

DESCRIPTION	ALL CAPACITIES
Main Frame Ass'y, 96" wide	31270290
Main Frame Ass'y, 102" wide	32270290

Note; A Main Frame Ass'y consist of the following major parts;

- Runner Ass'ys, Roller Ass'ys, Roller Pins, & Wear Pads
- Roller Guard Covers
- Lift Cylinders, Pins, Flow Control Valves, Fluid Line Ass'ys, Hoses & Hydraulic Fittings
- Closer Cylinder, Pins, Hoses, Hose Guard, & Hydraulic Fittings
- Inner, Outer Closer & Street side Hubs & Deck Pins
- Transit Latches (parts)
- Control Switches, Wiring Harness & Inside Control Cable
- Misc. Hardware items to assemble the above.
- Platform Support Linkage

Note: A Main Frame Assembly consists of all of the parts required to assemble a WDL Main Frame Assembly Complete less the following:

- Platform Ass'y Complete
  - Linkage Ass'y (Bar)
- Δ All parts below this level are at the 85803XXX or 31XXXXXX level.



# WALTCO TECH TIPS

REV'D 03/21/03

Date: 11-2-2001  
No. TT010083  
Model: WDL  
EO No. 4088

## **SUBJECT: New WDL RM Series Bottom Stops, Store Below, and Threshold Extension**

We have released a new change to the WDL RM Series liftgate. This change releases new style Bottom Stop, Store Below, and Threshold Extension options. It also releases several miscellaneous product improvement changes to the WDL RM (and in the case of the Aluminum Ramps, the RGL as well). The change has been scheduled to go into effect on liftgates built on or after Jan. 11, 2002. Please refer to Tech Tip TT010082 for a more detailed description of the change.

The following explains all service part replacement issues that will arise as a result of this change. Note that the following information applies only to Service Parts issues for Reduced Maintenance liftgates. For information on using any of these new parts and assemblies on Pre-RM WDL Liftgates please contact Engineering. This Tech Tip does not supercede Tech Tip TT990028.

For information regarding converting a liftgate from old style Bottom Stops and/or Threshold Extensions to the new style please contact the Engineering department.

### **EFFECT ON SERVICE PARTS:**

#### **A. New will work for old – no rework or additional parts required:**

1. New Equalizer Beams (see below) can be used for old. The new third hole would not be used when putting a new beam onto an old liftgate.

<b>New Part No.</b>	<b>Old Part No.</b>	<b>Description</b>
31365001	85803386	Equalizer beam Assy, 96"
31465001	85803755	Equalizer beam Assy, 96" w/ Threshold Extension
32365001	85803301	Equalizer beam Assy, 102"
32465001	85803734	Equalizer beam Assy, 102" w/ Threshold Extension

2. New Platform Assemblies Complete can replace old Platforms without Bottom Stops as follows:

<b>New Part No.</b>	<b>Old Part No.</b>	<b>Description</b>
31410001	31410001	Platform Assy Complete, 60 x 80 BE
31410003	31410003	Platform Assy Complete, 72 x 80 BE
31410005	31410005	Platform Assy Complete, 60 x 80 + 15
31410007	31410007	Platform Assy Complete, 60 x 80 + 15 w/ CS
31410009	31410009	Platform Assy Complete, 72 x 80 + 15
31410011	31410011	Platform Assy Complete, 72 x 80 + 15 w/ CS
31410013	31410013	Platform Assy Complete, 86 x 80 BE

<b>New Part No.</b>	<b>Old Part No.</b>	<b>Description</b>
32410001	32410001	Platform Assy Complete, 60 x 86 BE
32410003	32410003	Platform Assy Complete, 72 x 86 BE
32410005	32410005	Platform Assy Complete, 60 x 86 + 15
32410007	32410007	Platform Assy Complete, 60 x 86 + 15 w/ CS
32410009	32410009	Platform Assy Complete, 72 x 86 + 15
32410011	32410011	Platform Assy Complete, 72 x 86 + 15 w/ CS
32410013	32410013	Platform Assy Complete, 86 x 86 BE

3. New Store Below Lock Bar Assemblies can be used for old.

<b>New Part No.</b>	<b>Old Part No.</b>	<b>Description</b>
31457501	85803575	Store Below Lock Bar Assembly, Curb Side
31457551	85803576	Store Below Lock Bar Assembly, Street Side

**B. New will work for old - no rework but additional parts are required:**

1. Some New Runner Assemblies can replace old Runner Assemblies but new Equalizer Beam Bolts & Nuts ((2) 75087500 Carriage Bolts and (2) 75085199 Locknuts) must also be supplied for each runner.

<b>New Part No.</b>	<b>Old Part No.</b>	<b>Description</b>
31230001	31230001	Runner Assy Complete, Curb Side, Bottled Gas
31230051	31230051	Runner Assy Complete, Street Side, Bottled Gas
31330001	31330001	Runner Assy Complete, Curb Side, 1 Piece Platforms
31330051	31330051	Runner Assy Complete, Street Side, 1 Piece Platforms
31430001	31430001	Runner Assy Complete, Curb Side, 2 Piece Platforms
31430051	31430051	Runner Assy Complete, Street Side, 2 Piece Platforms

**C. New will work for old - but rework and additional parts are required:**

1. New Platform Assemblies Complete can replace old Platforms with Bottom Stops but the old (now service) Bottom Stop Pin Assemblies (85803561) will have to be added to each side of the platform in order to work with old liftgates with old style bottom stops.

<b>New Part No.</b>	<b>Old Part No.</b>	<b>Description</b>
31410001	31410002	Platform Assy Complete, 60 x 80 BE w/ Bottom Stops
31410003	31410004	Platform Assy Complete, 72 x 80 BE w/ Bottom Stops
31410005	31410006	Platform Assy Complete, 60 x 80 + 15 w/ Bottom Stops
31410007	31410008	Platform Assy Complete, 60 x 80 + 15 w/ CS w/ Bottom Stops
31410009	31410010	Platform Assy Complete, 72 x 80 + 15 w/ Bottom Stops
31410011	31410012	Platform Assy Complete, 72 x 80 + 15 w/ CS w/ Bottom

<b>New Part No.</b>	<b>Old Part No.</b>	<b>Description</b>
		Stops
31410013	31410014	Platform Assy Complete, 86 x 80 BE w/ Bottom Stops
32410001	32410002	Platform Assy Complete, 60 x 86 BE w/ Bottom Stops
32410003	32410004	Platform Assy Complete, 72 x 86 BE w/ Bottom Stops
32410005	32410006	Platform Assy Complete, 60 x 86 + 15 w/ Bottom Stops
32410007	32410008	Platform Assy Complete, 60 x 86 + 15 w/ CS w/ Bottom Stops
32410009	32410010	Platform Assy Complete, 72 x 86 + 15 w/ Bottom Stops
32410011	32410012	Platform Assy Complete, 72 x 86 + 15 w/ CS w/ Bottom Stops
32410013	32410014	Platform Assy Complete, 86 x 86 BE w/ Bottom Stops

2. Old Bottom Stop runners can be made from new two piece platform runners by adding part 85803564 to the runner as shown on the old service runner drawing.

<b>New Part No.</b>	<b>Old Part No.</b>	<b>Description</b>
31430001	31530001	Runner Assy Complete, Curb Side, Bottled Gas
31430051	31530051	Runner Assy Complete, Street Side, Bottled Gas

3. New Style Bottom Stops and/or Threshold Extensions can be retrofitted onto existing liftgates, however it is very involved to do so. Contact Engineering for more information if this is necessary.
4. New Style Aluminum/Steel Folding Ramp retention cables (37419502) can be used for old if they include (2) 37419701, (1) 27310303, and (1) 75084053 for each cable and a copy of the appropriate Ramp Installation Drawing to provide welding and locating instructions.

#### **D. New will not work for old:**

1. New Store Below Lock housings (31457001) cannot be used for old liftgates.
2. New Store Below Runners (32430002 and 32430052) cannot be used for old.
3. New Store Below Runner Cover Plates (32437502 & 32437552) cannot be used for old.

#### **E. Old will not work for new:**

1. Old Bottom Stop components cannot be used for new.
2. Old Store Below Lock components cannot be used for new.

## Liftgate Model: WDL

### Issue: Liftgate Platform does not raise and lower evenly

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There are three primary reasons why a WDL Liftgate Platform will not raise (or lower) evenly when the Platform is empty (no load). They are:

1. The Equalizer Beam and Runners are misaligned
2. There is air in the Hydraulic System
3. The Flow Divider Valve is either out of adjustment or contaminated

**Note:** On new installations, before checking any of the above items, make certain that the Uprights are square to each other and to the vehicle.

### Troubleshooting Guide:

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Issue	Possible Cause	Correction
New or existing installation. Platform has never raised evenly. One side leaves the ground before the other.	Air in Hydraulic System.	Refer to “ <b>How to Bleed Air from the System</b> ” section in this document or in the Owner’s Manual for the liftgate.
	Equalizer Beam and Runners are misaligned.	Refer to “ <b>How to Inspect for Misalignment between Runners and Uprights</b> ” section in this document.
New or existing installation. Platform has never raised evenly, but both sides leave the ground at the same time.	Improperly adjusted Flow Divider Valve (on liftgates equipped with an adjustable Flow Divider Valve).	Adjust Flow Divider Valve. Refer to “ <b>How to Adjust Flow Divider Valve</b> ” section of this document or in the Owner’s Manual for the liftgate.
	Contamination in Flow Divider Valve.	Disassemble and clean valve or replace with new valve.
New or existing installation. Platform raises or lowers unevenly, but in an erratic manner. The liftgate may raise or lower on one side faster than the other during one cycle, and on the other side during the next cycle. Or, the liftgate may raise or lower evenly for some cycles, then go back to raising or lowering unevenly.	Contamination in Flow Divider Valve.	Disassemble and clean valve or replace with new valve.

# WDL Liftgate not Raising or Lowering evenly

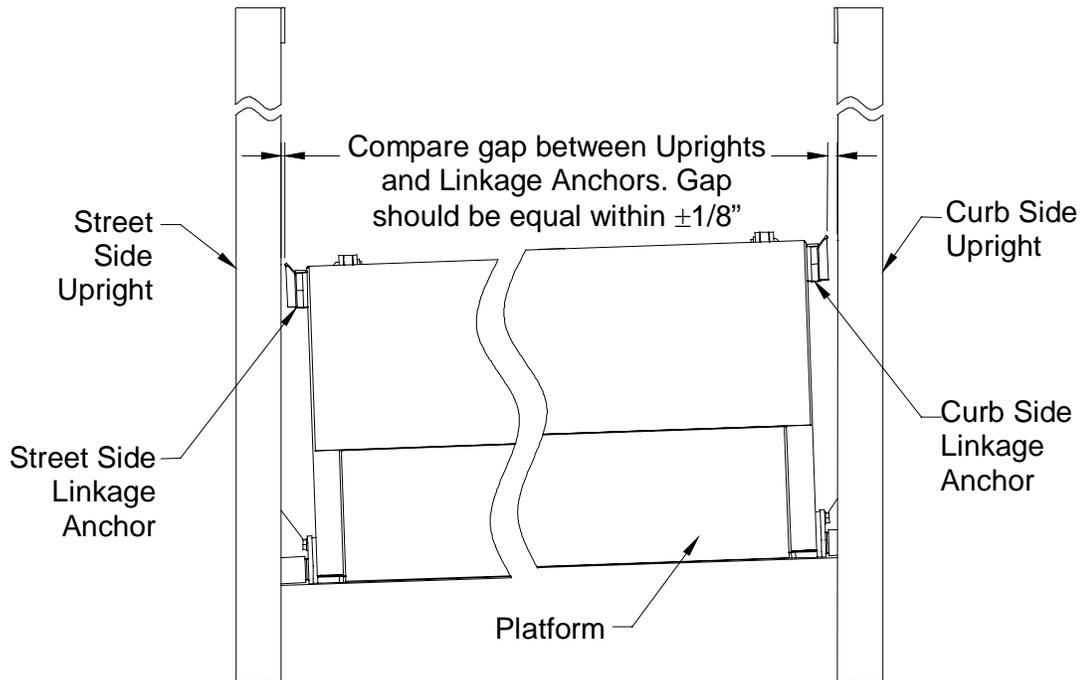
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Issue	Possible Cause	Correction
Existing installation. Platform previously raised and lowered evenly. Now, one side leaves the ground before the other.	Equalizer Beam and Runners are misaligned.	Refer to “ <b>How to Inspect for Misalignment between Runners and Uprights</b> ” section in this document.
	Air in Hydraulic System.	Refer to “ <b>How to Bleed Air from the System</b> ” section in this document or in the Owner’s Manual for the liftgate.
Existing installation. Platform previously raised and lowered evenly. Now, both sides leave the ground at the same time, but one side reaches bed level before the other.	Improperly adjusted Flow Divider Valve (on liftgates equipped with an adjustable Flow Divider Valve).	Adjust Flow Divider Valve. Refer to “ <b>How to Adjust Flow Divider Valve</b> ” section of this document or in the Owner’s Manual for the liftgate.
	Contamination in Flow Divider Valve.	Disassemble and clean valve or replace with new valve.
Existing installation. Liftgate appears to bind or slow down as the Platform lowers. One side or the other appears to hang up as the Platform nears the ground.	The lower portion of one or both Uprights may be deformed as a result of repeated impact with loading docks. This causes the Runner Wear Pads to bind in the Uprights.	Refer to “ <b>How to Check for Proper Wear Pad Clearance</b> ” section of this document.

# WDL Liftgate not Raising or Lowering evenly

## How to Inspect for Misalignment between Runners and Equalizer Beam:

1. Raise the Platform, in the open unfolded position, to bed level. Be sure both sides are resting fully against the Upstops. (It's okay if the platform does not raise evenly at this point. This will be resolved after all adjustments are made). Fold the platform to the transit position.
2. Visually inspect the distance between the Linkage Anchors on the sides of the Platform and the Uprights, as shown below. Inspect both the Street Side and Curb Side.

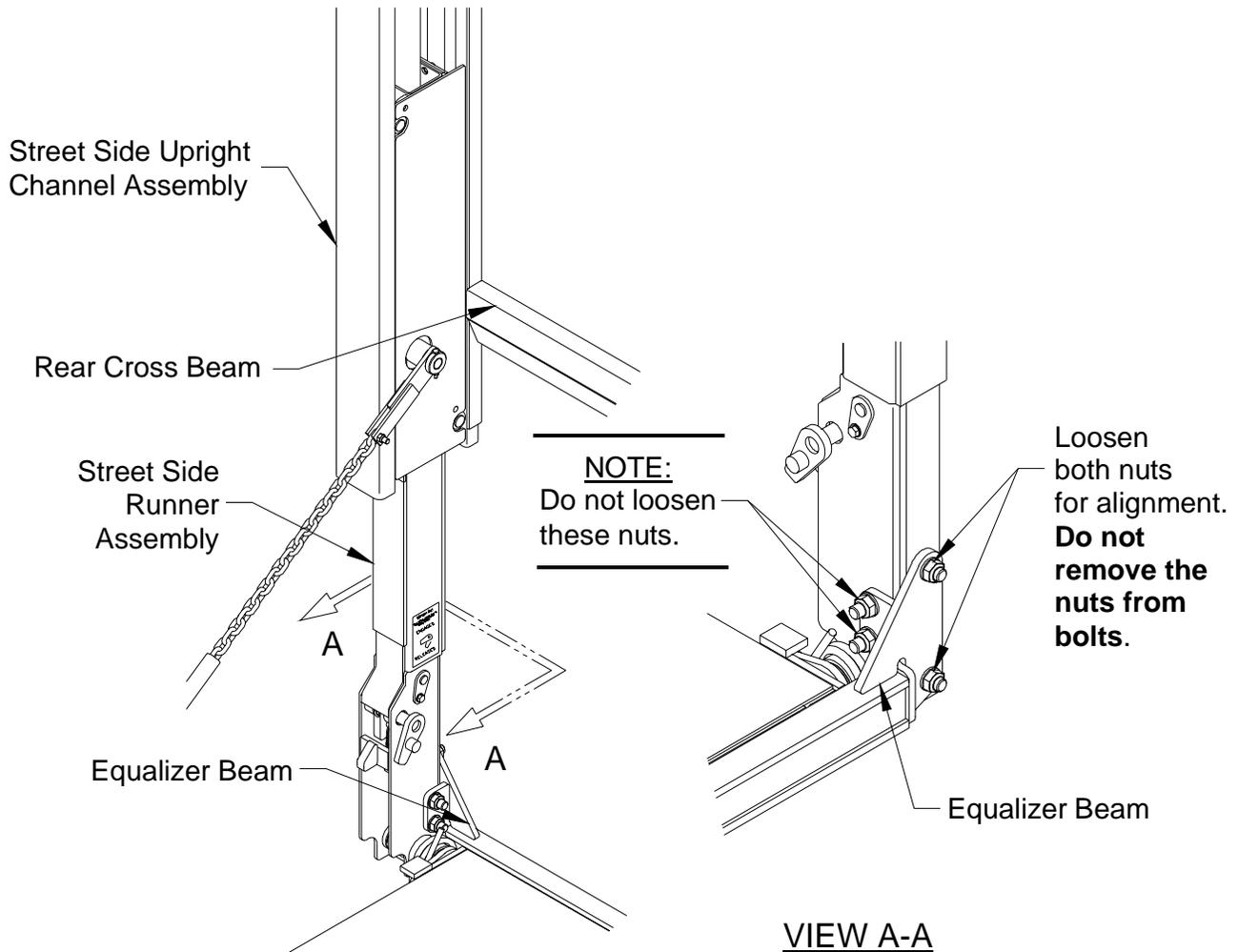


3. Compare the gap between the Uprights and the Linkage Anchors. If the gaps are equal to within  $1/8$ " of each other, then no adjustment is required. If the gaps vary by more than  $1/8$ ", the Equalizer Beam will have to be realigned according to the procedures below. Make a note of which side (curb or street) has the larger gap between the Linkage Anchor and the Upright. This will be considered the "High Side" for the purpose of adjustment later in this document.

# WDL Liftgate not Raising or Lowering evenly

## How to Prepare for Aligning the Runners to the Equalizer Beam:

1. You will need a 4" x 4" piece of wood, or similar material, cut to 24"-30" long.
2. Loosen the bolts on the Street Side Runner:
  - A. Lower the Platform to the ground.
  - B. Loosen only the two (2) 3/4"-16 Locknuts on the Street Side Runner as shown below. **Do not remove the two (2) Locknuts from Bolts.**

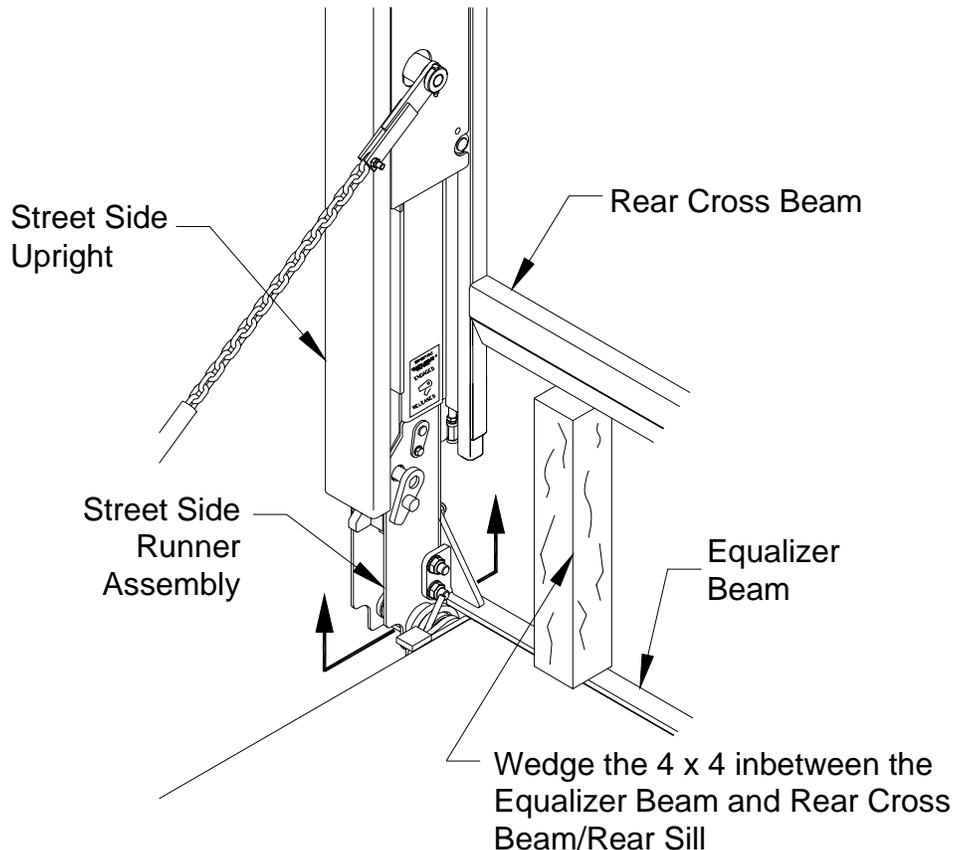


# WDL Liftgate not Raising or Lowering evenly

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## How to Align the Runners Square to the Equalizer Beam:

1. Position the 4" x 4" in-between the Equalizer Beam and Rear Cross Beam/Rear Sill on the side of the liftgate that is the "High Side" (see "**How to Inspect for Misalignment between Runners and Equalizer Beam**", Step 3, earlier in this document) as close to the runner as possible. Raise the Platform until the 4" x 4" is wedged firmly into position as shown below. Continue to raise the curb side of the Platform approximately 2" to 3".



2. With the 4" x 4" firmly locked into place, torque the two (2) 3/4"-16 Locknuts on the Curb Side Runner to 190-200 ft-lb.
3. Lower the Platform to remove the 4" x 4". Continue lowering the Platform to the ground until both sides hit ground.
3. Raise liftgate to bed level and fold platform. Examine gaps between Linkage Anchors and Uprights again as described in the "**How to Inspect for Misalignment between Runners and Equalizer Beam**" section of this document and repeat this adjustment as required until gaps are equal within 1/8".

# WDL Liftgate not Raising or Lowering evenly

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## How to Bleed air from the Hydraulic System:

Air in the Hydraulic System can cause the WDL Liftgate Platform to raise and lower unevenly. Air can leak into the Hydraulic System anytime the system undergoes maintenance, for instance when the pumps, cylinders or valves are replaced.

The WDL Series Liftgate has undergone several re-designs over the years. The procedures for bleeding air out of the Hydraulic System depend on which liftgate design you have. Refer to the appropriate section below for proper procedures based on the manufacture date of the liftgate.

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### NEW INSTALLATIONS ONLY:

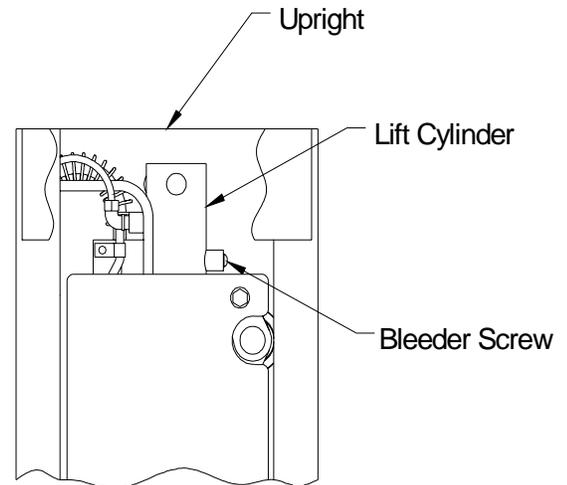
**It is very important that the Hydraulic Hoses running from the pump to the liftgate be “primed” with oil prior to connecting them to the fittings at the bottom of the uprights. Not doing so will push the entire hose length’s worth of air into the cylinders. If lines have not been primed, they should be disconnected at the bottom of the Uprights (with the liftgate on the ground) and “primed” as explained in the Installation Instructions chapter titled: “Connecting Hydraulic Lines to the Liftgate” before you attempt to bleed the system.**

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### Bleeding procedures for WDL Liftgates built after October 1998:

WDL liftgates built on or after October 1998 must be bled according to the following procedures. If your liftgate was built before October 1998, refer to the bleeding procedures described in the previous section of this document.

1. With the Platform open, raise it to approximately 6" below bed level.
2. Starting with the street side Lift Cylinder, locate the Bleeder Port on the side of the Lift Cylinder near the top. With a 5/32" size Allen wrench, loosen the Bleeder Screw one to two turns. **DO NOT REMOVE THE BLEEDER SCREW FROM THE BLEEDER PORT.**
3. Rotate the Raise/Lower Switch upward to activate the pump unit and raise the Platform to bed level. Continue to hold the Switch up long enough to produce a clear, air-free, stream of oil from the Bleeder Port.
4. Lower the Platform approximately 6" to allow easy access to the Bleeder Screw
5. Tighten the Bleeder Screw.
6. Repeat steps 1 through 5 for the curbside Lift Cylinder.
7. After you have completed the bleeding procedure for both Lift Cylinders, operate the liftgate through several raise and lower cycles. The liftgate should operate smoothly and the Platform should travel evenly from the ground to the vehicle floor. If the platform is still raising or lowering unevenly, refer to the troubleshooting section of this document to determine the cause of the problem.

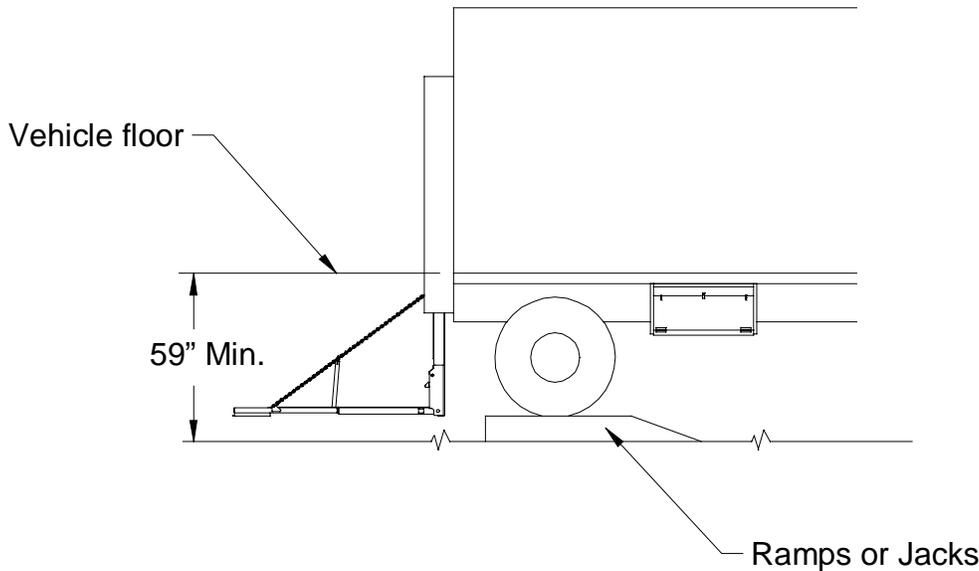


# WDL Liftgate not Raising or Lowering evenly

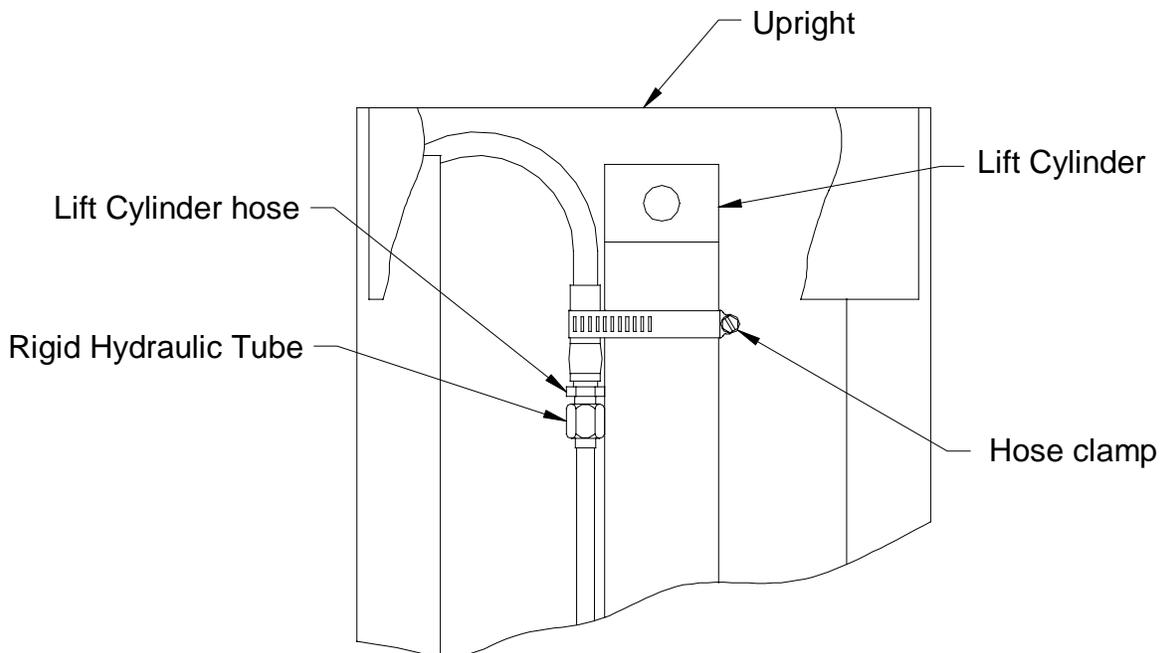
## Bleeding procedures for WDL Liftgates built prior to October 1998:

WDL liftgates built prior to October 1998 must be bled according to the following procedures. If your liftgate was built on or after October 1998, refer to the bleeding procedures for these liftgates described in the next section of this document.

1. Using suitable ramps or jacks, elevate the rear of the vehicle so that the vehicle floor is at least 59" above the ground. Lower the Platform, in the open position, so that the Lift Cylinders are fully extended (see below).



2. Starting with the street side Lift Cylinder, loosen the Hose Clamp and disconnect the Lift Cylinder Hose from the rigid hydraulic tube attached to the side of the Lift Cylinder as shown below.



# WDL Liftgate not Raising or Lowering evenly

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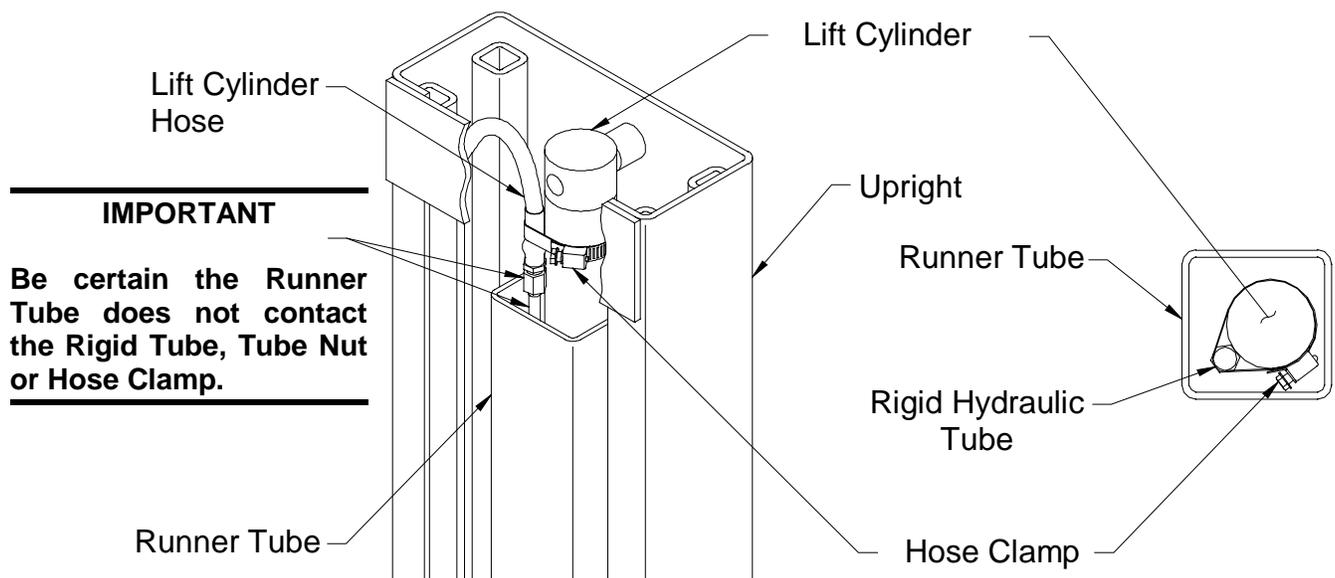
3. Press the Raise Switch to activate the pump unit. Continue to press the Raise Switch just long enough to produce a clear, air-free, stream of oil from the hose.
4. Reconnect the hose to the rigid Hydraulic Tube and tighten the Hose Clamp with the rigid hydraulic tube properly positioned to provide clearance to the inside of the Runner Tube as shown below.

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## IMPORTANT

**Note the position of the Hose Clamp on the Hose Fitting as shown.**

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5. Repeat steps 2 thru 4 for the curbside Lift Cylinder.
6. After you have completed the bleeding procedure for both Lift Cylinders, operate the liftgate through several raise and lower cycles. The liftgate should operate smoothly and the Platform should travel evenly from the ground to the vehicle floor. If the platform is still raising or lowering unevenly, refer to the troubleshooting section of this document to determine the cause of the problem.

# WDL Liftgate not Raising or Lowering evenly

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## WDL Flow Divider Valve:

All WDL liftgates are equipped with a Pressure Compensated Flow Divider Valve. The purpose of this valve is to keep the platform level when raising or lowering the liftgate with an off center load. All WDL liftgates built prior to 10/01 are equipped with an Adjustable Flow Divider Valve. Liftgates built after 10/01 (or liftgates that have had the valve replaced since 10/01) are equipped with an improved design Non-Adjustable Valve. This new valve is fully compatible with older liftgates and will be sent to anyone ordering a replacement valve for their liftgates.

## How to Adjust the Flow Divider Valve

### (For liftgates equipped with an adjustable valve – Built prior to 10/01):

If, when raising or lowering, the Platform is uneven with the ground or the floor of the vehicle (one side of the platform is higher than the other), the pressure-compensated Flow Divider Valve may have to be adjusted. This valve (located on the inside top of the Hydraulic Enclosure) is preset at the factory and should not require further adjustment at the time of installation. If adjustment is required, and only after the cylinders have been bled of all air (refer to “**Bleeding the Cylinders**” Section of this document), follow these procedures:

1. Observe and make note of which side of the platform raises first.
2. Find the two (2) 1-5/16" Hex Jam Nuts located on the right and left sides of the Flow Divider Valve. Unscrew both of the Jam Nuts approximately two (2) full turns.
3. Using a 1/4" size allen wrench, rotate the adjustment screw clockwise 1/8 turn on the side of the valve which controls the cylinder, on the side of the liftgate where the Platform is higher (raises first). (NOTE: The right side adjustment screw controls the street side cylinder and the left adjustment screw controls the curb side cylinder). Also, rotate the opposite side adjustment screw counterclockwise 1/8 turn.
4. After each time that you adjust the Flow Divider Valve, fully cycle the Platform several times from the ground to bed level, each time stopping and continuing to hold against the Upstops for several seconds.
5. Repeat this process in 1/8 turn or smaller increments, until the Platform is even and parallel to the ground and the floor of the vehicle when as it is being raised.
6. Tighten the Jam Nuts after you have completed the adjustment procedures.

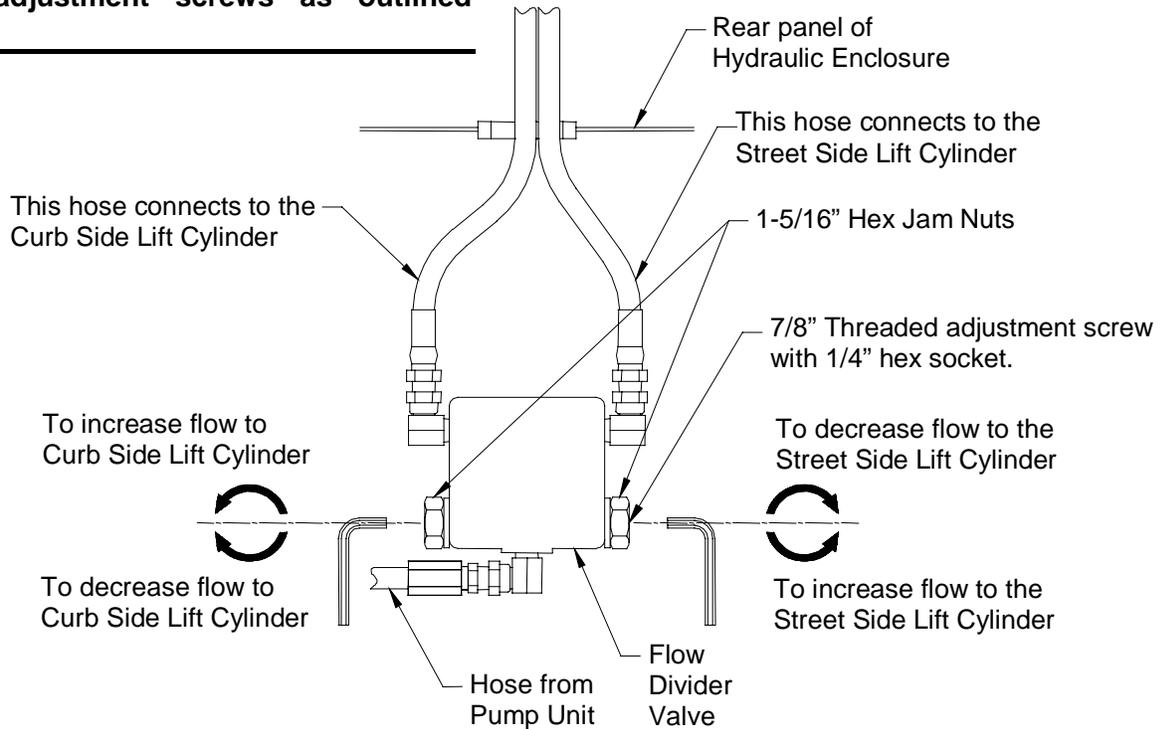
# WDL Liftgate not Raising or Lowering evenly

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## IMPORTANT

Do not try to adjust only one adjustment screw. The adjustment can only be successfully accomplished by adjusting both adjustment screws as outlined above.

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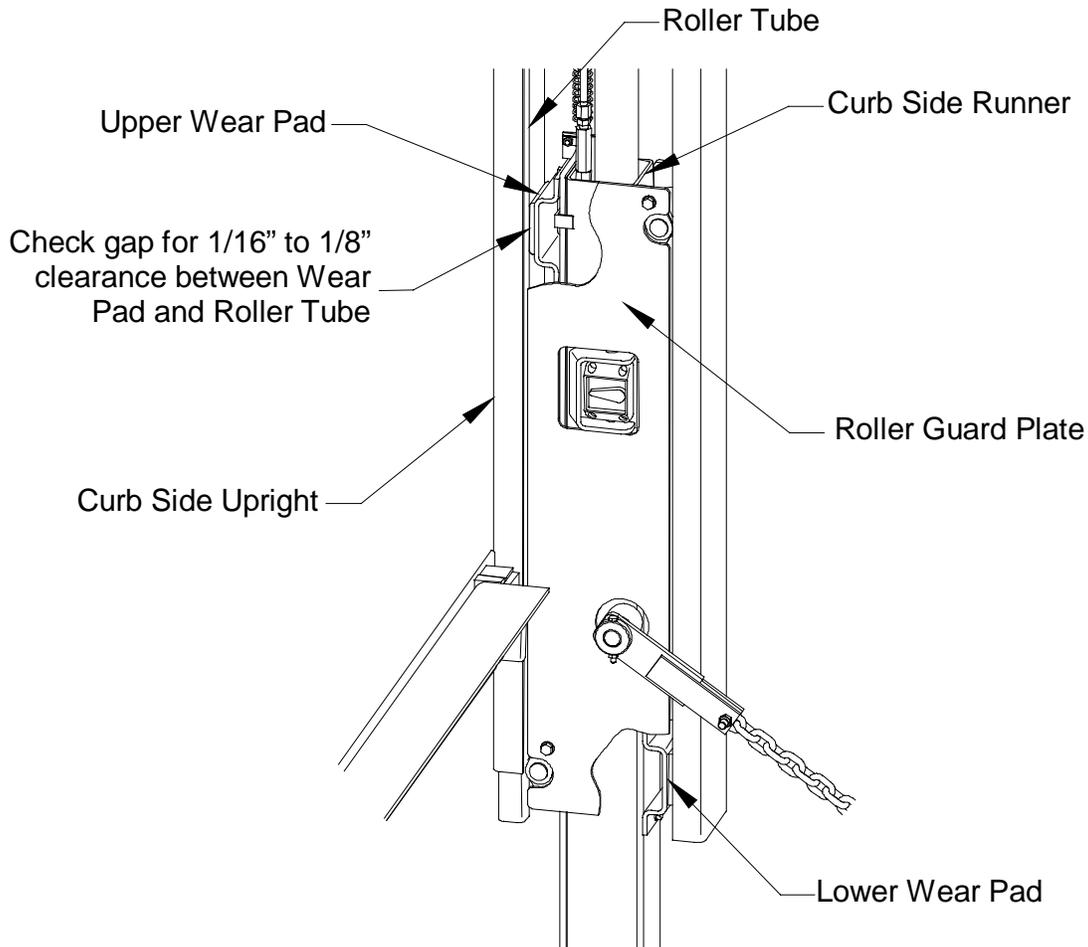


# WDL Liftgate not Raising or Lowering evenly

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## How to Check for Proper Wear Pad Clearance:

1. Open the Platform and lower it to 6" above the ground.
2. Starting with the curb side of the liftgate, locate the curb side Upper and Lower Wear Pads. (Refer to diagram below).
3. Visually inspect to see that a gap exists between the Upper and Lower Wear Pads and the Roller Tubes in the Upright Channel as shown below.
4. First inspect the gap with the Platform raised 6" above the ground. Then inspect the gap with the Platform halfway up to bed level. Finally, inspect the gap with the Platform near bed level.
5. If the Wear Pads are coming into contact with the Roller Tubes, or the gap is more than 1/8" at any of the three (3) positions inspected, the condition should be corrected by either adding shims to reduce the gap or by increasing the gap using a hydraulic jack or equivalent.



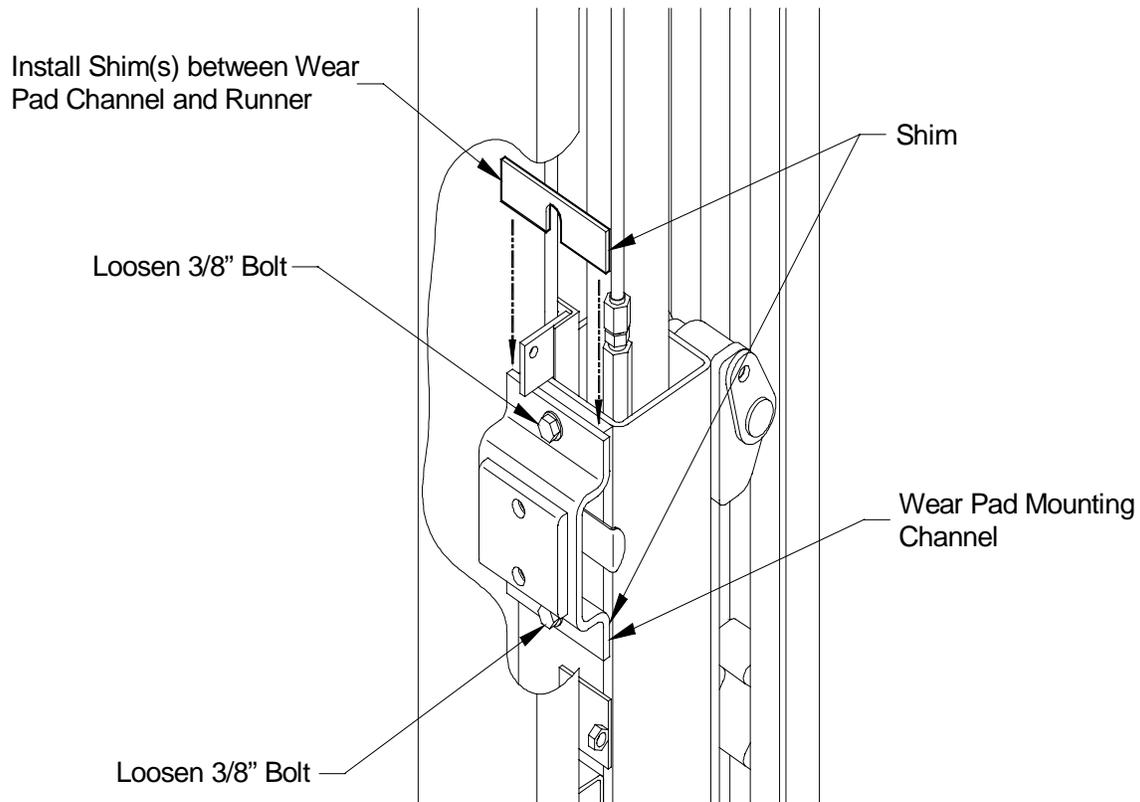
6. The minimum allowable spacing between the Roller Tubes is 8-1/2". If the gap is less than this amount, the Uprights will have to be straightened using a hydraulic jack or equivalent device to increase the gap between the Roller Tubes to the minimum 8-1/2" dimension. Contact WALTCO at 330-633-9191 if you have any questions about how to straighten the Uprights.

# WDL Liftgate not Raising or Lowering evenly

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## How to Install Shims to the Wear Pads:

1. Lower the Platform to approximately 6" above the ground and remove the Roller Guard Plate from each Runner that requires Shims.
2. Use the smallest gap that was measured of the three (3) positions, to determine the amount of shimming required.
3. Use the appropriate Shim(s) to reduce the gap to between 1/16" and 1/8". If more than 3/16" of shimming is required, contact WALTCO at (330) 633-9191 for further information.
4. Loosen the two (2) 3/8" bolts of the Wear Pad Mounting Channel to install shims, then tighten the bolts.



5. Re-install the Roller Guard Plate.



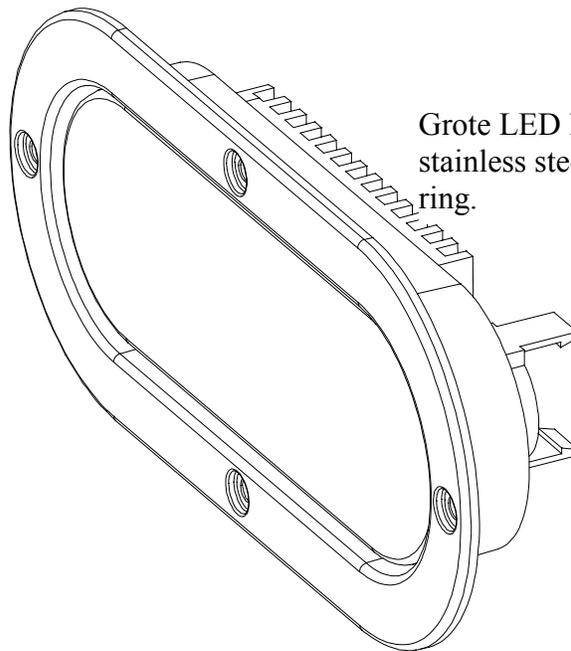
# WALTCO TECH TIPS

Date: 11/22/02  
No. 020115  
Model: WDL, ACL  
EO No. 4913, 4925, 4923

We have created non-SP Light Kits for the WDL and ACL, both Factory-installed and Field-installed.

The new LED's used in our kits are very similar in size to the existing 6" oval incandescents, and can be installed in the same rubber grommets. Their plugs are not interchangeable, but otherwise wiring is identical. Anti-theft rings are an SP option for the 80000985, -6, -7, and -8 kits.

- 80000985 WDL LED Light Kit, Truck, Factory Installed, grommet mounted.
- 80000986 WDL LED Light Kit, Trailer, Factory Installed, grommet mounted.
- 80000987 WDL LED Light Kit, Truck, Field Installed, grommet mounted.
- 80000988 WDL LED Light Kit, Trailer, Field Installed, grommet mounted.
- 80000989 ACL LED Side Light Kit, grommet mounted.
- 80000990 WDL Grote LED Light Kit, Truck and Trailer, Factory Installed, Stainless Steel Anti-Theft Ring. (This Kit was created for Ryder and does not include back-up lights for trucks)



Grote LED light with stainless steel anti-theft ring.



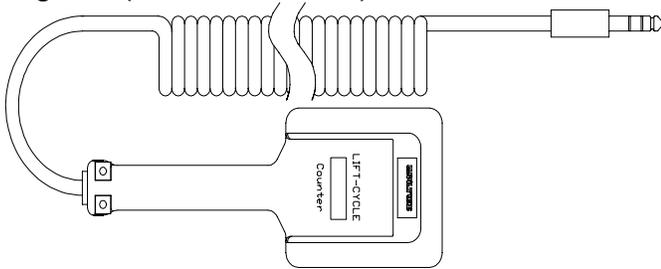
# WALTCO TECH TIPS

Date: 03-28-03  
No. TT030121  
Model: WDL, RGL, F, C, E  
EO No. 5021

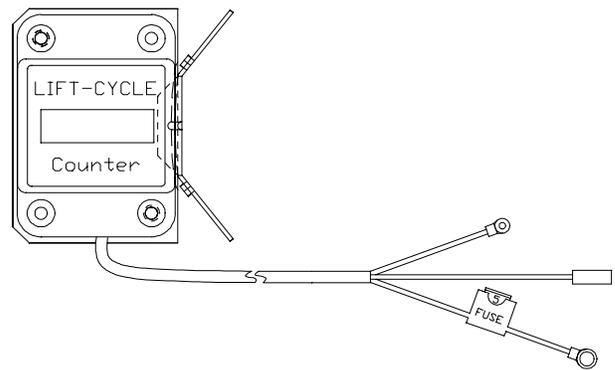
## SUBJECT: New Cycle Counter for WDL, RGL, F, C AND E

Engineering has released the new Cycle Counter as a standard option for the WDL, RGL, F, C and E with single pumps. This can be provided as a field retrofit kit or factory installed option. This cycle counter must utilize the new generation Thermalpak with Voltage Guard in order to record cycles (the new generation controllers are white). Additional liftgate models and dual pump options can be provided as a custom request.

There are two styles of digital readouts. One is a permanent mount which employs one digital readout per liftgate. The other is a hand held unit which employs one data port per liftgate. The data port option allows one digital readout (hand held) to be used for multiple liftgates (useful for a fleet).



Hand Held Cycle Counter (10099450)



Permanent Mount Cycle Counter

All the recording information is contained in the Controller unit. If the cycle counter is added as a retrofit kit, the cycles displayed will be current from the time the **New Generation** controller unit was put into service. If the pump unit has an old generation controller unit, it will need to be replaced with a new generation unit and the cycle count will start at zero. Upon request the controller can be programmed to display hours of run time in addition to liftgate cycles.

The following kits were released:

- 80001006 Cycle Counter Kit, permanent mount for new generation controller
- 80001007 Cycle Counter Kit, data port only for new generation controller  
(part # 10099450 Hand held reader needed for reading data)
- 80001008 Cycle Counter Kit, permanent mount, retrofit new generation controller included
- 80001009 Cycle Counter Kit, data port only, retrofit new generation controller included  
(part # 10099450 Hand held reader needed for reading data)
- 10099450 Hand Held Cycle Counter

NOTE: One cycle is equivalent to 5 or more seconds of motor run time per activation.

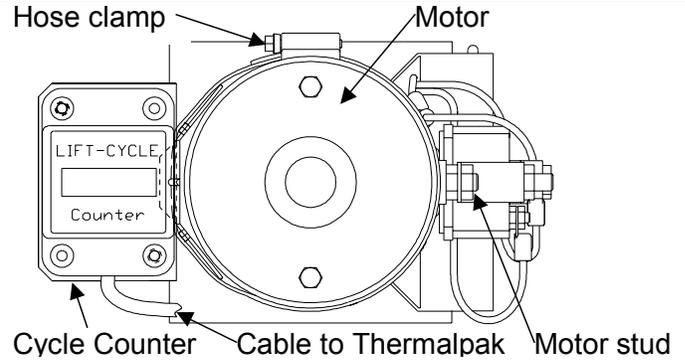
The following instructions (80101342) are sent out with each kit showing how to wire the cycle counter and mount the hardware:

### CYCLE COUNTER MOUNTING

Attach cycle counter to end of motor using hose clamp provided.

Be certain not to touch Motor stud with hose clamp or bracket.

When counter is placed on opposite side of motor, remove counter from bracket and reassemble facing upright.

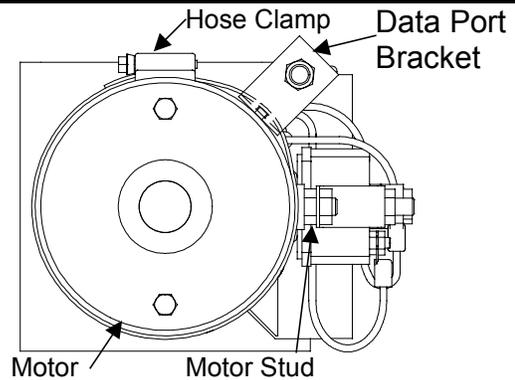


GR00203

### DATA PORT MOUNTING FOR HAND HELD CYCLE COUNTER

Attach Data Port Bracket to end of motor using hose clamp provided.

Be certain not to touch Motor stud with hose clamp or Bracket.

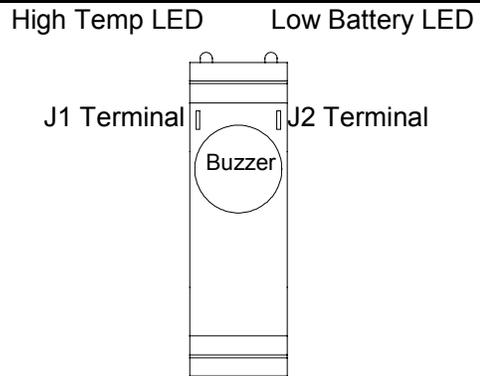


GR00204

### PRE-WIRING OF THERMALPAK UNITS NOT EQUIPPED WITH CYCLE COUNTER PLUG.

For Thermalpak units having additional wire with cycle counter plug, proceed to next step.

Units not having cycle counter plug, remove Thermalpak and install supplied jumper wire to J2 terminal on back of unit. Thread jumper out with remaining wires and reinstall Thermalpak.

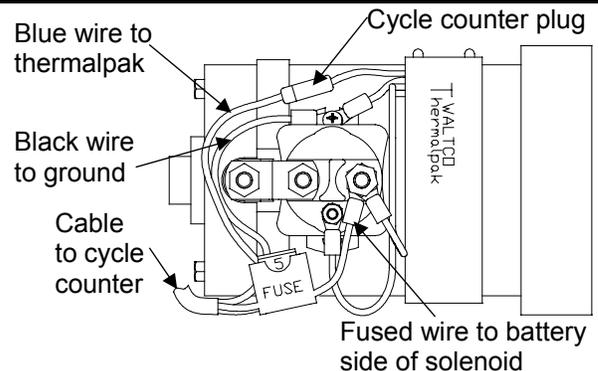


GR00206

### WIRING CYCLE COUNTER/DATA PORT INTO PUMP UNIT

Connect wires to Thermalpak, ground, and solenoid as shown.

Place operation decal in a conspicuous location near the cycle counter.



GR00205

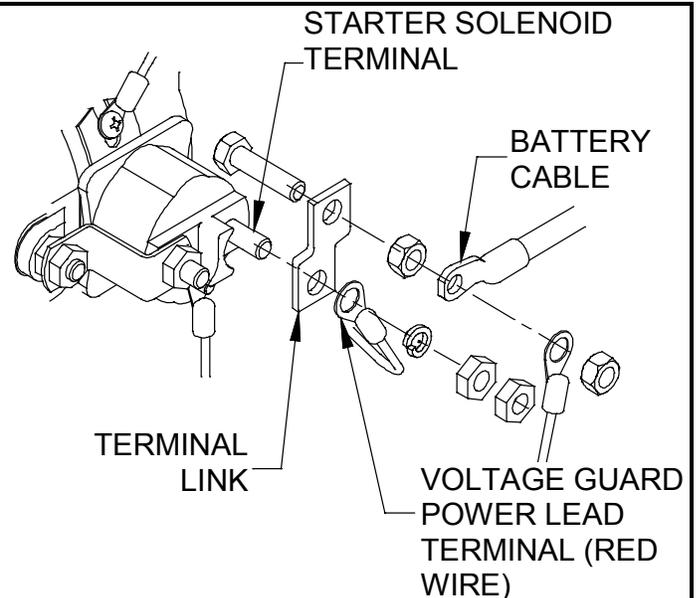


# WALTCO TECH TIPS

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

## SUBJECT: Voltage Guard Connections

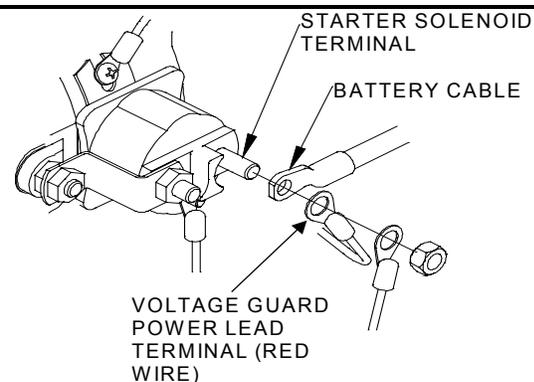
- If you encounter these symptoms in your controls: Motor won't run when Raise or Close switches are actuated, unless Voltage Guard is bypassed. No alarm from Voltage Guard. Before you assume that the Voltage Guard is defective, try this simple fix:
- WDL, RGL, OR WSL VERSION
- Disconnect Battery Cable, 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: 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 Synolon (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.

**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
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127000	04/84
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142000	10/84
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149000	07/85
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201000	11/87
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205000	04/88
206000	05/88

Ser No	Date
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304000	04/94
305000	05/94

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469000	05/03
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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
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119000	12/83
130000	03/84
131000	05/84
132000	07/84
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159000	12/87
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171000	04/88

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215000	12/92
216000	02/93
217000	05/93

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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
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M14500	01/02
M15000	06/02
M15500	01/03
M16000	07/03
M16500	11/03
M17000	03/04

**Others**

Ser No	Date
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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