

1 INTRODUCTION

Congratulations on the purchase of your new DEL Liftgate.

Each DEL Liftgate is manufactured to stringent quality standards for years of reliable service. To ensure maximum performance of your DEL Liftgate, always specify and use genuine OEM replacement parts from DEL Liftgates. *Look for DEL Liftgates genuine OEM parts at your local distributor.

This manual is a complete parts listing for medium duty DEL Liftgates from 1000 to 3000 lb. capacity. We have provided photos, charts and diagrams to make the selection of the correct part as easy as possible. This manual also provides a reference to the mechanical operation of medium duty DEL Liftgates.

This manual does not provide procedures for the servicing and repair of a DEL Liftgate. Request the appropriate DEL Liftgate service manual. Service and repair should only be performed by an authorized DEL Liftgates, Inc. distributor. He is an important part of our Quick Response Team, dedicated to your satisfaction and business success. For information on the nearest authorized DEL Liftgates distributor contact:

DEL LIFTGATES, INC.
P.O. Box 6126
190 Lewis Street
Buffalo, NY 14240-6126
Phone: 800-289-1335
FAX: 716-854-5424
e-mail: dellift@buffnet.net
web-site:www.liftgate.com



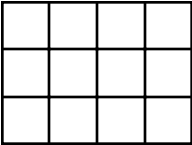
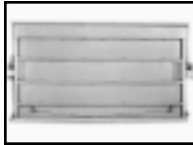
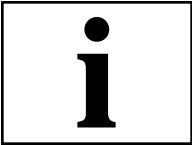



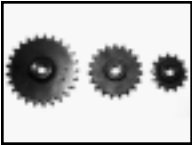





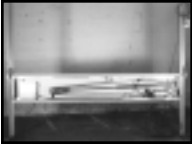


** The use of non-standard or makeshift parts can be extremely hazardous and result in serious injury or death.*



Call 1-800-289-1335 for the  **Quick Response** 

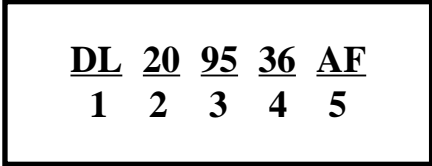
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ORDERING INFORMATION

MODEL NUMBER CODING

The code and model numbers of a liftgate are references to its size, type, and capacity. Using these numbers when ordering or inquiring provides fast, easy and accurate ordering.



1. = Liftgate type

- DL = Rail Style Liftgate
- PT = Rail Style Liftgate for Pickup
- SB = Rail Style Liftgate for Service Body
- TG = Rail Style Liftgate for Tool Gate

3. = Width of liftgate from outside of rail to outside of rail

95 = 95" overall width

4. = Depth of platform

36 = 36" of platform loading area (This does not include the ramp.)

2. = Weight Capacity

- 10 = 1000 lb. capacity
- 12 = 1250 lb. capacity
- 16 = 1600 lb. capacity
- 20 = 2000 lb. capacity
- 30 = 3000 lb. capacity

5. = Standard floor height or above the floor lift

- TML, ML, AF, M = Above floor
- T = Standard liftgate
- Blank = Standard liftgate

HOW TO READ PART LOCATOR CHART

PARTS LOCATOR CHART

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | | |
|-------------------|-----------------------|-----------------------|-------------------------|--------------------------------------|--------------------------------------|-------------------------------|-------------------------------|
| | PT 12 DL 10 | SB DL 12 | TG | DL 16, DL 20 2" THICK PLATFORM | DL 16, DL 20 3" THICK PLATFORM | DL 30 2" THICK PLATFORM | DL 30 3" THICK PLATFORM |
| SLIDER L.H. | 10055 25" L X 1" Ø | 12055 31" L X 1" Ø | 16008 40" L X 1.5" Ø | 20536 40" L X 1" Ø | 16008 40" L X 1.5" Ø | 20536 40" L X 1" Ø | 16008 40" L X 1.5" Ø |
| SLIDER R.H. | 10054 25" L X 1" Ø | 12054 31" L X 1" Ø | 16007 40" L X 1.5" Ø | 20535 40" L X 1" Ø | 16007 40" L X 1.5" Ø | 20535 40" L X 1" Ø | 16007 40" L X 1.5" Ø |
| TERMINATION BLOCK | 20006 | 20006 | 20006 | 20006 | 20006 | 30002 | 30002 |

Part Number

Liftgate model

Part name

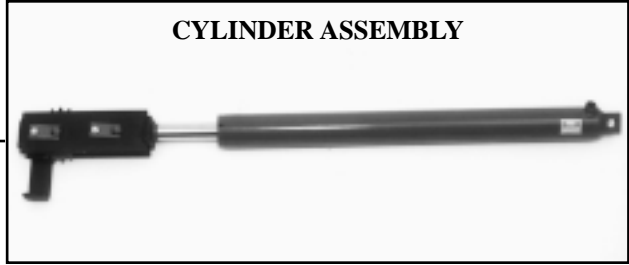
Part Description
(If Available)

SEVEN EASY STEPS TO CORRECT PARTS ORDERING

STEP 1: IDENTIFY THE PART FROM THE LIFTGATE BREAKDOWN

STEP 2: REFER TO THE TABLE OF CONTENTS FOR THE PART LOCATION

STEP 3: REFER TO THE APPROPRIATE PICTURE



STEP 5: LOCATE LIFTGATE MODEL

STEP 4: LOCATE PART NAME

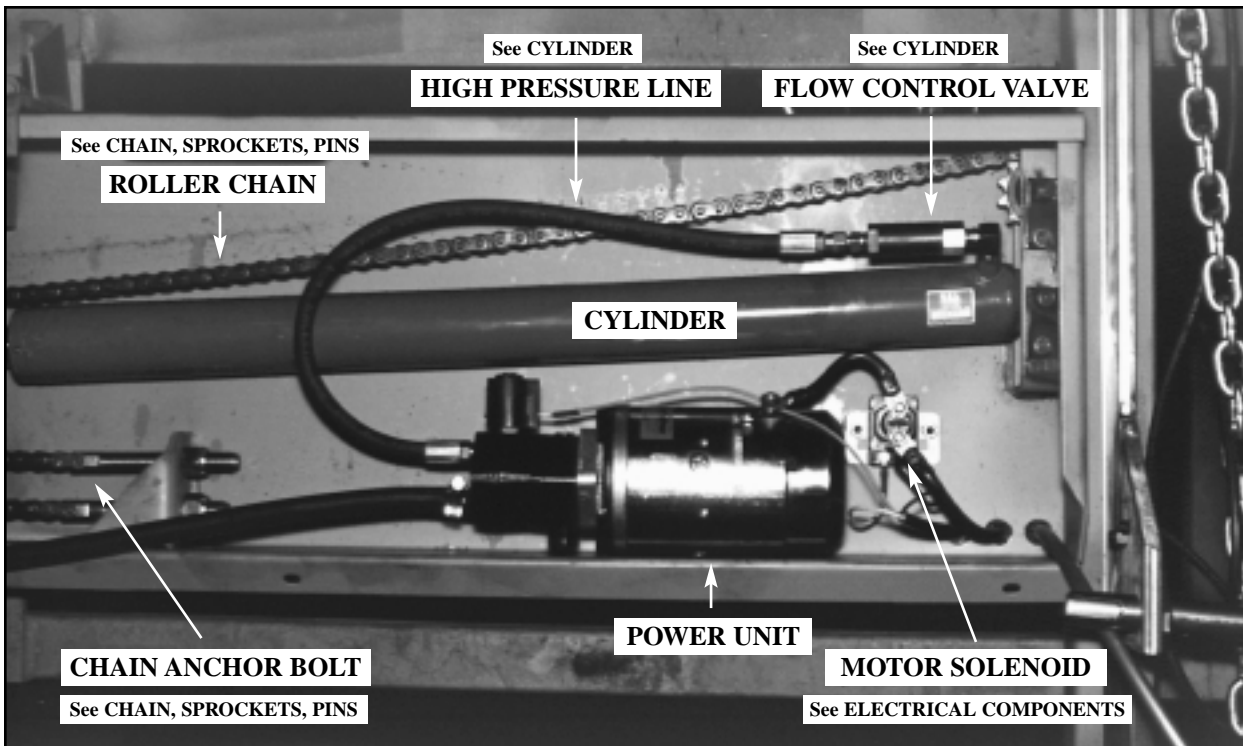
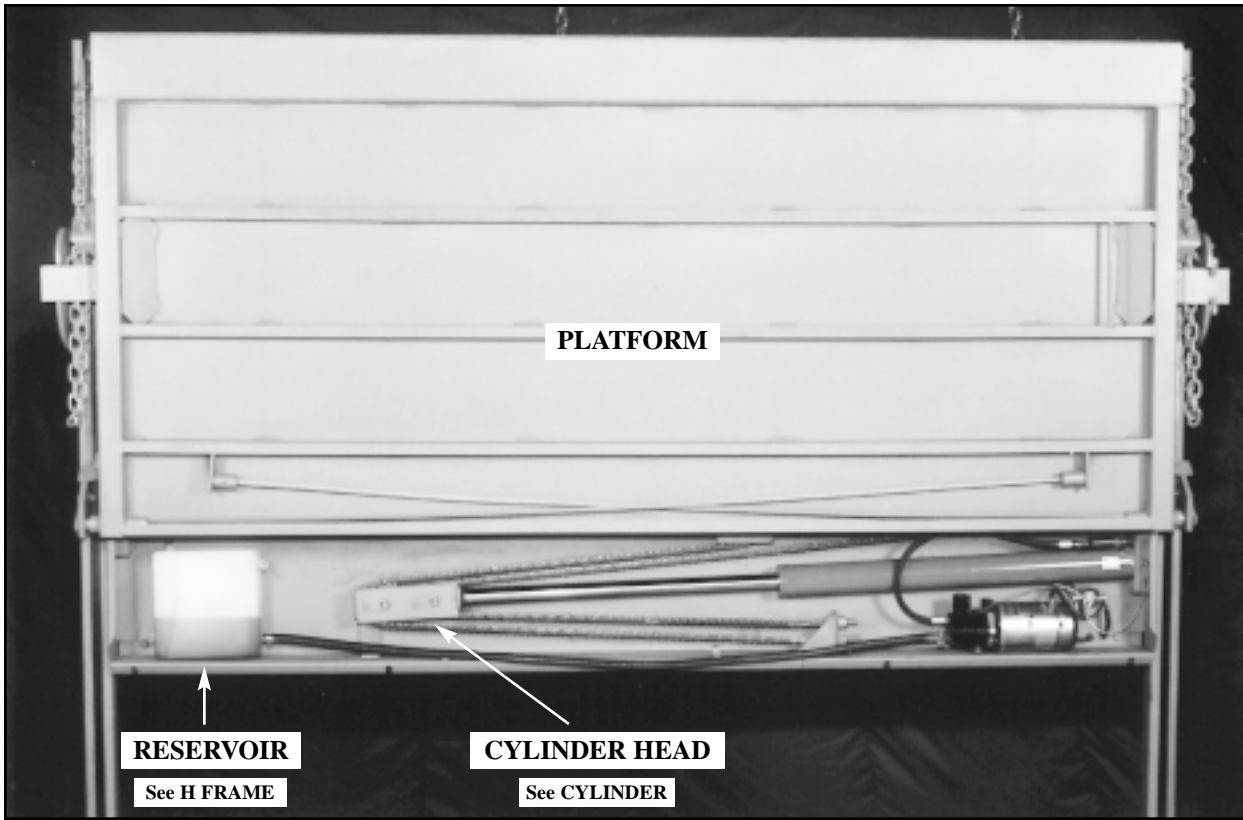
| DESCRIPTION | DEL LIFTGATE MODEL | |
|-------------------|---------------------------|---------------------------|
| | PT 12 DL 10 | SB 12 DL 10M |
| CYLINDER ASSEMBLY | 10127 1 1/2" B X 17" S | 10133 1 1/2" B X 22" S |
| CYLINDER ONLY | 10129 1 1/2" B X 17" S | 10329 1 1/2" B X 22" S |

STEP 6: FIND THE CORRECT PART NUMBER

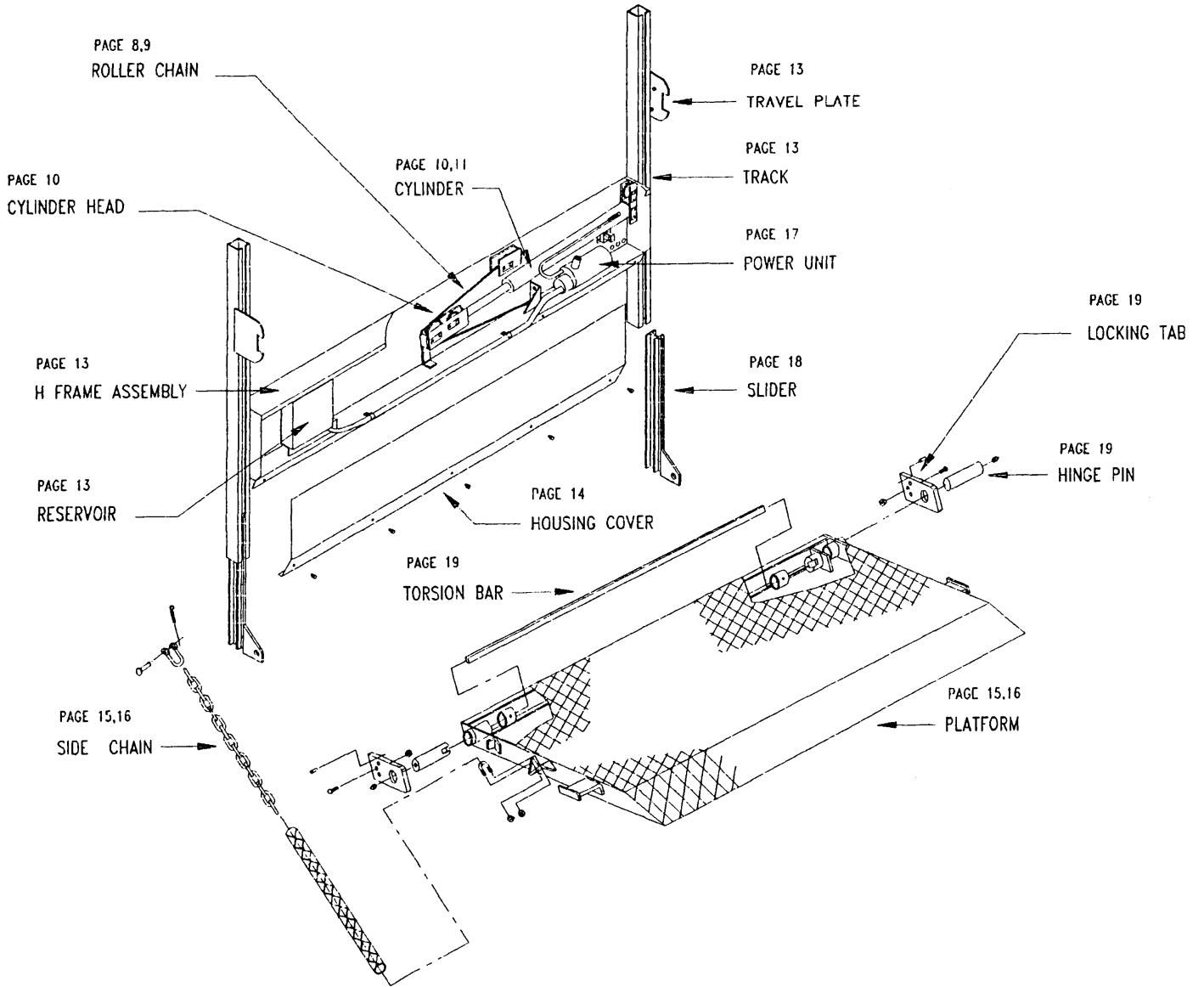
STEP 7: ORDER THE PART

MODEL NUMBER: DL 10M
 PART NAME: CYLINDER ASSEMBLY
 QUANTITY REQUIRED: 1
 PART NUMBER: 10133

LIFTGATE EXPLODED VIEW



LIFTGATE EXPLODED VIEW

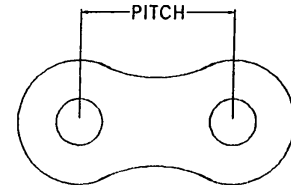
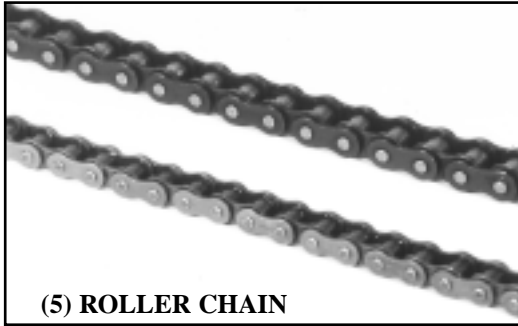


CHAIN, SPROCKETS, PINS

GENERAL INFORMATION

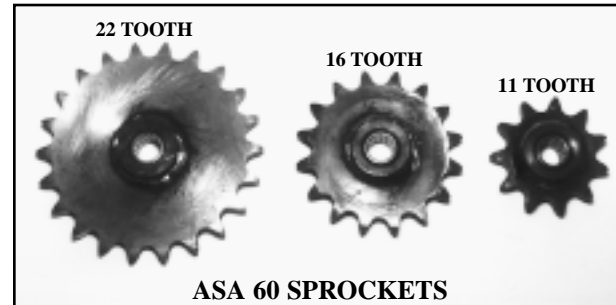
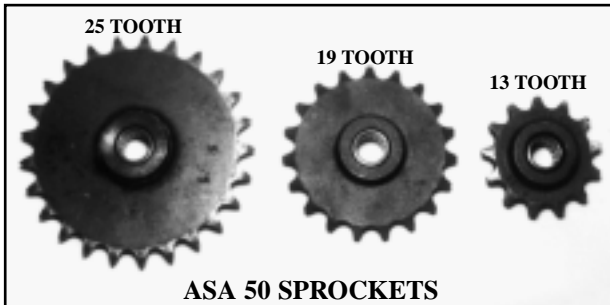
- All liftgate models ranging from 1000 lb. capacity to 2000 lb. capacity require ASA 50 chain and sprockets.
- All liftgate models in the 3000 lb. capacity range require ASA 60 chain and sprockets.

CHAIN: Can be identified by the size of pitch (distance between pins).



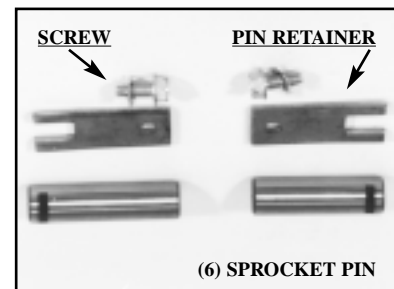
5/8" PITCH SIZE = ASA 50
3/4" PITCH SIZE = ASA 60

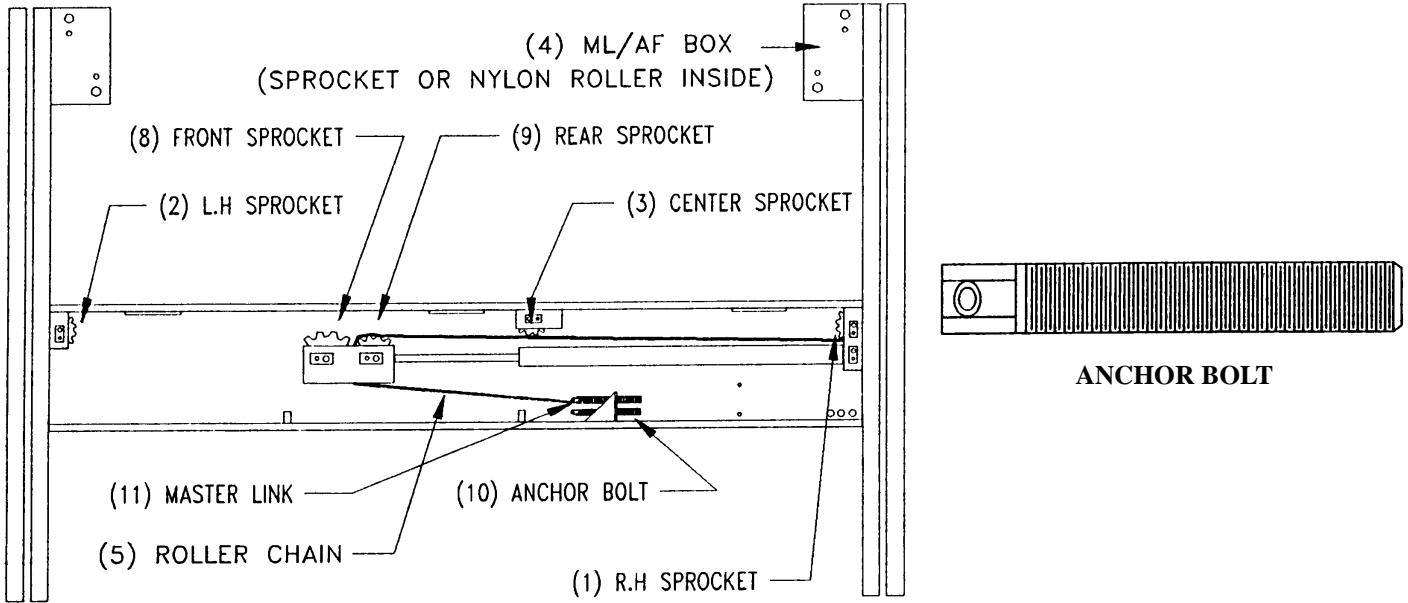
SPROCKETS: Can be determined by the number of teeth.



PINS:

- There are only two sizes of sprocket pins available for Rail gates ranging from 1000 lb. to 3000 lb. capacity.
- The 5/8" diameter sprocket pin is available in two lengths for 1000 lb. to 3000 lb. capacity liftgates.
- The 1 5/8" long pins are used on cylinder heads and ML/AF boxes on 1000 lb. to 2000 lb. capacity liftgates only.
- The 2 1/4" long pins are used on all internal brackets (R.H., L.H., Center) on 1000 lb. to 2000 lb. capacity liftgates, and throughout the entire 3000 lb. capacity liftgate, including the cylinder head and ML/AF boxes.



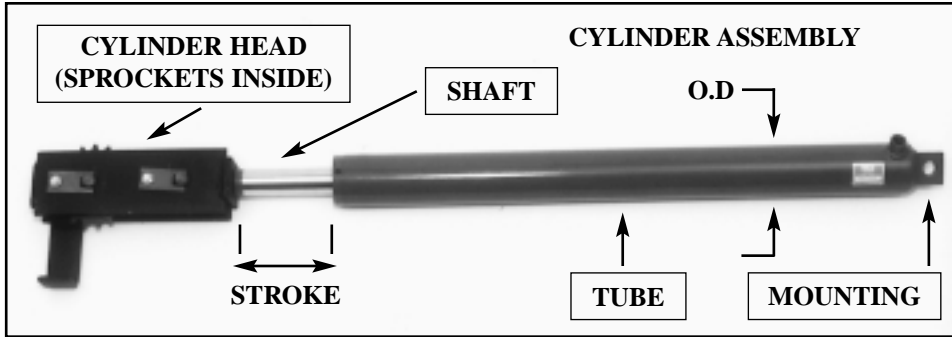


| DESCRIPTION | | DEL LIFTGATE MODEL | |
|-------------|--------------------------------------|--|----------------------------------|
| | | ALL DL. PT. SB. TG. MODELS 1000 lb.-2000 lb. CAP. | DL 30 |
| 1 | R.H. SPROCKET | 20013 13 TOOTH | 30007 11 TOOTH |
| 2 | L.H. SPROCKET | 20013 13 TOOTH | 30007 11 TOOTH |
| 3 | CENTER SPROCKET | 20013 13 TOOTH | 30007 11 TOOTH |
| 4 | ML/AF SPROCKET | 20013 13 TOOTH | 30007 11 TOOTH |
| 5 | NYLON ROLLER | 20367 | 20367 |
| 6 | ROLLER CHAIN | 20044 ASA 50 | 30001 ASA 60 |
| 7 | SPROCKET PIN L.H., R.H., CENTER | 20016 2 1/4" LONG X 5/8" DIA. | 20016 2 1/4" LONG X 5/8" DIA. |
| 8 | SPROCKET PIN CYL. HEAD, ML/AF BOX | 10016 1 5/8" LONG X 5/8" DIA. | 20016 2 1/4" LONG X 5/8" DIA. |
| 9 | FRONT SPROCKET CYLINDER HEAD | 20108 19 TOOTH | 30106 22 TOOTH |
| 10 | REAR SPROCKET CYLINDER HEAD | 20013 13 TOOTH | 30107 16 TOOTH |
| 11 | ANCHOR BOLT | 20007 6" LONG | 30003 |
| 12 | CHAIN CONNECTING LINK | 20010 ASA 50 | 30004 ASA 60 |

CYLINDER

Cylinders are identified by 4 items:

- Tube
- Cylinder Head and Sprockets
- Shaft
- Mounting



TUBE: The tube is identified by the bore size.

- The bore size is the inside diameter of the tube. Another measurement to determine the bore size is: the outside diameter of the tube minus 3/8".
- Typical bore sizes are as follows: 1 1/2", 2", 2 1/2", 3 1/4"

SHAFT: The shaft is identified by the stroke.

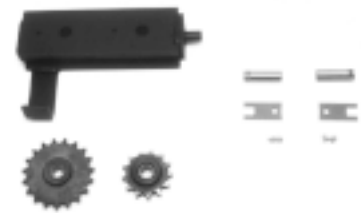
- The stroke of the cylinder is the length, in inches, that the cylinder travels out of the tube.
- Typical lengths are as follows: 17" - 17 1/2", 22" - 22 1/2", 27" - 27 1/2"

Note: Older cylinder - Non chrome shaft

Newer cylinder - Chrome shaft

CYLINDER HEAD: There are only three cylinder heads to be identified.

- The cylinder head can be identified by the number of sprockets in the cylinder head and the type of sprockets.
- The number of sprockets and teeth for each type of cylinder head are as follows.



| CYLINDER HEAD TYPE | NUMBER OF SPROCKETS ON CYLINDER HEAD | NUMBER OF TEETH ON SPROCKETS |
|--------------------|--------------------------------------|------------------------------|
| STANDARD DL HEAD | Two Sprockets | One 13 Tooth, One 19 Tooth |
| MINI HEAD | Two Sprockets | One 9 Tooth, One 13 Tooth |
| TRI-HEAD | Three Sprockets | Two 9 Tooth, One 13 Tooth |
| LARGE (DL30) | Two Sprockets | One 16 Tooth, One 22 Tooth |

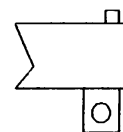
NOTE: See CHAIN, SPROCKETS, PINS for further information on Sprockets.

MOUNTING: Can be identified three ways.

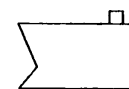
- The mounting tab can be located at three positions.



TAB AT THE REAR



TAB AT THE BOTTOM



NO TAB

SEAL IDENTIFICATION:

There are only two types of seals for cylinders.
The bore size determines the seal size:

- Non chrome shaft cylinders require Ram cup seals. Fig 1
Typical Ram cup seal sizes for cylinders are as follows: 1 3/8", 2", 2 5/8"

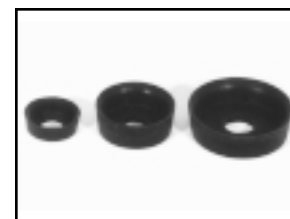


Fig 1

Fig 2

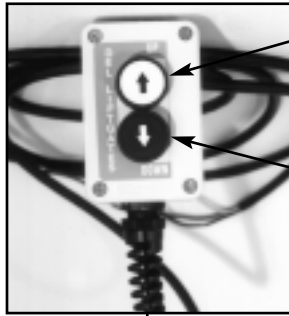


- Chrome shaft cylinders require Piston seal kits. Fig 2
Typical Piston seal kit sizes for cylinders are as follows: 1 1/2", 2", 2 1/2"

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | |
|--------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|---------------------------|---------------------------|
| | PT 12 DL 10 | SB 12 DL 10M | DL 12 TG PT 16, SB 16 | DL 12AF DL 16 DL 16AF | DL 20 DL 20AF | DL 30 |
| CYLINDER ASSEMBLY | 10127 1 1/2" B X 17.5 S | 10133 1 1/2" B X 22.5 S | 10123 2" B X 22.5 S | 16131 2" B X 27" S | 16216 2 1/2" B X 27" S | 30117 2 1/2" B X 27" S |
| CYLINDER ONLY | 10129 1 1/2" B X 17" S | 10329 1 1/2" B X 22" S | 12133 2" B X 22" S | 16132 2" B X 27" S | 20118 2 1/2" B X 27" S | 20118 2 1/2" B X 27" S |
| PISTON SEAL KIT | 12146 1 1/2" O.D. | 12146 1 1/2" O.D. | 12147 2" O.D. | 12147 2" O.D. | 16218 2 1/2" O.D. | 16218 2 1/2" O.D. |
| RAM HEAD ONLY | 10109 | 10109 | 10109 | 10109 | 10109 | 20111 |
| RAM CUP | 10103 1 3/8" I.D. | 10102 2" I.D. | 10102 2" I.D. | 10102 2" I.D. | 20102 2 5/8" I.D. | 20102 2 5/8" I.D. |
| FLOW CONTROL VALVE | 25180 1.5 GPM | 25180 1.5 GPM | 25182 2.5 GPM | 25182 2.5 GPM | 25183 4 GPM | 25183 4 GPM |
| HIGH PRESSURE LINE | 10044 26" LONG | 10044 26" LONG | 10044 26" LONG | 10044 26" LONG | 10044 26" LONG | 10044 26" LONG |

ELECTRICAL COMPONENTS

TWO BUTTON SWITCH

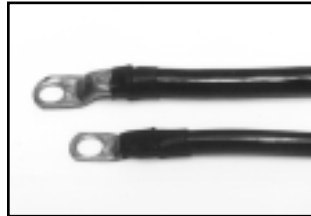


UP BUTTON

DOWN BUTTON



CONTACT BLOCK



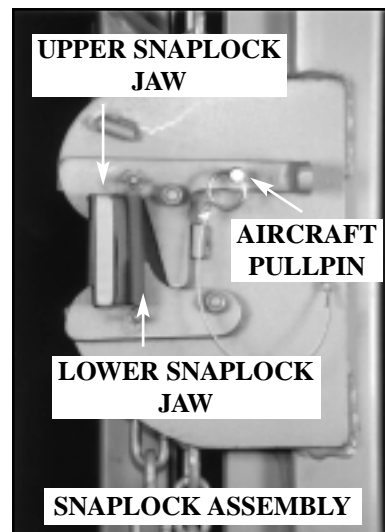
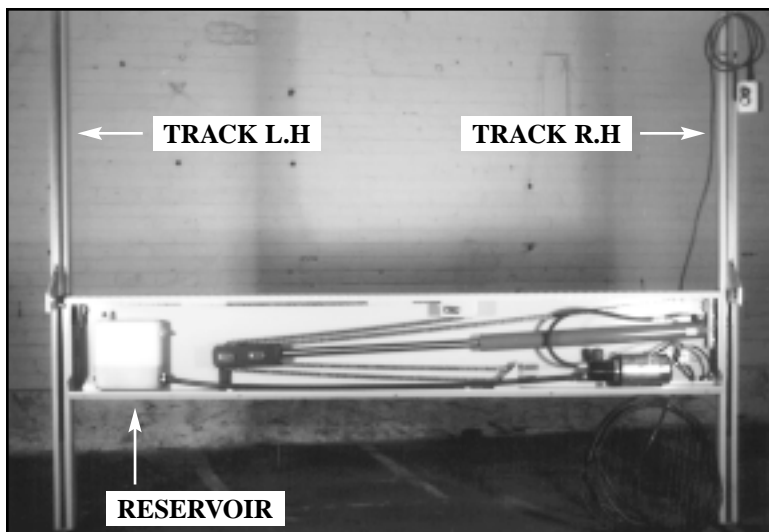
BATTERY CABLE

SOLENOID



CIRCUIT BREAKER

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | |
|---------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | DL 10 | PT 12 SB | DL 12 | DL 16 | DL 20 | DL 30 |
| SWITCH ASSEMBLY | 10039 | 10039 | 10039 | 10039 | 10039 | 10039 |
| BOX ONLY TWO BUTTON | 20437 | 20437 | 20437 | 20437 | 20437 | 20437 |
| SOLENOID 3 POST | 10021 | 10021 | 10021 | 10021 | 10021 | 10021 |
| CIRCUIT BREAKER/ MASTER DISCONNECT | 20574 | 20574 | 20574 | 20574 | 20574 | 20574 |
| CIRCUIT BREAKER BOX | 10327 | 10327 | 10327 | 10327 | 10327 | 10327 |
| CIRCUIT BREAKER COVER | 10328 | 10328 | 10328 | 10328 | 10328 | 10328 |
| BATTERY CABLE | 10040 #4 Ga. X 20' | 10040 #4 Ga. X 20' | 16031 #4 Ga. X 25' | 10041 #2 Ga. X 33' | 10041 #2 Ga. X 33' | 10041 #2 Ga. X 33' |
| CONTACT BLOCK | 20185 | 20185 | 20185 | 20185 | 20185 | 20185 |
| UP BUTTON WHITE | 20188 | 20188 | 20188 | 20188 | 20188 | 20188 |
| DOWN BUTTON BLACK | 20189 | 20189 | 20189 | 20189 | 20189 | 20189 |
| RELAY PARKING LIGHT | 20546 | 20546 | 20546 | 20546 | 20546 | 20546 |

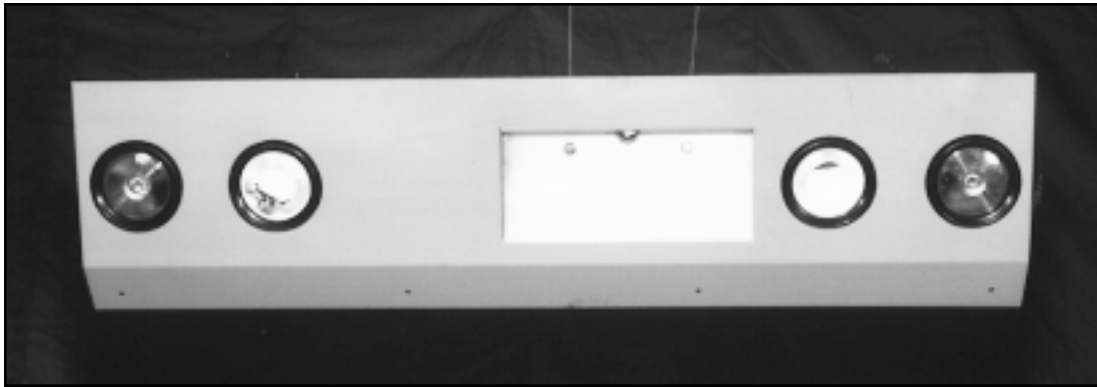


GENERAL INFORMATION

The size of the track (length) listed below may not reflect the actual size at the time of order since tracks are usually trimmed at the time of installation.

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | | | | | | |
|-------------------------------|--------------------|------------------|-----------------|-----------------|------------------|------------------|----------------|------------------|------------------|------------------|------------------|
| | DL 10 PT 1262 | DL 10 PT 1266 | PT 16 | SB | DL 1278 | DL 1290 | TG 1689 | TG 1693 | DL 1693 | DL 2095 | DL 3095 |
| H FRAME | 10359 62" | 10361 66" | 10361 66" | 10362 66" | 12282 78" | 12283 90" | 16356 89" | 16360 93" | 16358 93" | 20368 95" | 20368 95" |
| H FRAME (AF) (Above Floor) | 10363 62" | 10364 66" | 10364 66" | NA | 12284 78" | 12285 90" | 16357 89" | 16361 93" | 16359 93" | 20369 95" | 20369 95" |
| TRACK L.H. | 10051 40" | 10051 40" | 12051 59.25" | 12051 59.25" | 12051 59.25" | 12051 59.25" | 16026 51" | 16026 51" | 20055 72" | 20055 72" | 20055 72" |
| TRACK L.H. (AF) | 12048 56" | 12048 56" | 20083 75" | NA | 20083 75" | 20083 75" | 16028 77" | 16028 77" | 20083 75" | 20083 75" | 20083 75" |
| RESERVOIR | 12015 STEEL | 10017 PLASTIC | 12015 STEEL | 12015 STEEL | 10017 PLASTIC | 10017 PLASTIC | 12015 STEEL | 10017 PLASTIC | 10017 PLASTIC | 10017 PLASTIC | 10017 PLASTIC |
| TRACK R.H. | 10050 40" | 10050 40" | 12050 59.25" | 12050 59.25" | 12050 59.25" | 12050 59.25" | 16025 51" | 16025 51" | 20054 72" | 20054 72" | 20054 72" |
| TRACK R.H. (AF) | 12049 56" | 12049 56" | 20082 75" | NA | 20082 75" | 20082 75" | 16027 77" | 16027 77" | 20082 75" | 20082 75" | 20082 75" |
| TRAVEL PLATE L.H. | 10007 | 10007 | 10007 | 10007 | 10007 | 10007 | 20051 | 20051 | 20051 | 20051 | 20051 |
| TRAVEL PLATE R.H. | 10007 | 10007 | 10007 | 10007 | 10007 | 10007 | 20048 | 20048 | 20048 | 20048 | 20048 |
| UPPER JAW | N/A | N/A | N/A | N/A | N/A | N/A | 20039 | 20039 | 20039 | 20039 | 20039 |
| LOWER JAW | N/A | N/A | N/A | N/A | N/A | N/A | 20040 | 20040 | 20040 | 20040 | 20040 |
| AIRCRAFT PULLPIN | 16148 | 16148 | 16148 | 16148 | 16148 | 16148 | 16148 | 16148 | 16148 | 16148 | 16148 |

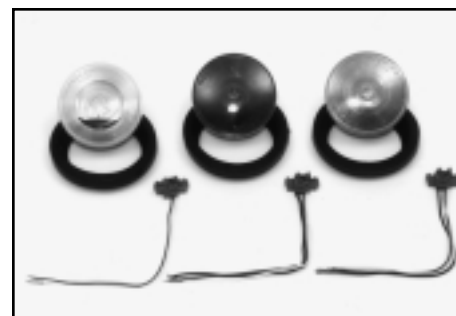
HOUSING COVER WITH LIGHTS



When ordering housing covers for liftgate models built prior to November 1991, the following dimensions may be required.

H _____
 C _____

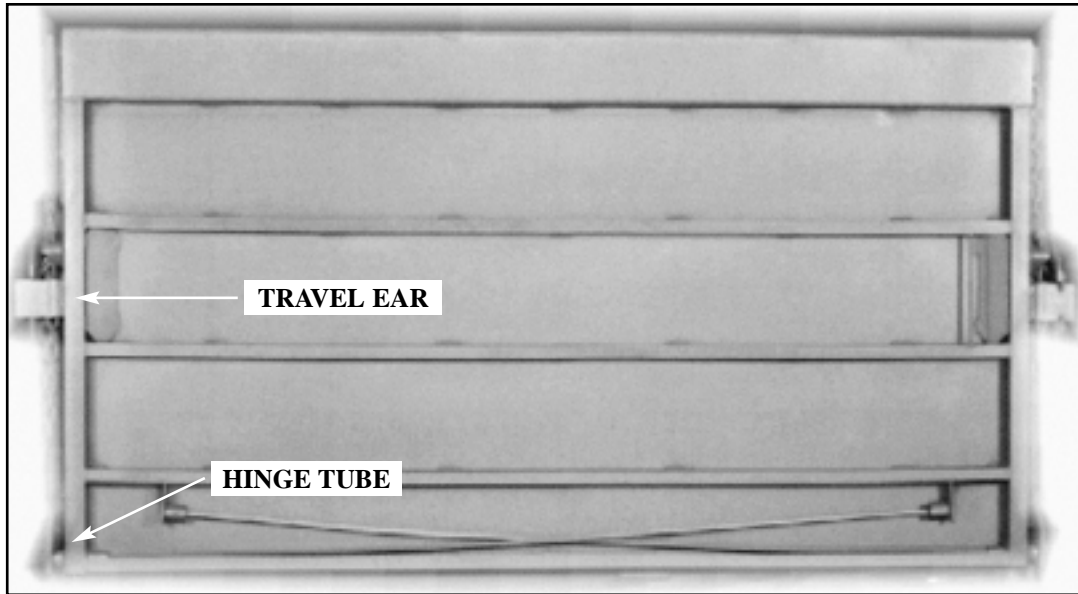
HOUSING COVER SIDE VIEW



The chart below represents liftgates built from November 1991 to 1995.

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | | | | | | |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | DL 10 PT 1262 | DL 10 PT 1266 | PT 16 | SB | DL 1278 | DL 1290 | TG 1689 | TG 1693 | DL 1693 | DL 2095 | DL 3095 |
| HOUSING COVER PLAIN | 10061 57" STL | 10060 61" STL | 10060 61" STL | 10060 61" STL | 12058 73" STL | 12059 85" STL | N/A | N/A | 16052 88" STL | 16073 90" STL | 16073 90" STL |
| HOUSING COVER W/LIGHT HOLE | N/A | N/A | N/A | N/A | 12060 73" STL | 12061 85" STL | 16091 84" STL | 16090 88" STL | 16053 88" STL | 16074 90" STL | 16074 90" STL |
| HOUSING COVER W/LIGHTS + HARNESS | N/A | N/A | N/A | N/A | 16087 | 16088 | 16091 | 16090 | 16089 | 16086 | 16086 |
| BACK UP WHITE LIGHT | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. | 16061 4.5" DIA. |
| STOP TURN LIGHT RED | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. | 16062 4.5" DIA. |
| LIGHT HARNESS 4 LIGHT SYSTEM | 16060 | 16060 | 16060 | 16060 | 16060 | 16060 | 16060 | 16060 | 16060 | 16060 | 16060 |
| LIGHT HARNESS 6 LIGHT SYSTEM | 16105 | 16105 | 16105 | 16105 | 16105 | 16105 | 16105 | 16105 | 16105 | 16105 | 16105 |
| GROMMET | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. | 16059 4.5" DIA. |
| LIGHT CONNECTOR 2 PRONG PIGTAIL | 16079 | 16079 | 16079 | 16079 | 16079 | 16079 | 16079 | 16079 | 16079 | 16079 | 16079 |
| LIGHT CONNECTOR 3 PRONG PIGTAIL | 16078 | 16078 | 16078 | 16078 | 16078 | 16078 | 16078 | 16078 | 16078 | 16078 | 16078 |

WARNING
 Always use genuine DEL replacement parts. This is the only way to ensure the part is correctly engineered and specified for the safe operation of the liftgate.



Platforms are available in many different sizes, material types, and special options. The chart below reflects standard sizes only.

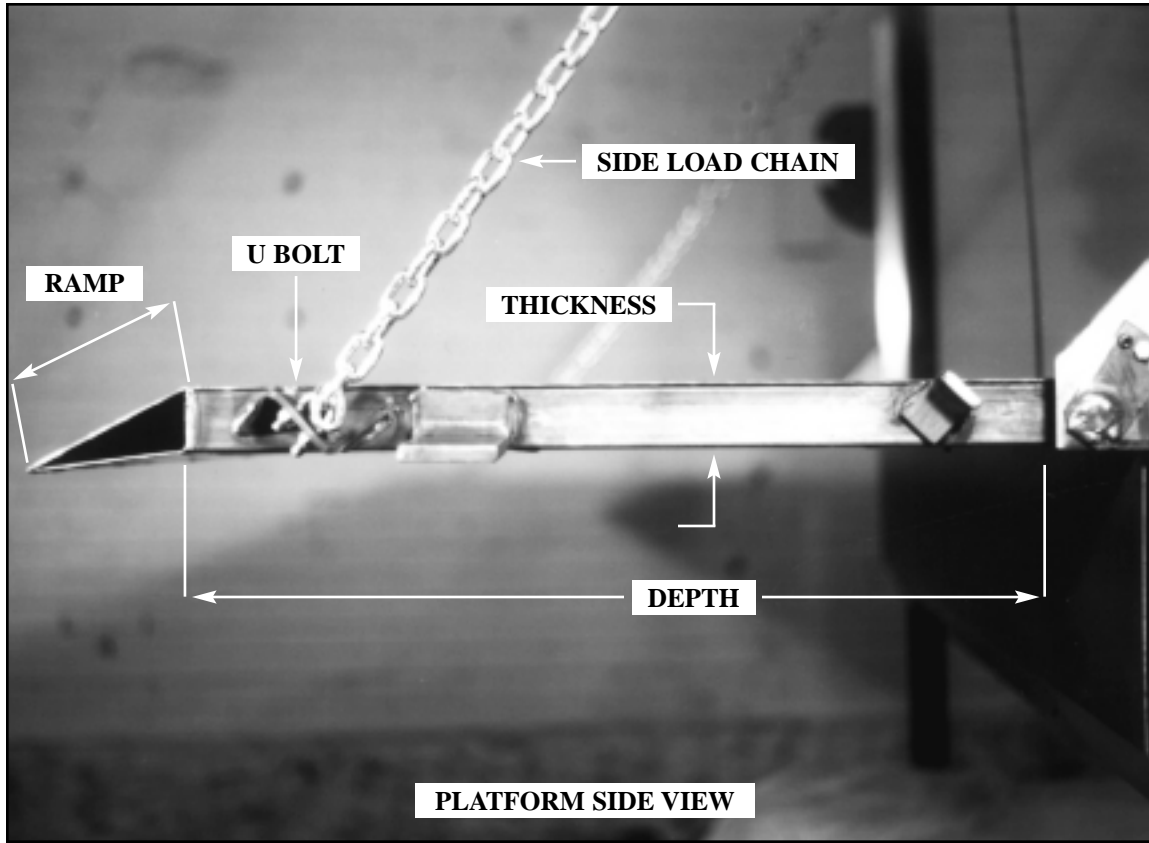
If a platform size cannot be determined in the chart below, be sure to include the following at the time of order:

- Platform size - Length, Width, Ramp, Depth
- Material type - Aluminum, Steel
- Special options - Auto cart stop, Flip ramp, etc.

Note: 57" W x 24" D represents the width x the depth of the platform.

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | | |
|--------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | DL PT 126224 | DL PT 126230 | DL PT 126624 | DL PT 126630 | DL 127830 | DL 129030 | DL 169330 |
| STEEL PLATFORM | 10296 57" W X 24" D | 10297 57" W X 30" D | 10298 61" W X 24" D | 10299 61" W X 30" D | 12298 73" W X 30" D | 12299 85" W X 30" D | 16372 88" W X 30" D |
| SIDE LOAD CHAIN | 20213 | 20213 | 20213 | 20213 | 20213 | 20213 | 20213 |
| U BOLT WITH LOCKNUT | 16198 | 16198 | 16198 | 16198 | 16198 | 16198 | 16198 |
| STEEL CHAIN ANCHOR LH/RH TRAV- | 20298 | 20298 | 20298 | 20298 | 20298 | 20298 | 20298 |
| EL EAR | 10247 | 10247 | 10247 | 10247 | 10247 | 10247 | 20221 |
| HINGE TUBE WITH BUSHING | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. |

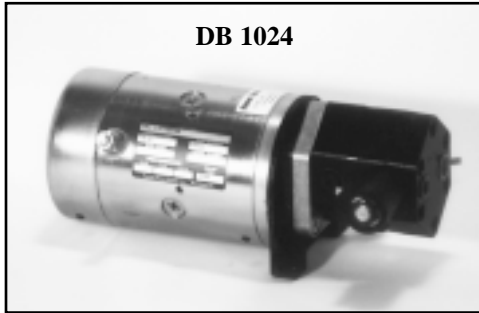
PLATFORM



When ordering platform please provide the following dimensions: Thickness (T) _____
 Depth (D) _____
 Ramp (R) _____

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | | |
|---------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| | DL 169336 | DL 209530 | DL 209536 | DL 209542 | DL 309530 | DL 309536 | DL 309542 |
| STEEL PLATFORM | 16373 88" W X 36" D | 16372 90" W X 30" D | 20590 90" W X 36" D | 80620 90" W X 42" D | 99087 90" W X 30" D | 90087 90" W X 36" D | 80621 90" W X 42" D |
| SIDE LOAD CHAIN | 20123 | 20123 | 20123 | 20123 | 30213 | 30213 | 30213 |
| U BOLT | 16198 | 16198 | 16198 | 16198 | 30045 | 30045 | 30045 |
| STEEL CHAIN ANCHOR L.H./R.H. | 20298 | 20298 | 20298 | 20298 | 30047 | 30047 | 30047 |
| TRAVEL EAR | 20221 | 20221 | 20221 | 20221 | 20221 | 20221 | 20221 |
| HINGE TUBE WITH BUSHING | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. | 12296 1" I.D. |

RELEASE VALVE & COIL ASSEM-



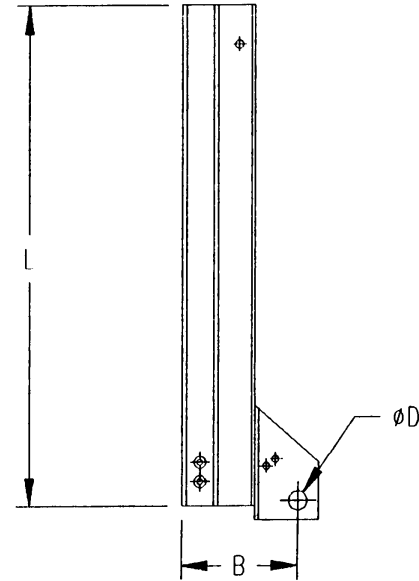
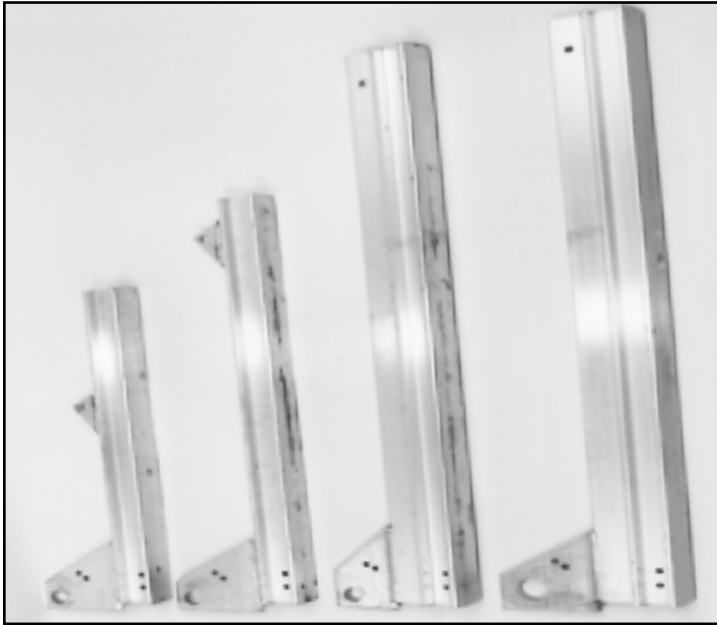
Notes: Monarch M-256 replaces all Power Units with 3" motors (MTE 2894, MTE 3147, M 217).
If a liftgate has hydraulic power open and close then the power unit is part # **40134**.

| DESCRIPTION | PRIOR TO NOV. 1991 | | | NOV. 1991 TO 1996 | | | |
|----------------------------------|-----------------------|------------------------|-----------------------|-------------------|------------------|--------------------|----------------|
| | DL 10 SB | DL 12, 16 DL 20, 30 | TG | DL 10 SB | PT 12 DL 12 | DL 16, 20 DL 30 | TG |
| POWER UNIT | 16401 MONARCH M256 | 16401 MONARCH M256 | 16401 MONARCH M256 | 20523 DB 1024 | 20523 DB 1024 | 20523 DB 1024 | 16401 M 256 |
| RELEASE VALVE & COIL ASSEMBLY | 10137 | 10137 | 10137 | 10137 | 10137 | 10137 | 10137 |
| PUMP ASSEMBLY | 16407 | 16407 | 16407 | 25178 | 25178 | 25178 | 16407 |
| MOTOR ONLY STANDARD DUTY | 16399 | 16399 | 16399 | 25169 | 25169 | 25169 | 16399 |
| MOTOR ONLY HEAVY DUTY | N/A | N/A | N/A | 25163 | 25163 | 25163 | N/A |

SLIDER

When ordering slider assemblies please provide the following dimensions:

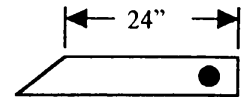
L _____
 B _____
 ØD _____



GENERAL INFORMATION

When ordering Sliders for a liftgate built with a 24" depth platform be sure to include at the time of order part # **10273**.

This adapter is used to reduce the hinge point hole in a slider from 1" to 5/8".



Note: 25" L represents the length (L) of the slider (see figure above).
 1" Ø represents the hole diameter (D).



TERMINATION BLOCK

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | | |
|--------------------------|--------------------|--------------|----------------|--------------------------------------|--------------------------------------|-------------------------------|-------------------------------|
| | PT 12 DL 10 | SB DL 12 | TG | DL 16, DL 20 2" THICK PLATFORM | DL 16, DL 20 3" THICK PLATFORM | DL 30 2" THICK PLATFORM | DL 30 3" THICK PLATFORM |
| SLIDER L.H. | 10053 | 12055 | 16008 | 20536 | 16008 | 20536 | 16008 |
| | 25" L X 1" Ø | 31" L X 1" Ø | 40" L X 1.5" Ø | 40" L X 1" Ø | 40" L X 1.5" Ø | 40" L X 1" Ø | 40" L X 1.5" Ø |
| SLIDER R.H. | 10052 | 12054 | 16007 | 20535 | 16007 | 20535 | 16007 |
| | 25" L X 1" Ø | 31" L X 1" Ø | 40" L X 1.5" Ø | 40" L X 1" Ø | 40" L X 1.5" Ø | 40" L X 1" Ø | 40" L X 1.5" Ø |
| TERMINATION BLOCK | 20006 | 20006 | 20006 | 20006 | 20006 | 30002 | 30002 |



GENERAL INFORMATION

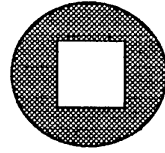
Torsion bar sizes are determined by the following factors at the time of production:

- Size of platform - Length, Width, Depth
- Material type - Aluminum, Steel, Expanded metal, etc.
- Options - Auto cart stops, Flip ramps, etc.

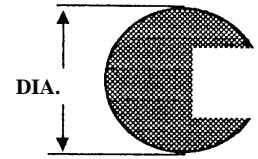
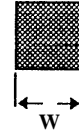
Listed in the chart below are recommended torsion bar requirements for liftgates built with standard size platform. If a liftgate model cannot be determined when ordering a torsion bar, torsion bar assembly, or related part, a simple procedure of measuring the width (W) of the square torsion bar can be done to ensure the correct part at time of order.

TORSION BAR ASSEMBLY

Note: 3/8" W represents the width of the square torsion bar 1"Ø represents the diameter of hinge pin. There are only two sizes available, 1"Ø and 1.5"Ø.



OLD STYLE PIN

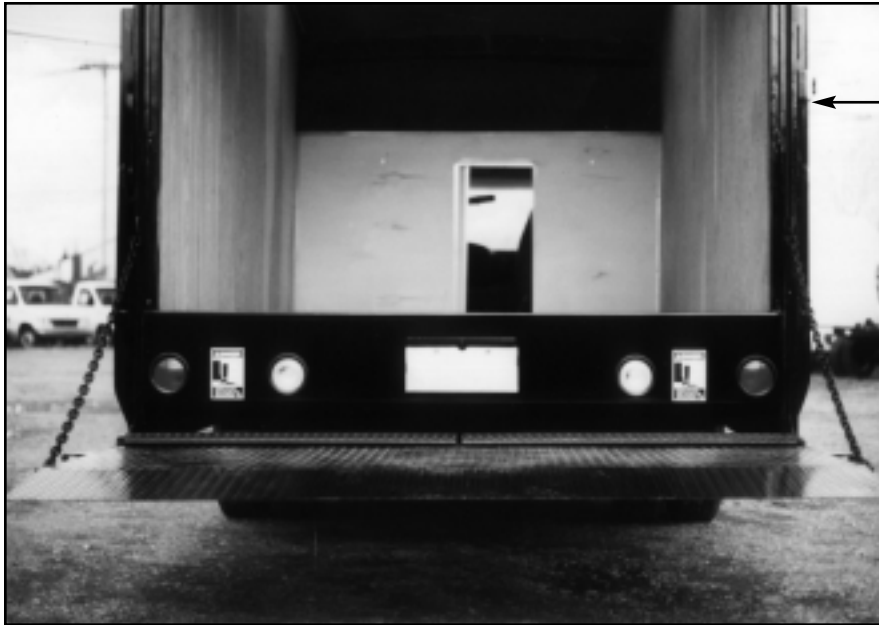


NEW STYLE PIN

| DESCRIPTION | DEL LIFTGATE MODEL | | | | | | |
|--------------------------------|--|----------------------------|---|--|---|---|--|
| | DL 106230 DL 106630 PT 126230 PT 126630 | DL 127830 DL 129030 | DL 169336 DL 209536 3" THICK STEEL | DL 169336 DL 209536 ALUM PLAT. | DL 169330 DL 209530 3" THICK STEEL | DL 169336 DL 209536 DL 309530 DL 309536 2" THICK STL. | DL 169342 DL 209542 DL 309542 2" THICK STL. |
| TORSION BAR ASSEMBLY | 1 X 20281 3/8" W X 1" Ø | 2 X 20281 3/8" W X 1" Ø | 1 X 20277 9/16" W X 1.5" Ø | 1 X 20278 0.5" W X 1.5" Ø | 1 X 20278 0.5" W X 1.5" Ø | 1 X 20281 1 X 20280 | 2 X 20280 0.5" W X 1" Ø |
| TORSION BAR ONLY | 20237 3/8" | 20237 3/8" | 20245 9/16" | 20241 0.5" | 20241 0.5" | 1 X 20237 1 X 20241 | 2 X 20241 0.5" W |
| HINGE PIN SLOTTED | 12207 3/8" SLOT | 12207 3/8" SLOT | 20246 9/16" SLOT | 20242 0.5" SLOT | 20242 0.5" SLOT | 1 X 12207 1 X 12214 | 2 X 12214 0.5" SLOT |
| HINGE PIN BLANK | 12209 1" DIA X 6" LONG | N/A | 16209 1.5" D X 6" L | 16209 1.5" D X 6" L | 16209 1.5" D X 6" L | N/A | N/A |
| INTERNAL SUPPORT | 12206 3/8" SLOT | 12206 3/8" SLOT | 20248 9/16" SLOT | 20244 1/2" SLOT | 20244 1/2" SLOT | 1 X 12206 1 X 20595 | 2 X 20295 |
| HINGE COLLAR W/SETSCREW | 12213 1" I.D. | 12213 1" I.D. | 20205 1.5" I.D. | 20205 1.5" I.D. | 20205 1.5" I.D. | 12213 1" I.D. | 12213 1" I.D. |
| LOCKING TAB | 12208 1" I.D. | 12208 1" I.D. | 16208 1.5" I.D. | 16208 1.5" I.D. | 16208 1.5" I.D. | 12208 1" I.D. | 12208 1" I.D. |

Properly placed warning decals are a good way to prevent injury. Check all safety decals are in place and are legible. Any missing decals **MUST** be replaced immediately. Replacement decals may be obtained **FREE** of charge from your distributor or by phoning, writing, or faxing us.

Following are the proper decals that you should have and their proper locations:



PASSENGER'S SIDE DECALS

WARRANTY INFORMATION

You have just purchased a DEL LIFTGATE. With careful maintenance and operation it should give you years of trouble free use. If a problem does develop, contact your liftgate Distributor. They are best equipped to service your liftgate. If you think you have a WARRANTY CLAIM, please follow this procedure.

1. Carefully read the Warranty Registration Form found with your Parts manual. Our warranty is for 3 years on the mechanical structure, 2 years on the entire liftgate against faulty material and workmanship. Parts and labor only will be covered for the remaining 2 years of the warranty period.
2. If you have suspected warranty problems, contact the distributor from whom you purchased the liftgate. They will normally process your claim from start to finish.
3. Your distributor will repair your liftgate and get you on the road as quickly as possible. They may invoice you for this service. If the problem is found to be warrantable by Del Liftgates, Del Liftgates will issue your Distributor a credit which should then be credited to you.