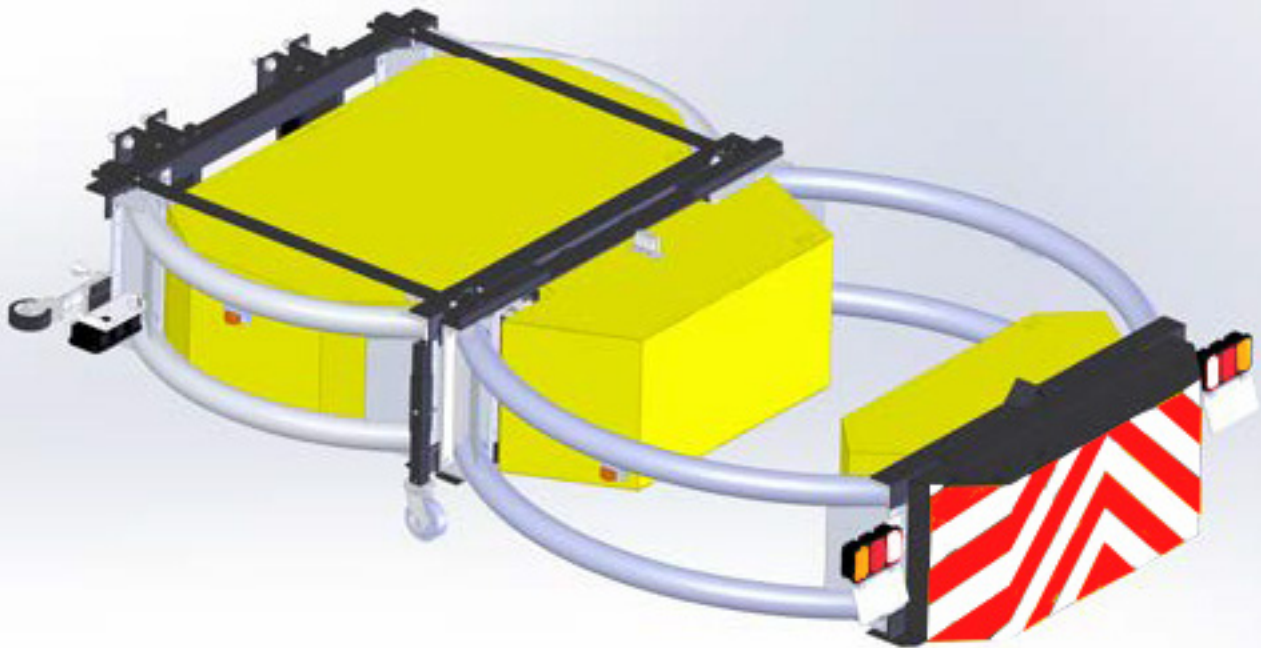


Replacement Parts Guide **For TraFFix Scorpion NCHRP-350 TMA**



**TraFFix
Devices Inc.** 
Engineered Products for Safer Highways

November 2019

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Telephone: (03) 9765 9400 Email: sales@a1roadlines.com.au Website: www.a1roadlines.com.au

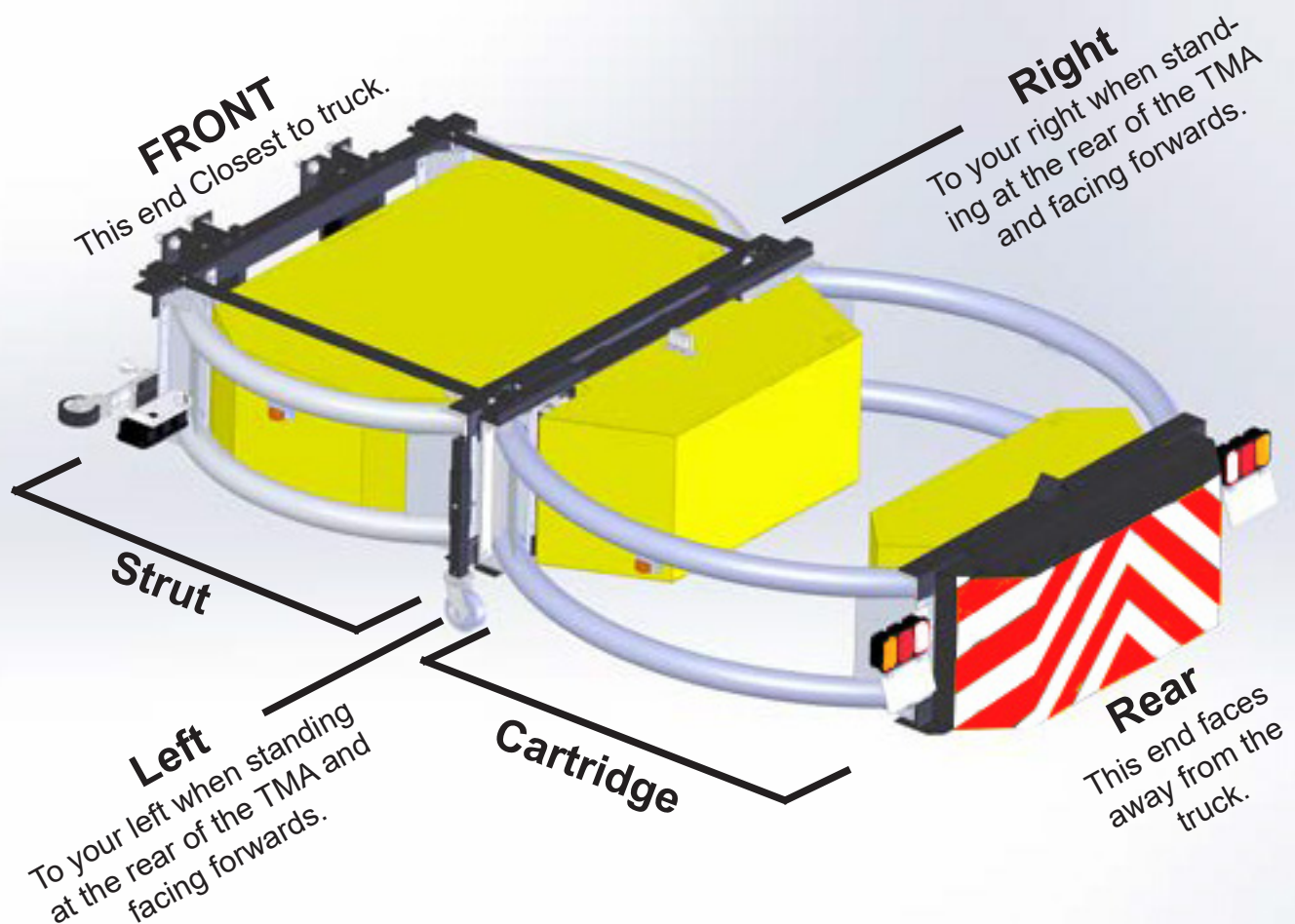
Version 1.0

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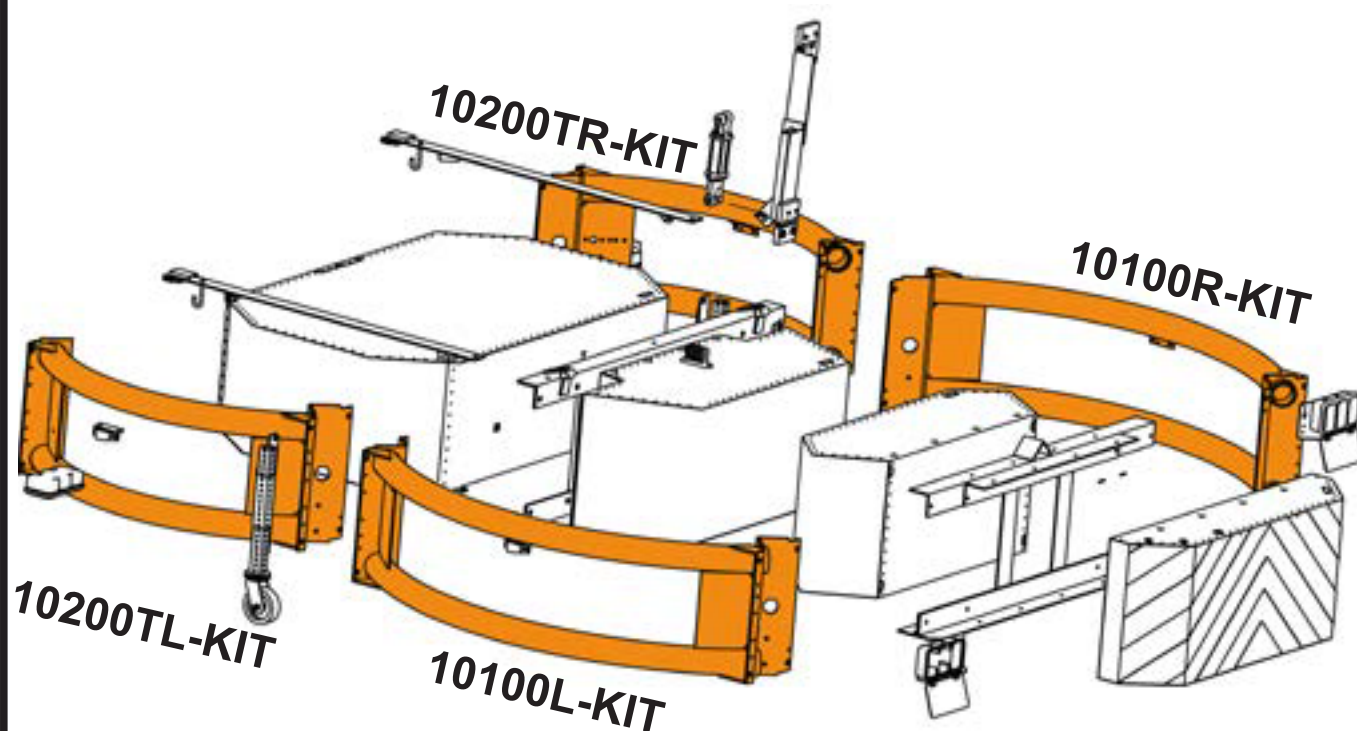
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Overview & Orientation

TrafFix Scorpion Truck Mounted Attenuator



Tubes



10200TL-KIT

Strut Tube, Front Left



10200TR-KIT

Strut Tube, Front Right



10100L-KIT

Cartridge Tube, Rear Left

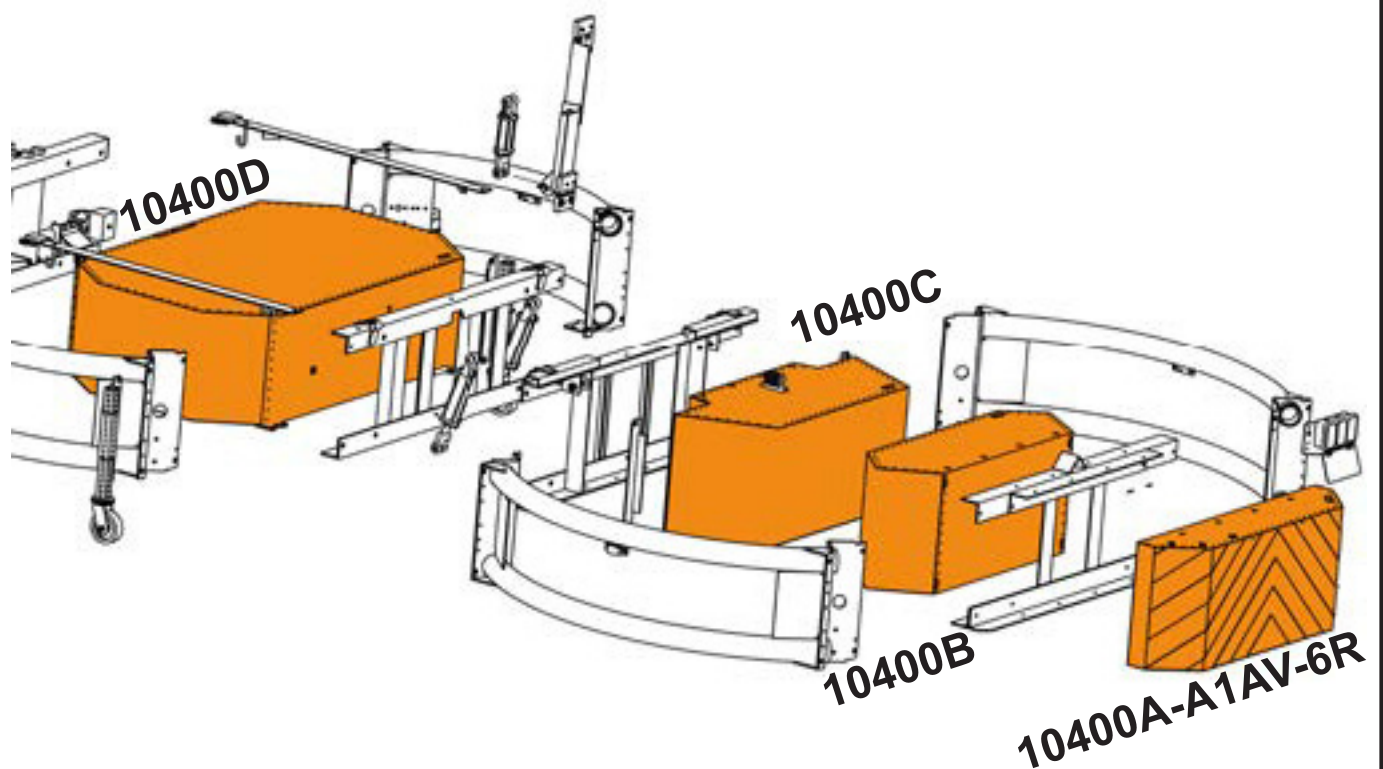


10100R-KIT

Cartridge Tube, Rear Right



Energy-Absorbing Modules





10400D

Module D

Energy-Absorbing Module
Includes Scorpion Logo



10400C

Module C

Energy-Absorbing Module



10400B

Module B

Energy-Absorbing Module

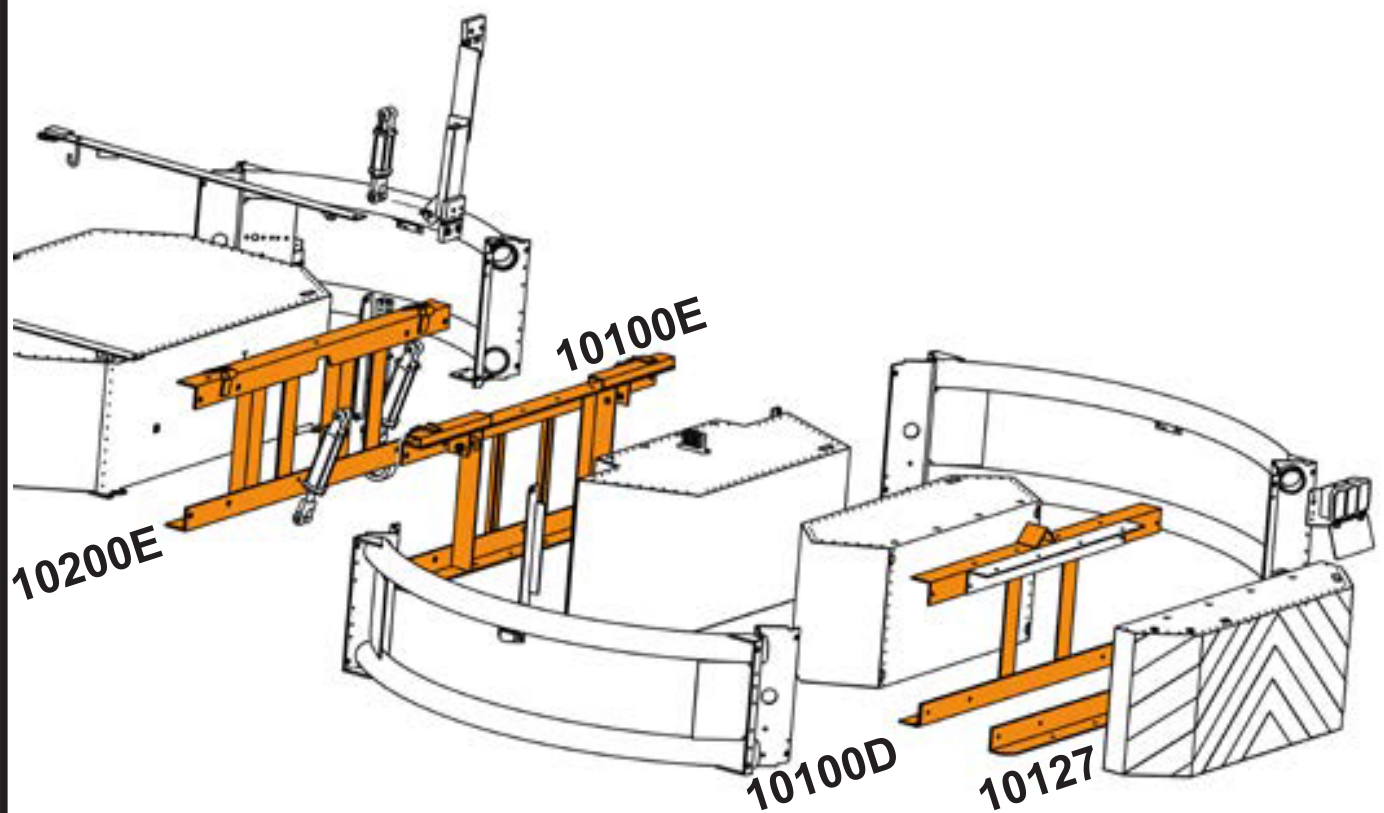


10400A-W1AV-6R

Module A

Energy-Absorbing Module
6" Red Sheeting on White

Diaphragms and Bottom Angle





10200E

Diaphragm

Strut Rear



10100E

Diaphragm

Cartridge Front



10100D

Diaphragm

Cartridge Rear

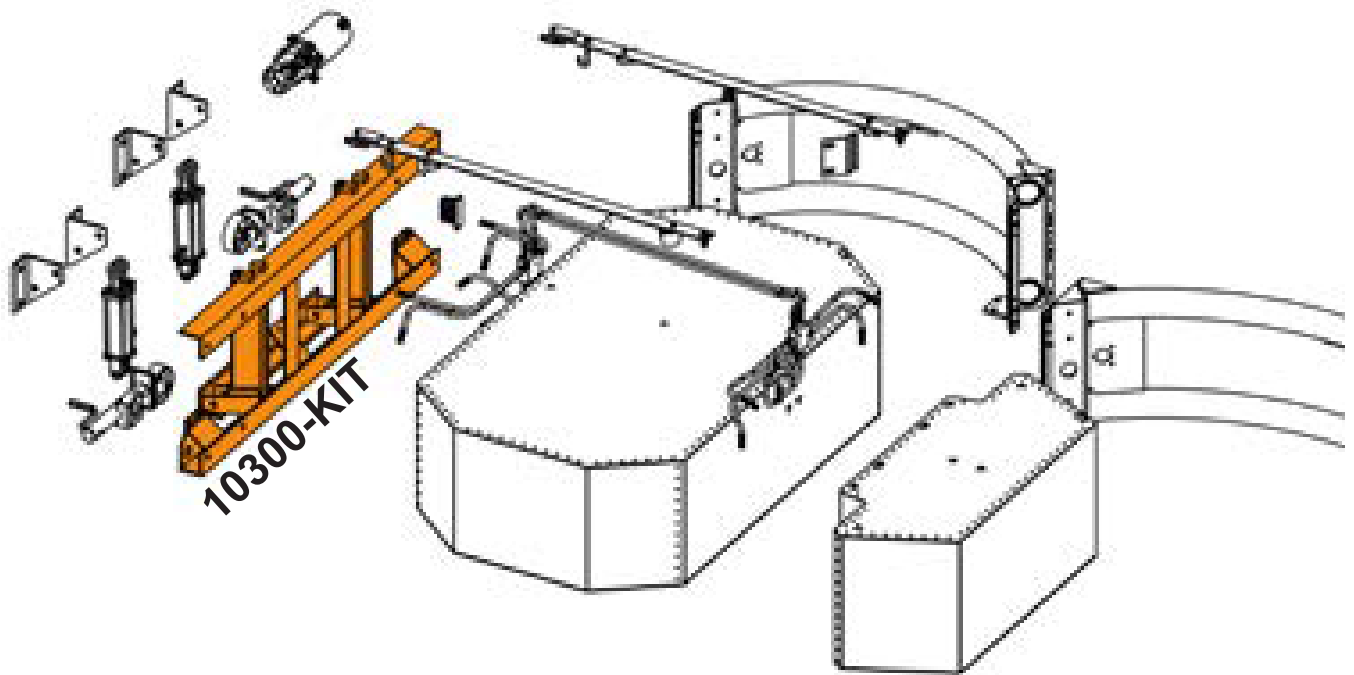


10127

Bottom Angle

Cartridge Rear

Backup Frame



10300-KIT Backup Frame



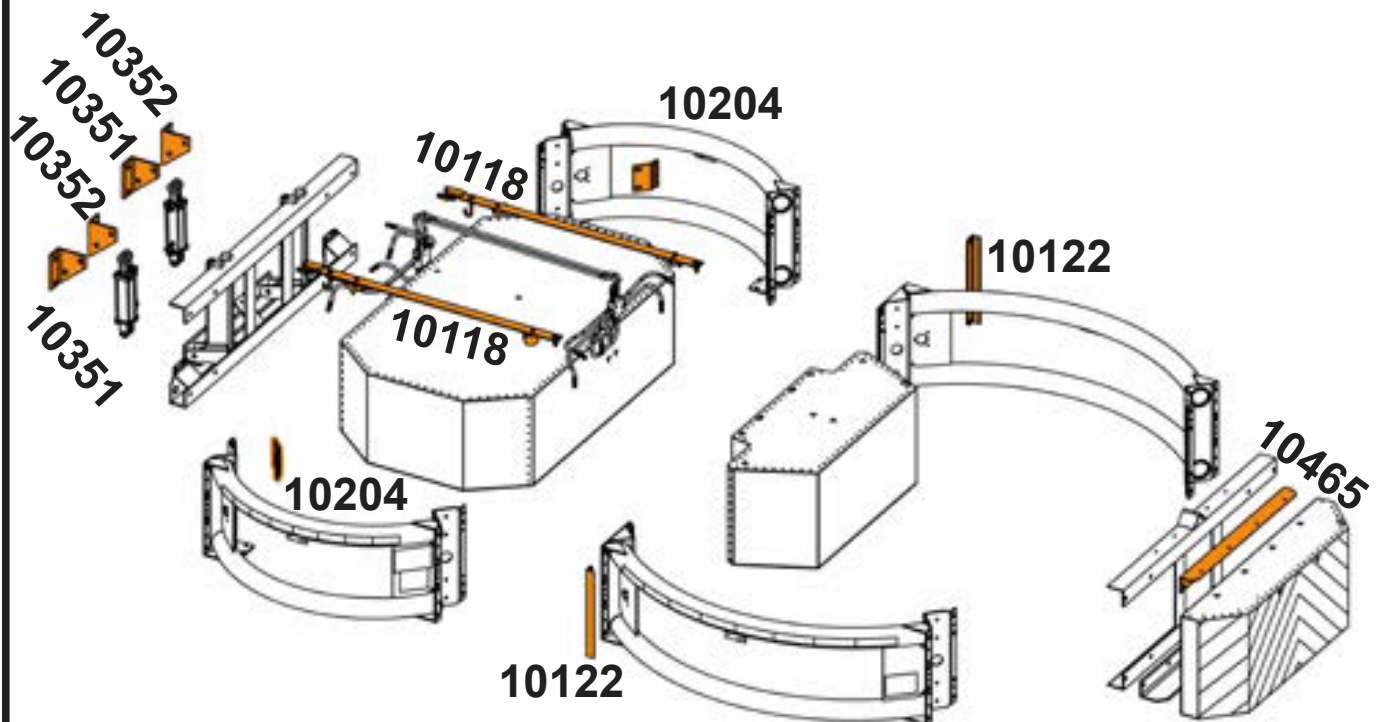
12017



12015-6.0

Includes (2) 1" R Clips & (2) 6" Clevis Pin

Misc. Hardware



Mounting Brackets

Choice of either standard mounting brackets or upgrade kit
These brackets attach the TMA to the host truck.

10352

Left Mounting Bracket
(2 Required)



10351

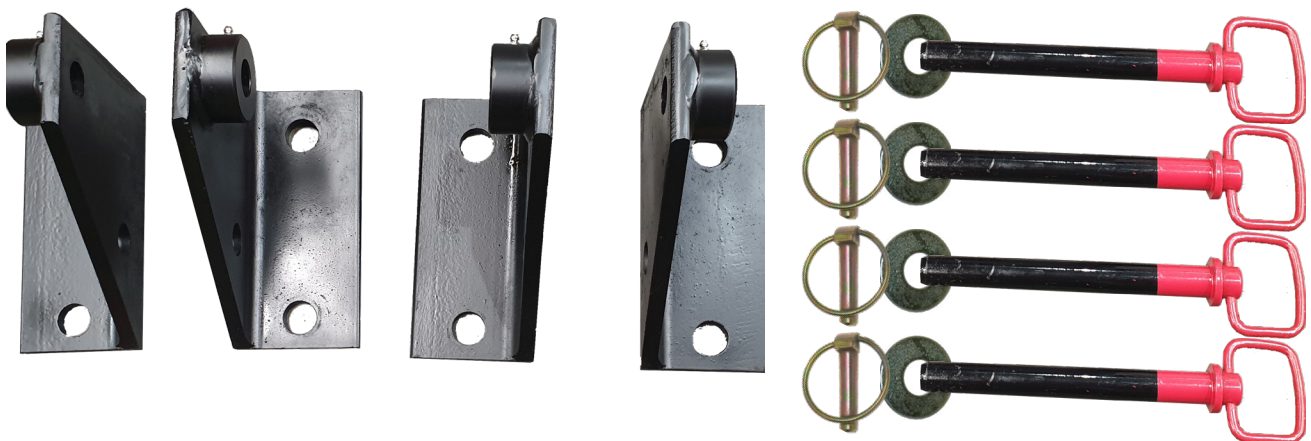
Right Mounting Bracket
(2 Required)



Upgraded Mounting Bracket Kit

Upgraded Mounting Bracket Kit consists of mounting brackets with bushes and grease nipples, red head pins, washers & lynch pins

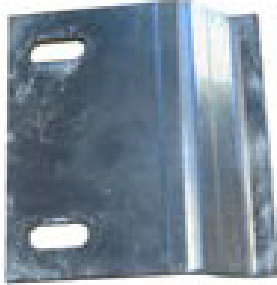
0026-KIT



Includes (4) Angles w/ Bush & Nipple, (4) Lynch Pins, (4) Washers & (4) Redhead Pins

10204

Universal Energy-Absorbing
Bracket
(suitable for left or right)



10118

Universal Tension Strap Set
(comes as pair)



10122

Universal Vertical Support
Angle attaches to cartridge
tube.



10465

Rear Top Angle attaches to
Module A.



12016

1" x 6"/150mm Pivot Pin
Suit Diaphragm Hinge

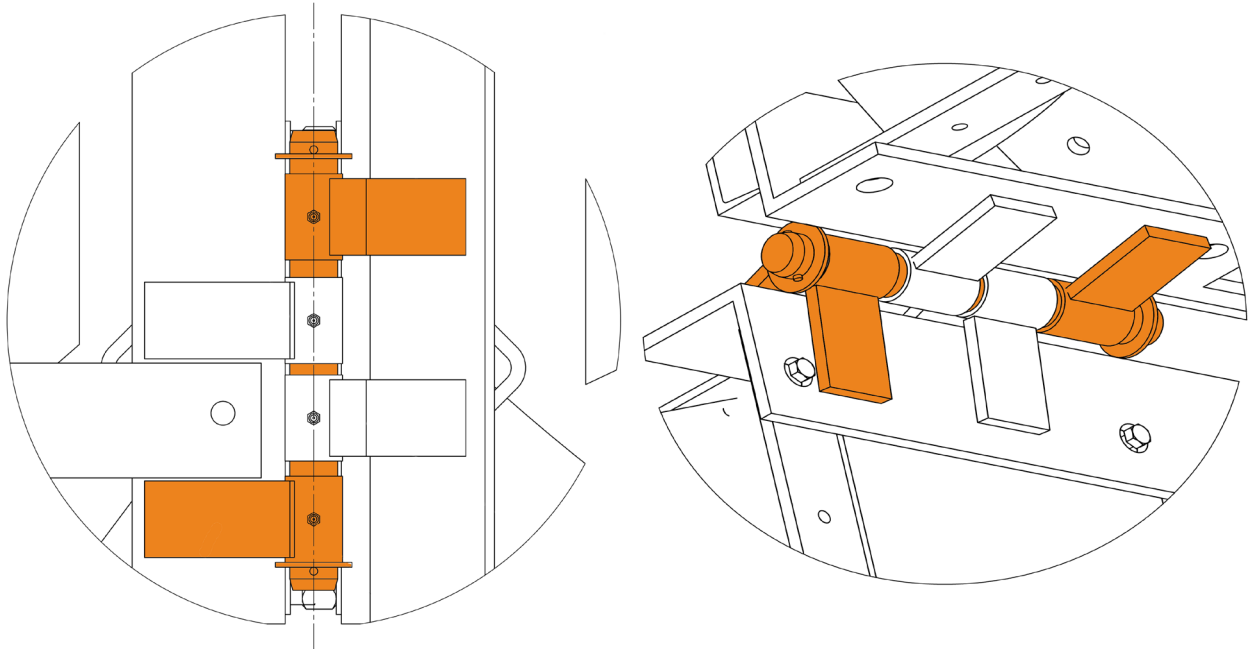


12121

1" x 12"/300mm Pivot Pin
Suit Dual Hinge Diaphragm



Diaphragm Hinge Upgrade



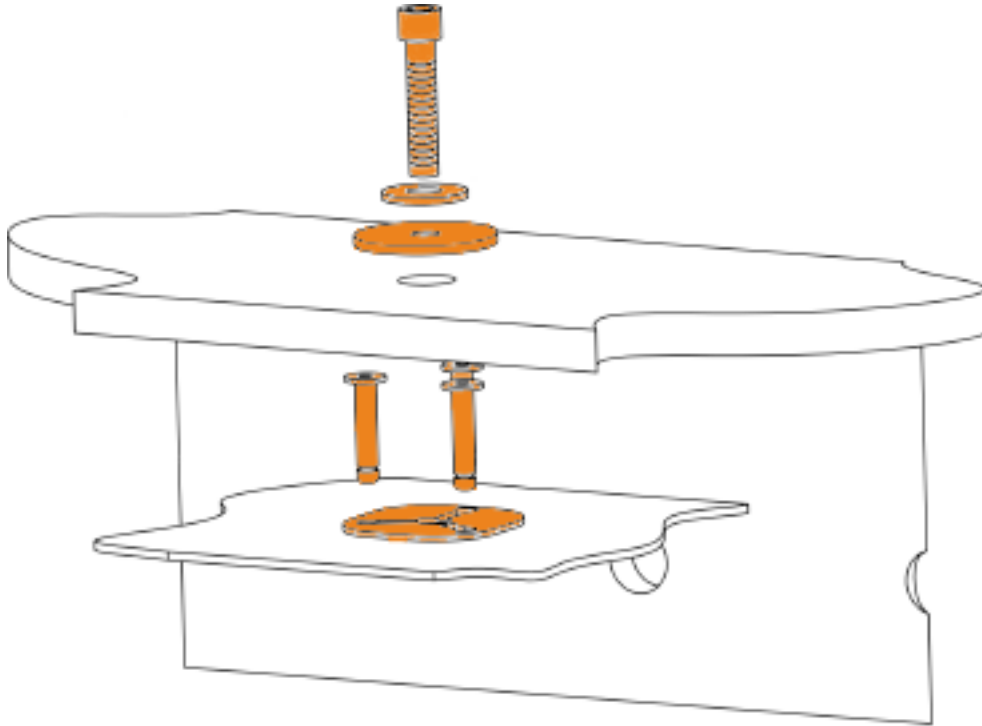
10002HCK-MB-KIT

Diaphragm Dual Hinge Upgrade Kit



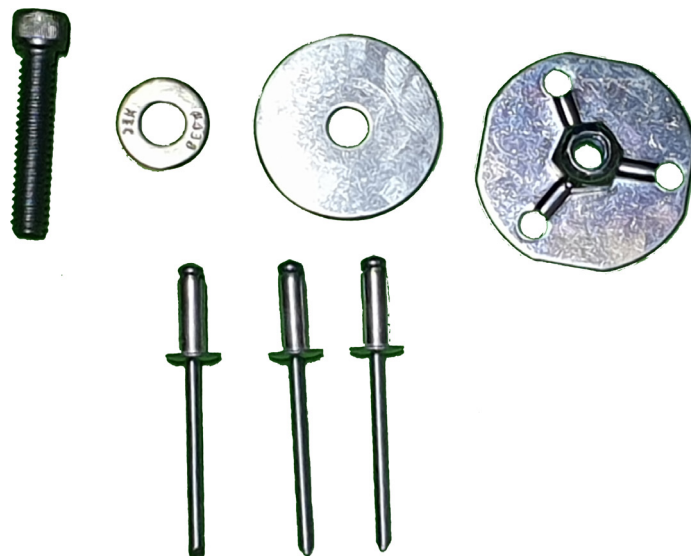
Includes (2) Pins, (4) Bushes, (4) Washers, (4) Grease Nipples, (4) Bolts, (4) Nyloc Nuts, (2) Bent Mounts, (2) Long Mounts & (4) Short Mounts

Module Binding Nut



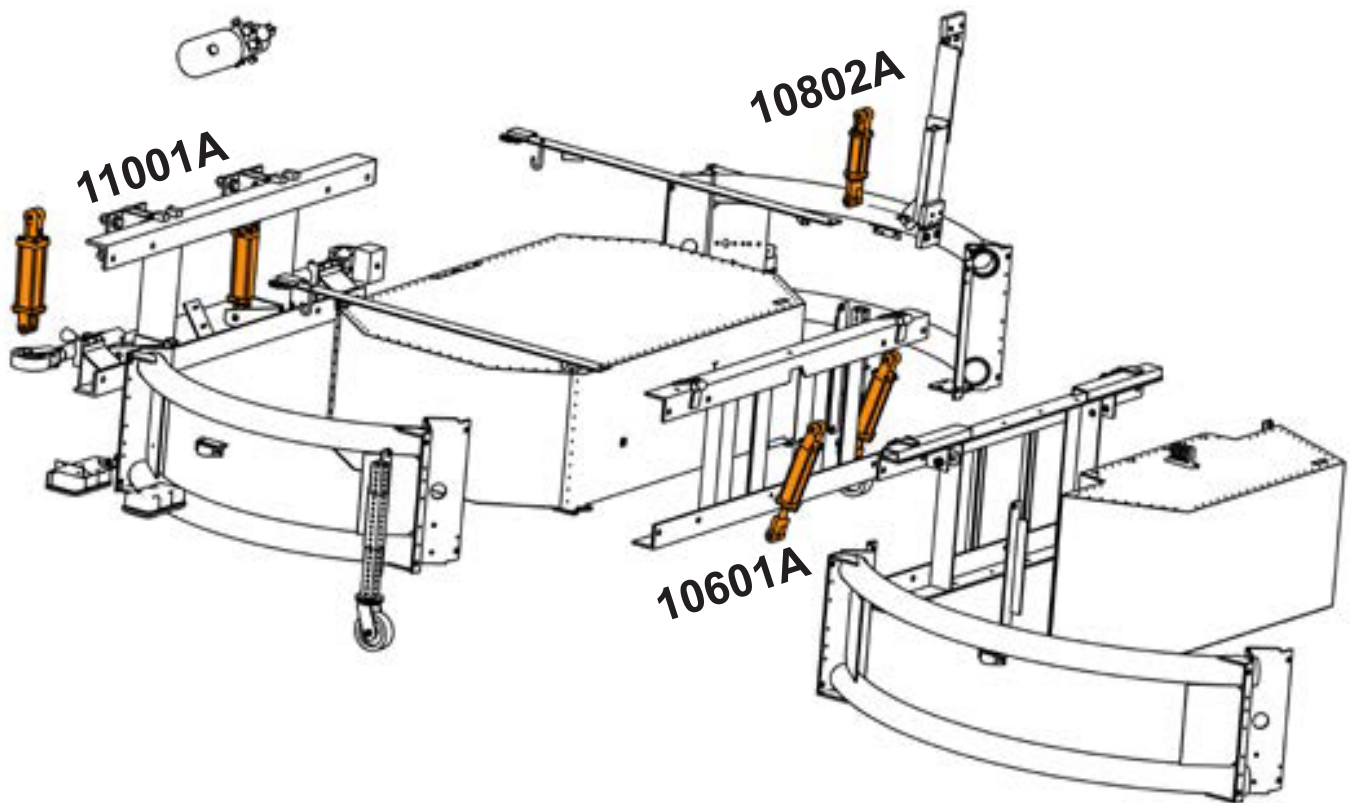
12038-KIT

Module Binding Nut Kit



Includes (1) Allen Key Bolt, (1) Sml Washer, (1) Lrg Washer, (1) Binding Nut & (3) Pop Rivets

Cylinders



11001A

3" Strut Cylinder



Hardware

Not Included
Must be ordered separately



10601A

2.5" Strut to Cartridge Cylinder

Hardware

Not Included
Must be ordered separately



10665
45° Fitting

10681
Pipe Thread
Adapter



10681
Pipe Thread
Adapter



10661
Velocity Fuse

10662
90° Fitting



12012
1" Nyloc
Nut

12011
1" x 5 1/2" Bolt

12033-01
Zinc Cotter Pin



12001
Washer

12015
5" Clevis Pin

10802A

2" Lockout Arm Cylinder

10663

90° Fitting

10681

Pipe Thread
Adapter

10681

Pipe Thread
Adapter

10663

90° Fitting

Hardware

Not Included
Must be ordered separately
12015-3.375

3-3/8" Clevis Pin



12028
Washer



12028
Washer



12033-01

Zinc Cotter Pin

12033-01

Zinc Cotter Pin

12033

SS Cotter Pin

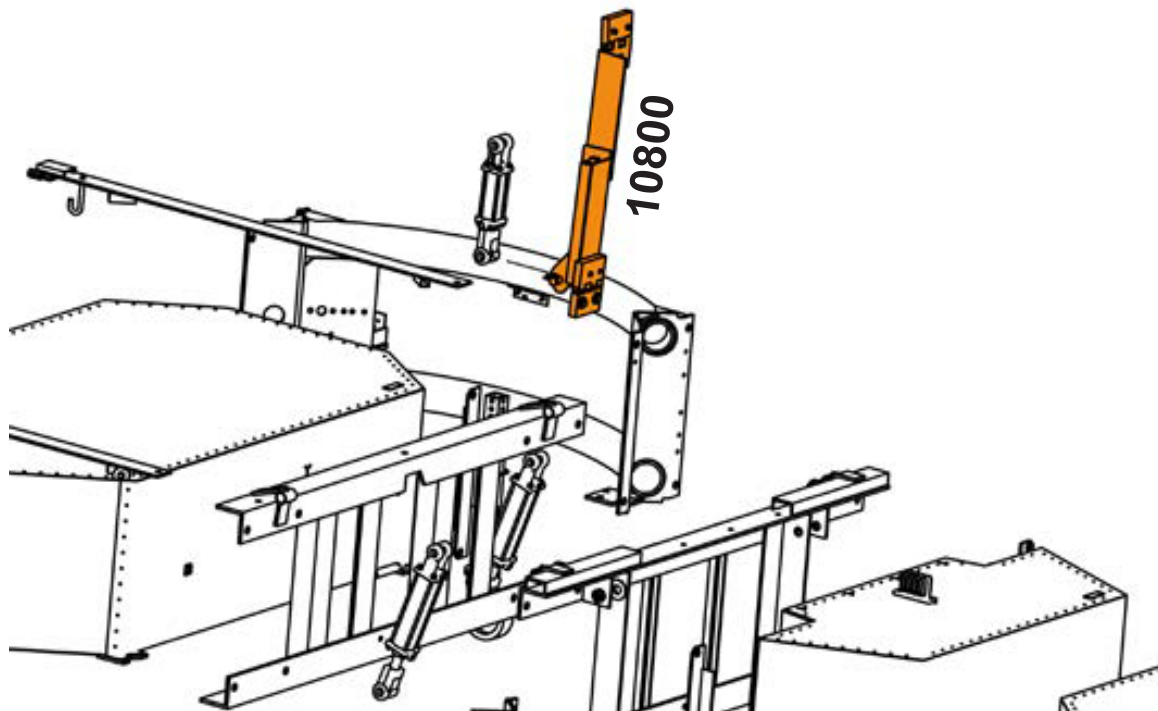


12015

5" Clevis Pin

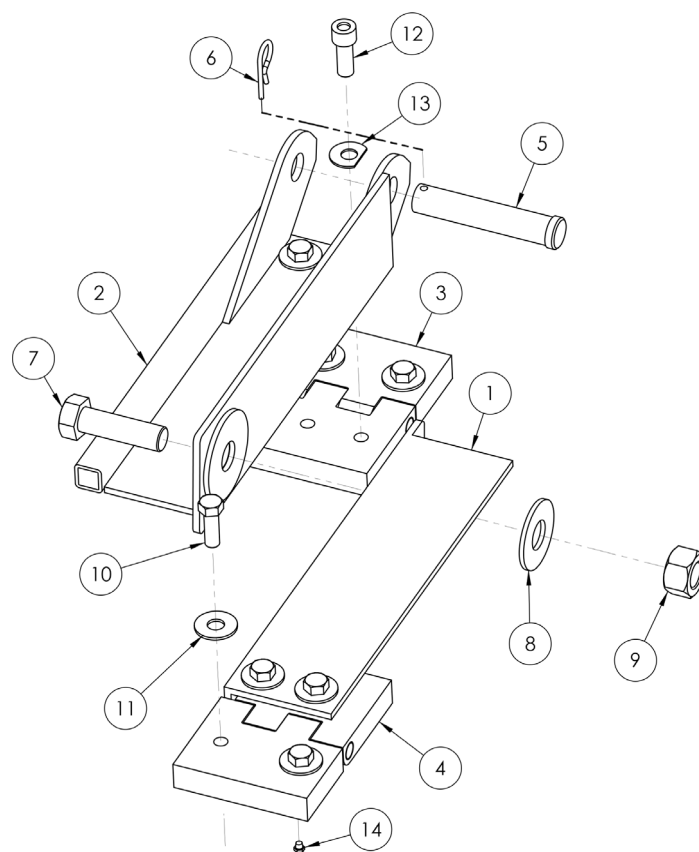


Lockout Arm



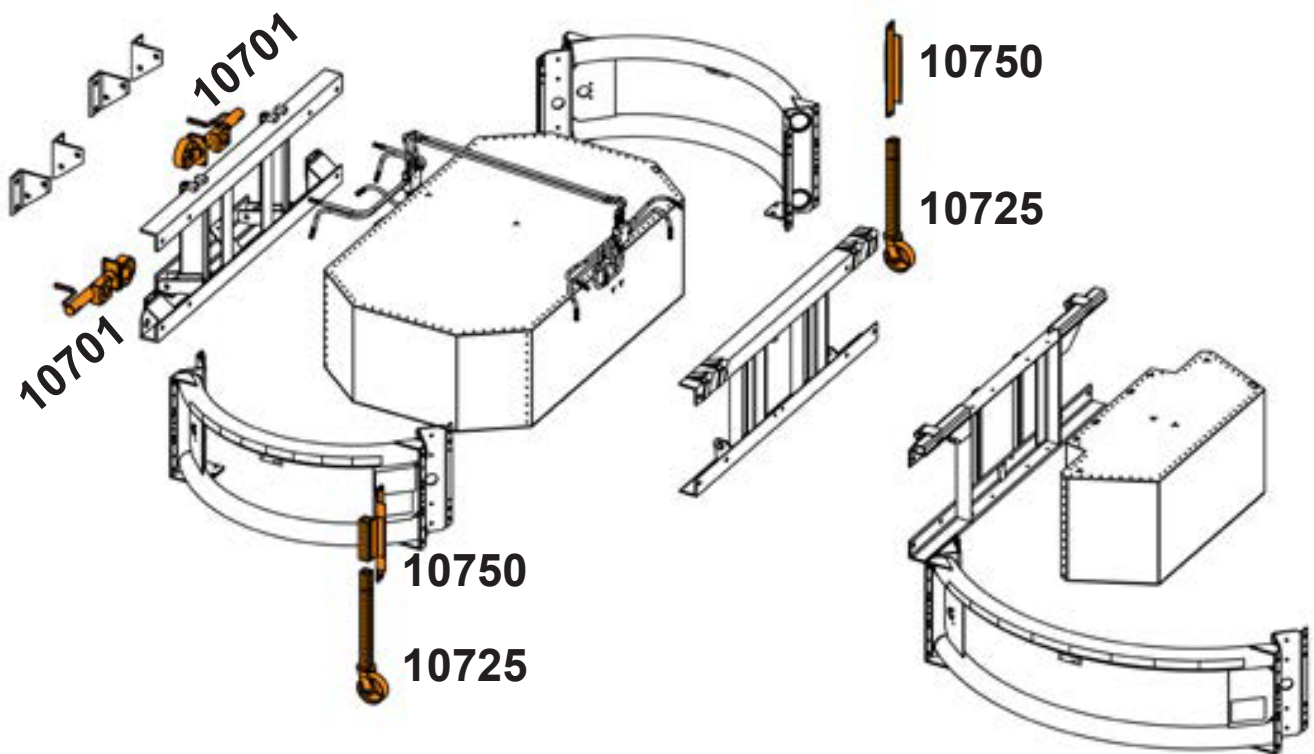
10800





Item No.	Description	Part No.
1	Front Arm, Lockout Assembly	10850
2	Rear Arm, Lockout Assembly	10860
3	Hinge, Strut Side Assembly	12215
4	Hinge Cartridge Side Assembly	12216
5	1" x 5" Zinc Plated Pin Clevis	12015
6	1" Cotter Pin	12017
7	1" x 3" High Tensile Bolt	12010
8	1" ID x 2 1/2" OD Zinc Washer	12028
9	1" Nyloc Nut	12012
10	9/16" x 1 1/2" High Tensile Bolt	12091
11	9/16" ID x 1 3/8" OD Zinc Washer	12075
12	9/16" x 1 1/2" High Tensile Hex Bolt	12240
13	9/16" ID x 1 3/8" OD Zinc D Washer	12241
14	1/4" Grease Nipple	12076

Jacks



Swivel Jacks

Choose from either Regular Duty or Heavy Duty.
Both are universal (suitable for left or right placement).

10701

Regular Duty Swivel Jack



10701MNJ

Heavy Duty Swivel Jack



Drop Jacks

Universal (suitable for left or right placement).

10750

Drop Jack Mounting Bracket



10725

Drop Jack



Electronics

10507C

Motion Alarm
Self Adjusting 87-112db



BBS97SA

Broadband Motion Alarm
Self Adjusting 77-97db



11026

2-Way Switch Controller
with Cable & Connector



54419

Inline ANL Fuse Holder

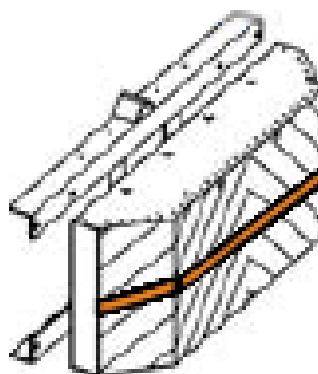


53915

150 Amp ANL Fuse



Automatic Impact Brake



AIB-STRIP

AIB-STRIP

3 Piece Rubber Strip & Aluminium Channel



AIB-24V

Stopguard Automatic Impact Braking System



AIB-0004

Automatic Impact Brake Loom



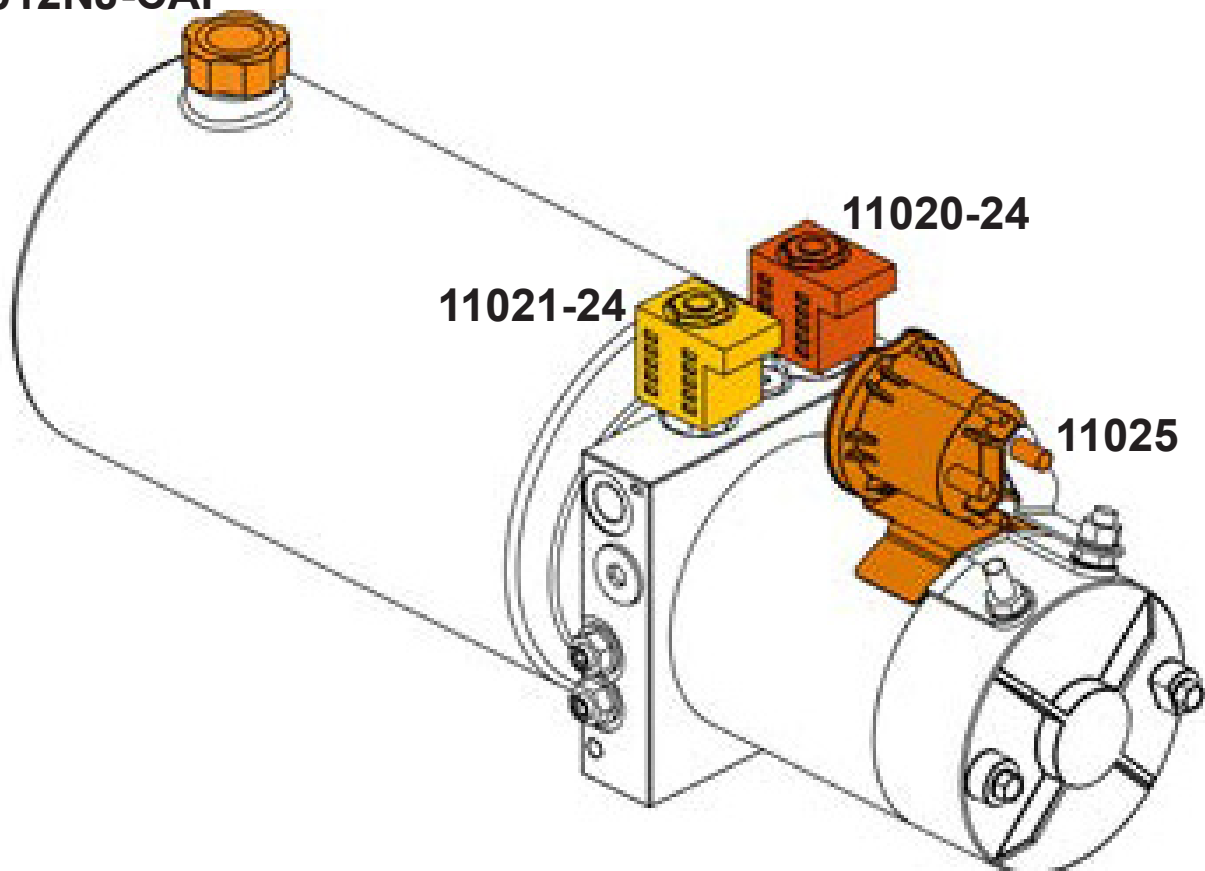
AIB-0007

Impact Guardian Horn Activation Module



Hydraulics

1012NJ-CAP



11010

12 Volt Motor Assembly

Includes Valves, Solenoid and Cap



11011

24 Volt Motor Assembly

11012NJ-CAP

Cap



11024 12 Volt

11025 24 Volt

Solenoid



11020-12 12 Volt

11020-24 24 Volt

C2 Valve



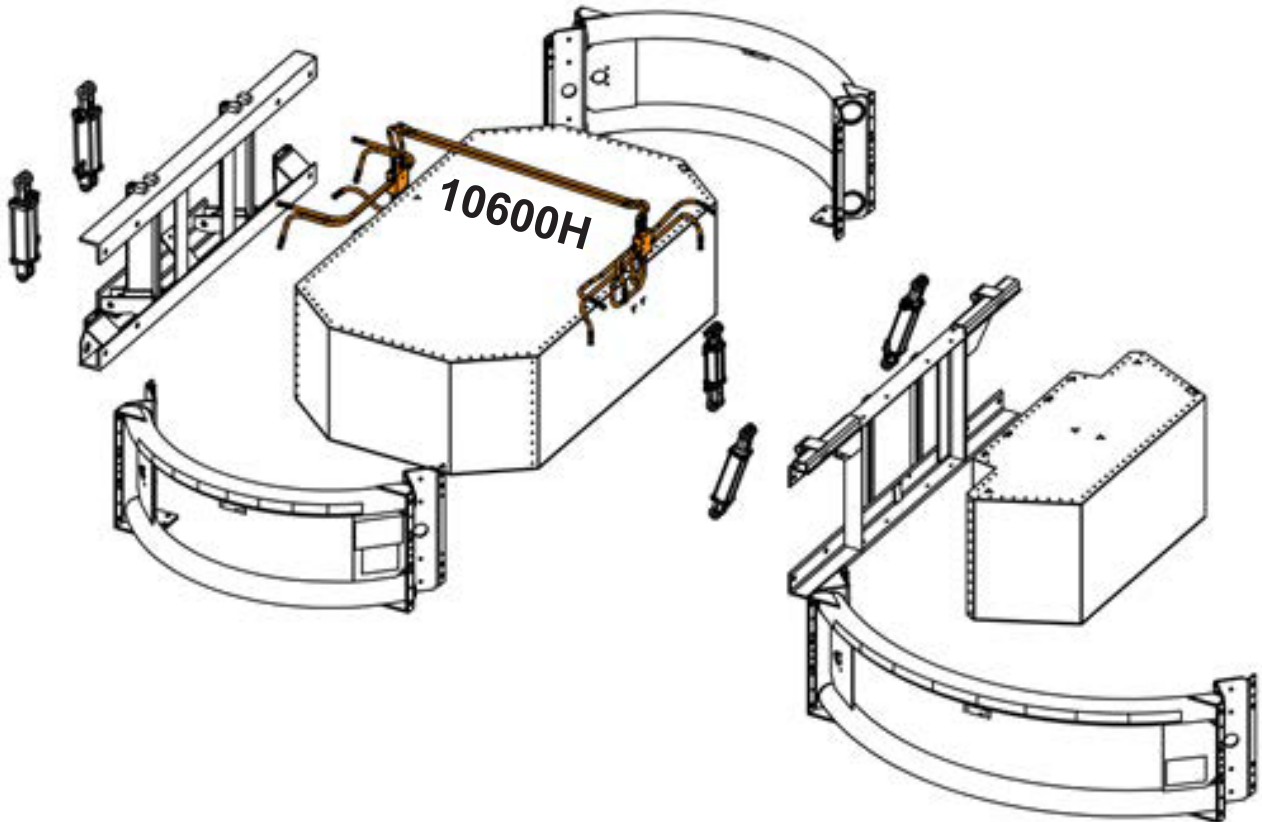
11021-12 12 Volt

11021-24 24 Volt

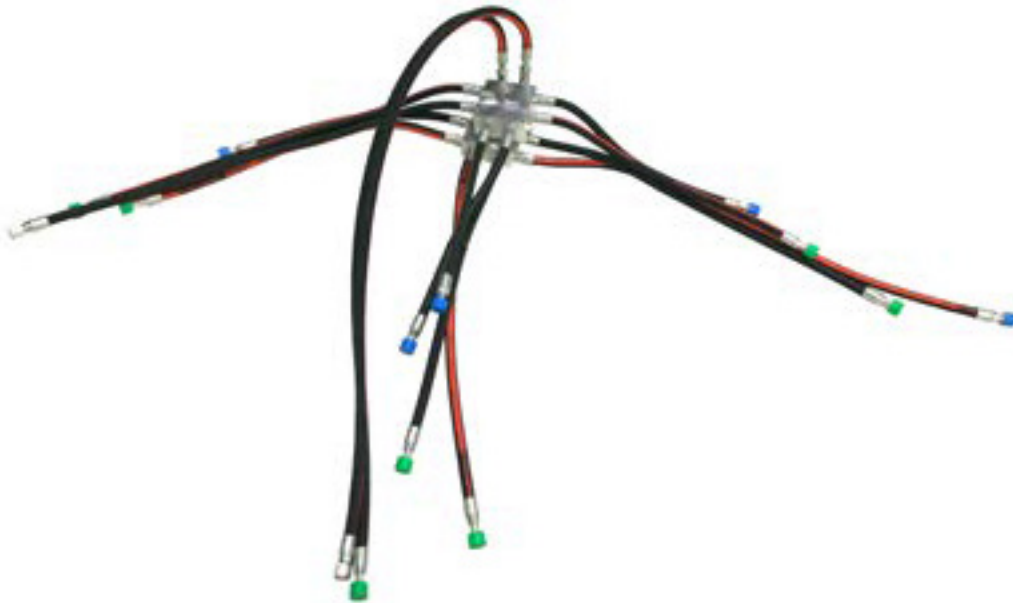
C1 Valve



Hydraulic Hose Kit



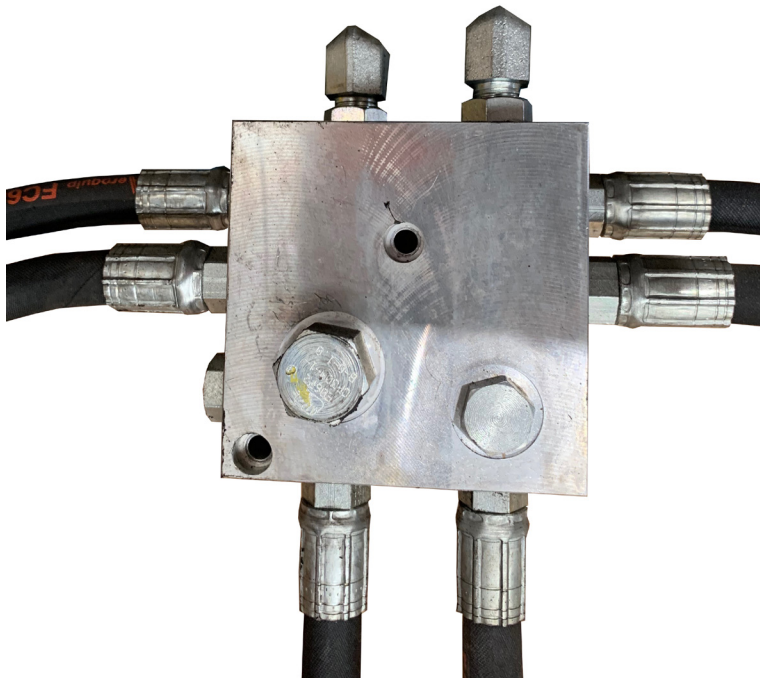
10600H Complete Hydraulic Hose Assembly



Hydraulic Manifolds

10647

Hydraulic Hose Kit Front Manifold



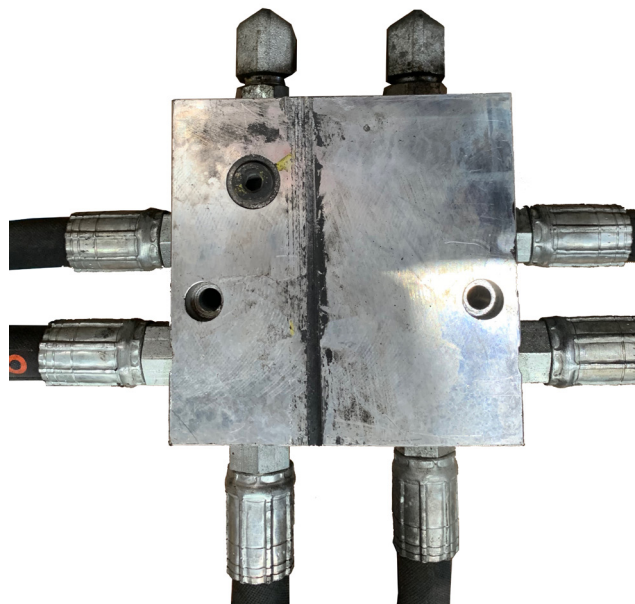
10464-1.8

1.8 GPM Flow Control Valve

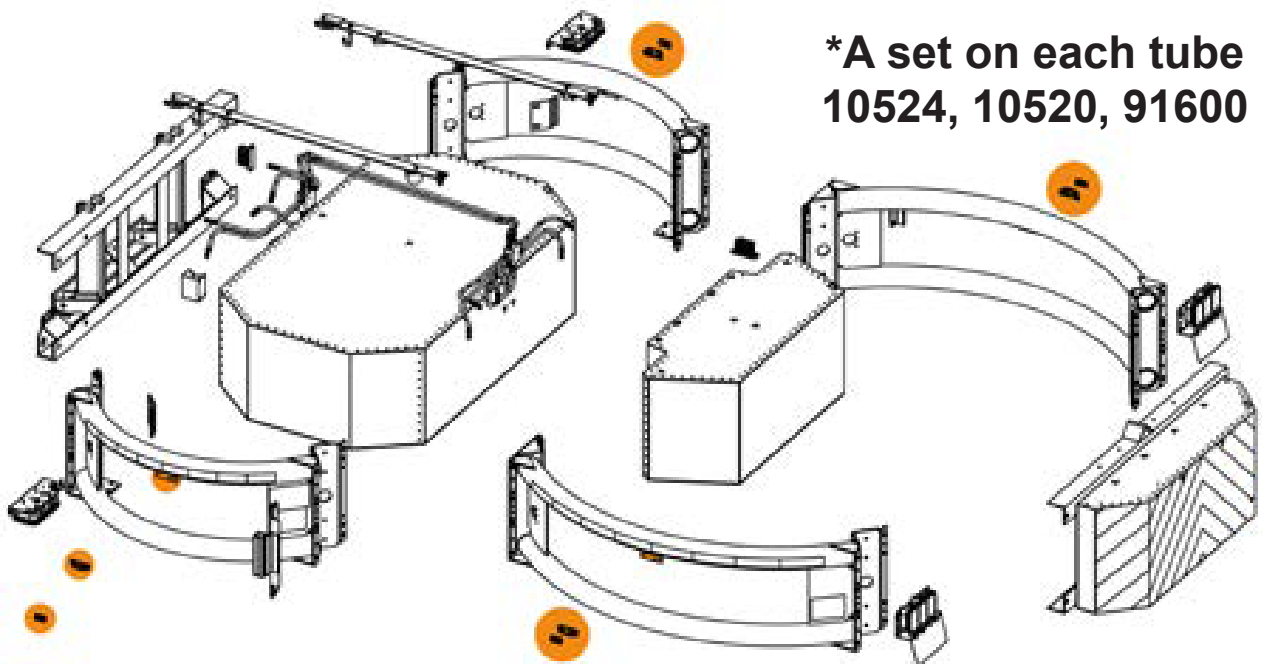


10648

Hydraulic Hose Kit Rear Manifold



Tube Side Marker Lights



10524

Tube Angle
Bracket



10520

Side Marker
Light Bracket

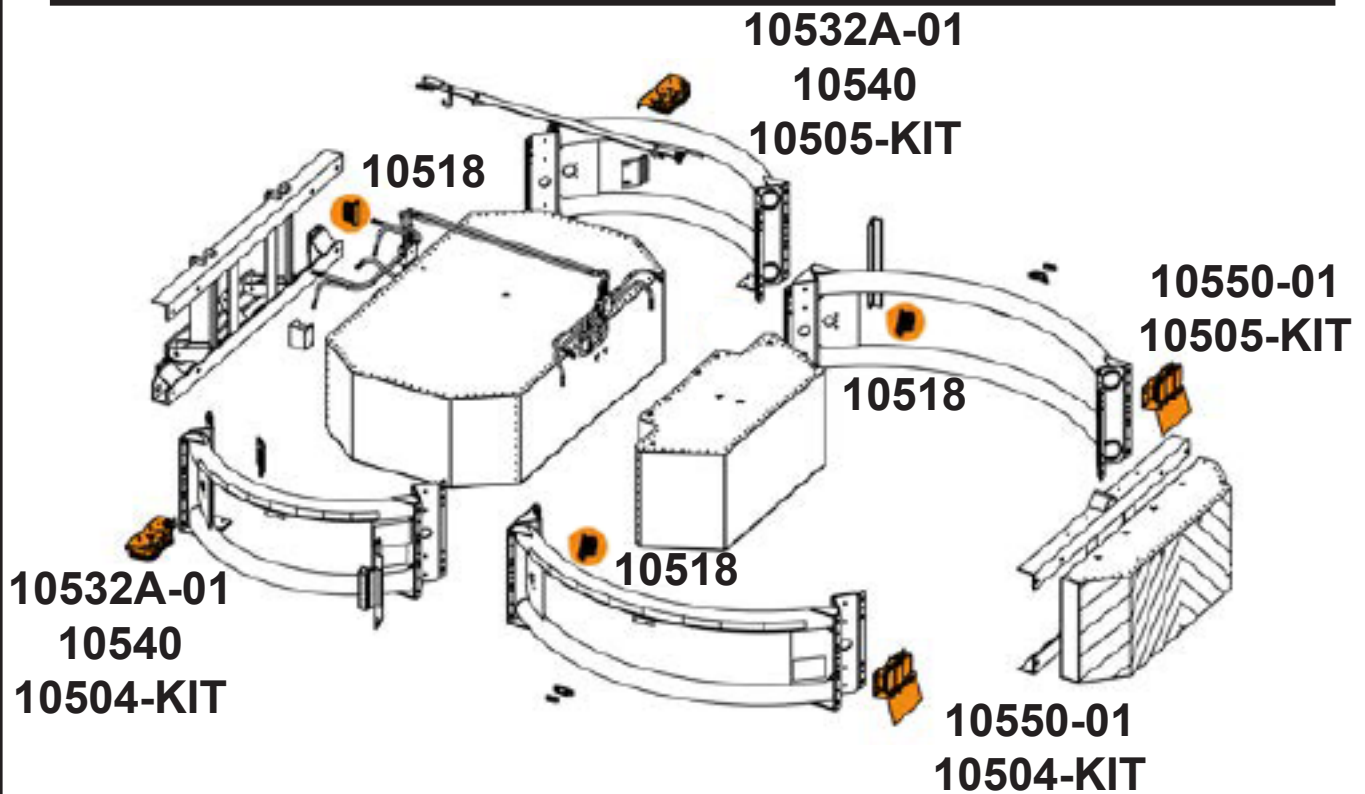


91600

Side Marker Light
Red / Amber LED
Multivolt



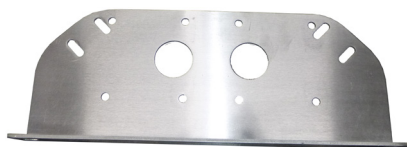
Tail Lights & Junctions



10518 Junction Box



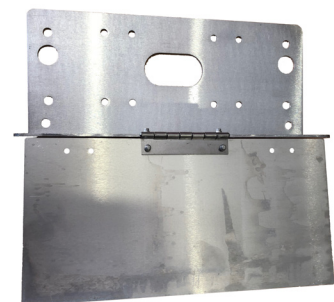
10532A-01 Strut Tail Light Bracket



10540 Strut Tail Light Bracket Adjustment Angle



10550-01 Tail Light Bracket & Aluminium Cover Assy with 1 Hinge



10504-KIT

Complete Left Hand Side
Tail Light Assembly



10505-KIT

Complete Right Hand Side
Tail Light Assembly



94583

3 Module Case With
Cover & Latch



94584

3 Module Cover & Latch



94530

LED Indicator



94608

LED Stop/Tail

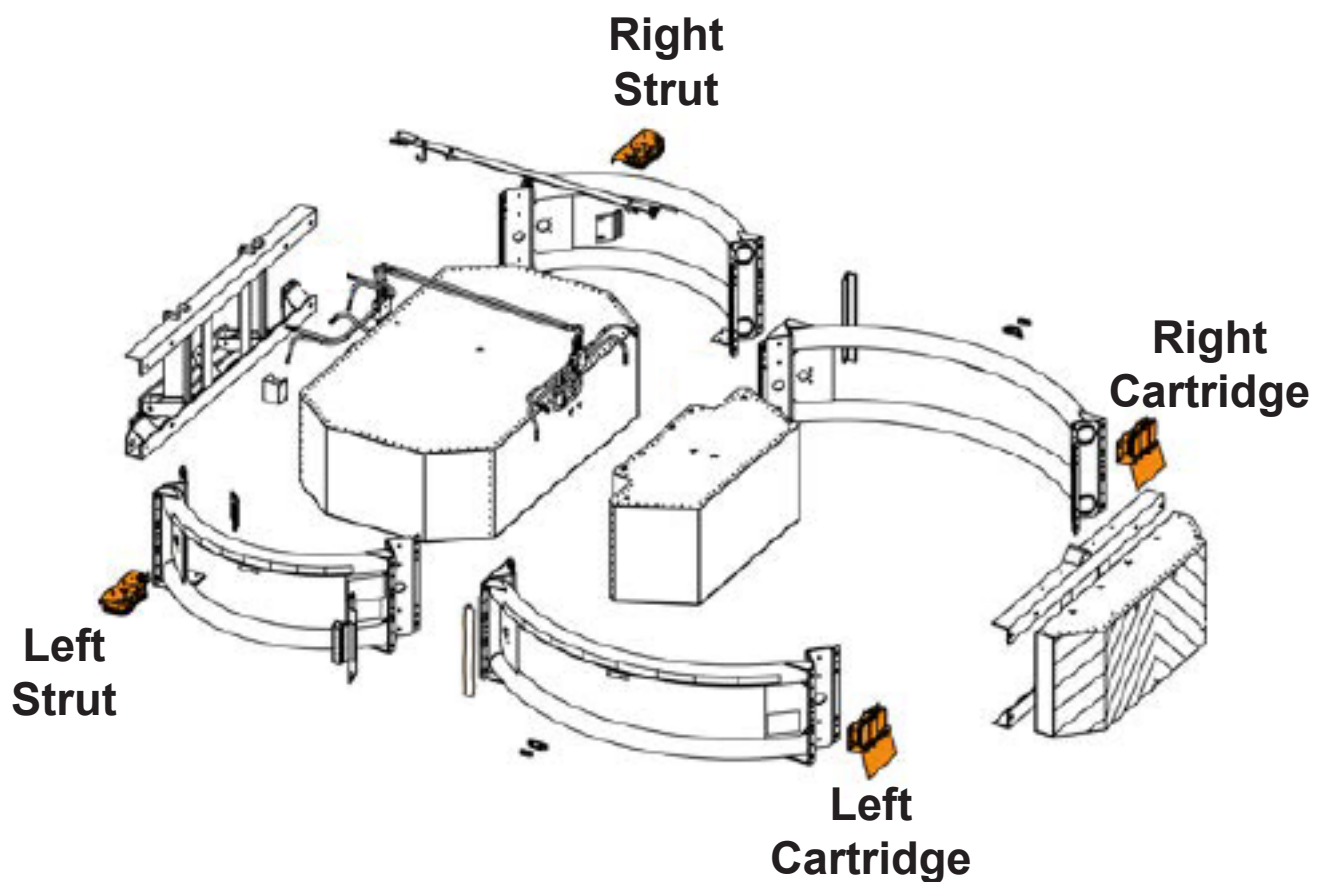


94538

LED Reverse



Marker Lights & Beacons

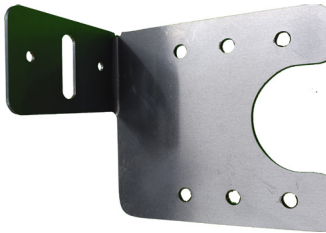


Left Hand Strut

Marker light & beacon brackets to suit left hand strut tail light assembly.

0064-01

Left Hand Side Marker Lamp Bracket



0064-03

Left Hand Side Marker Lamp Bracket with Blinkers



0060

Universal Beacon Mounting Bracket (Left or Right)



Marker light & beacon to suit left hand strut tail light assembly.

85254A

Eurotech Class 1 Multivolt LED Strobe Light



91602

Side Marker Lamp With Black Mounting Bracket



Right Hand Strut

Marker light & beacon brackets to suit right hand strut tail light assembly.

0064-02

Right Hand Side Marker Lamp
Bracket



0064-04

Right Hand Side Marker Lamp
Bracket with Blinkers



0060

Universal Beacon Mounting
Bracket (Left or Right)



Marker light & beacon to suit right hand strut tail light assembly.

85254A

Eurotech Class 1 Multivolt
LED Strobe Light



91602

Side Marker Lamp With
Black Mounting Bracket



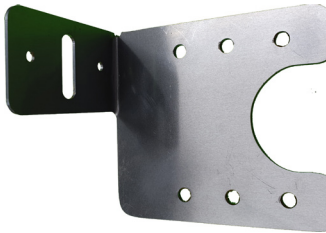
On

Left Hand Cartridge

Marker light & beacon brackets to suit left hand cartridge tail light assembly.

0064-01

Left Hand Side Marker Lamp
Bracket



0060

Universal Beacon Mounting
Bracket (Left or Right)



Marker light & beacon to suit left hand cartridge tail light
assembly.

85254A

Eurotech Class 1 Multivolt
LED Strobe Light



91602

Side Marker Lamp with
Black Mounting Bracket



Right Hand Cartridge

Marker light & beacon brackets to suit right hand cartridge tail light assembly.

0064-02

Right Hand Side Marker Lamp
Bracket



0060

Universal Beacon Mounting
Bracket (Left or Right)



Marker light & beacon to suit right hand cartridge tail light assembly.

85254A

Eurotech Class 1 Multivolt
LED Strobe Light



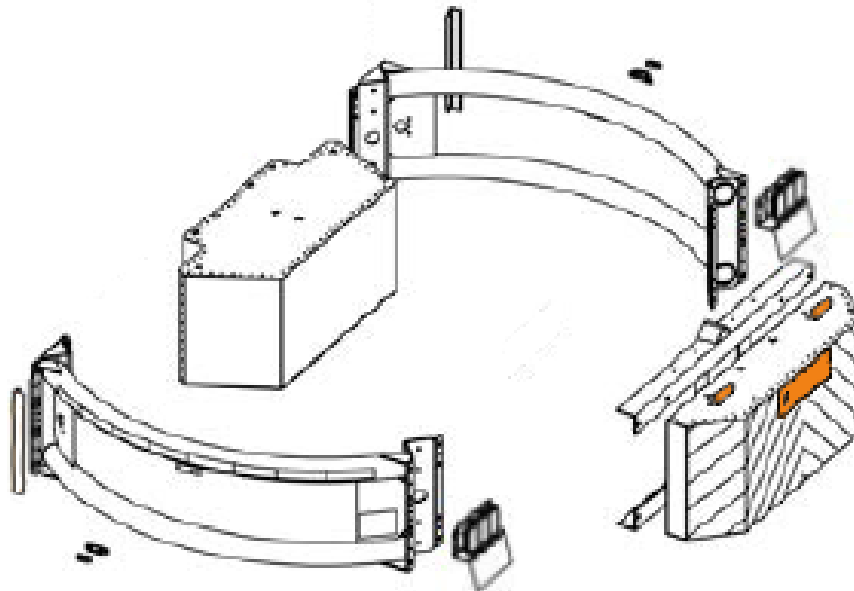
91602

Side Marker Lamp with
Black Mounting Bracket

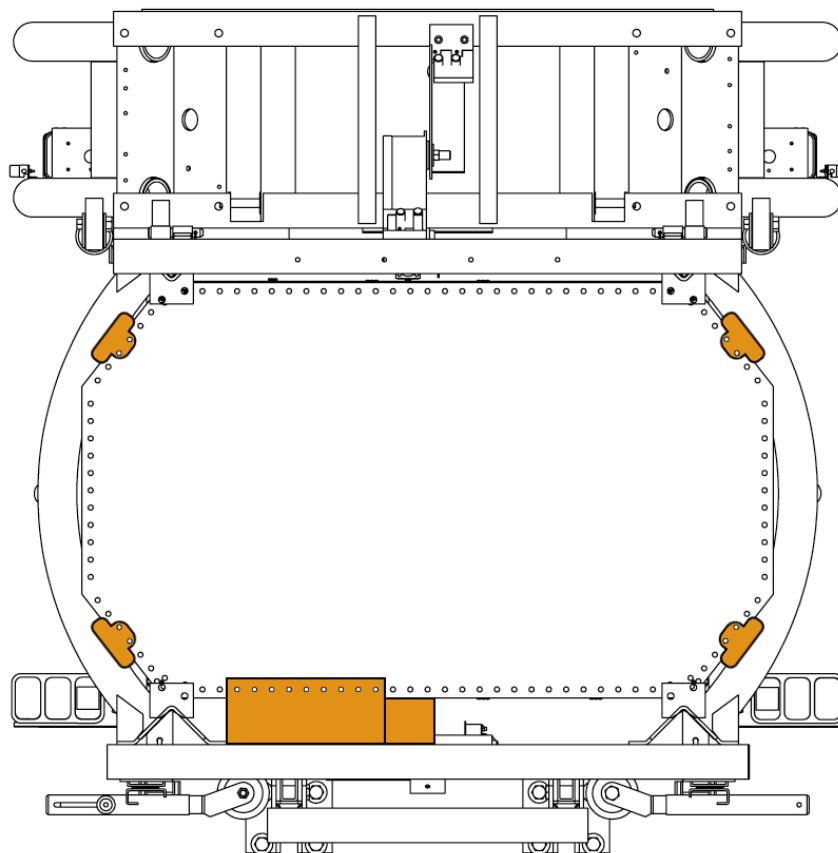


On

LED Strobe & Number Plate



Module A



Module D

Module A

LED strobe brackets and number plate bracket to suit module A.

0063-01

LED Strobe Mounting
Bracket Module A



0062-01

Number Plate Bracket
Module A



LED strobe light and number plate light to suit module A.

85214A

Multivolt Low Profile LED
Amber Warning Light



MX700/10

LED Number Plate Light



Module D

LED strobe brackets and number plate bracket to suit module D.

0063-02

LED Strobe Mounting
Bracket Module D



0062

Number Plate Bracket
Module D



LED strobe light and number plate light to suit module D.

85214A

Multivolt Low Profile LED
Amber Warning Light

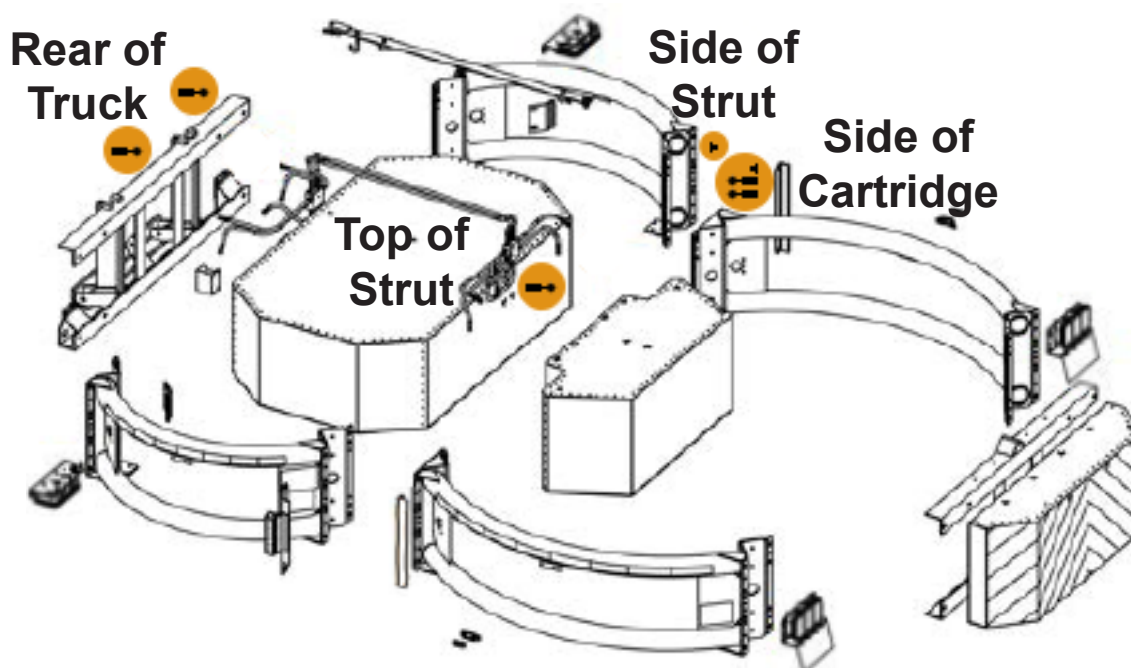


MX700/10

LED Number Plate Light



Limit & Proximity Switches



Rear of Truck

2 limit switches installed on rear of truck for Failsafe Deployment System and Transport position light.

TZ9208 Adjustable Limit Switch With Wheel



Top of Strut Diaphragm

Limit switch installed on top of strut diaphragm for Failsafe Deployment System.

TZ9208 Adjustable Limit Switch With Wheel



Side of Strut

Operating magnet installed on side of drop jack mounting bracket for AIB.

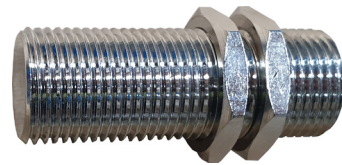
0065-01

Operating Magnet Mounting
Bracket



AIB-0003

Operating Magnet



Side of Cartridge

2 limit switches and 1 proximity switch installed on side of vertical support angle for AIB, light shut off & deploy position light.

TZ9208

Adjustable Limit Switch
With Wheel



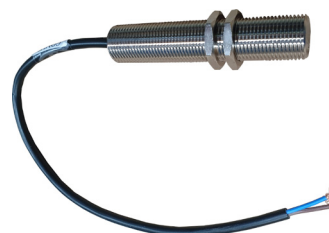
0065-02

Proximity Switch
Mounting Bracket



AIB-0002

Proximity Switch



Plugs & Connectors

82141

7 Pin Flat Trailer Plug



82161

7 Pin Large Round Metal Trailer Plug

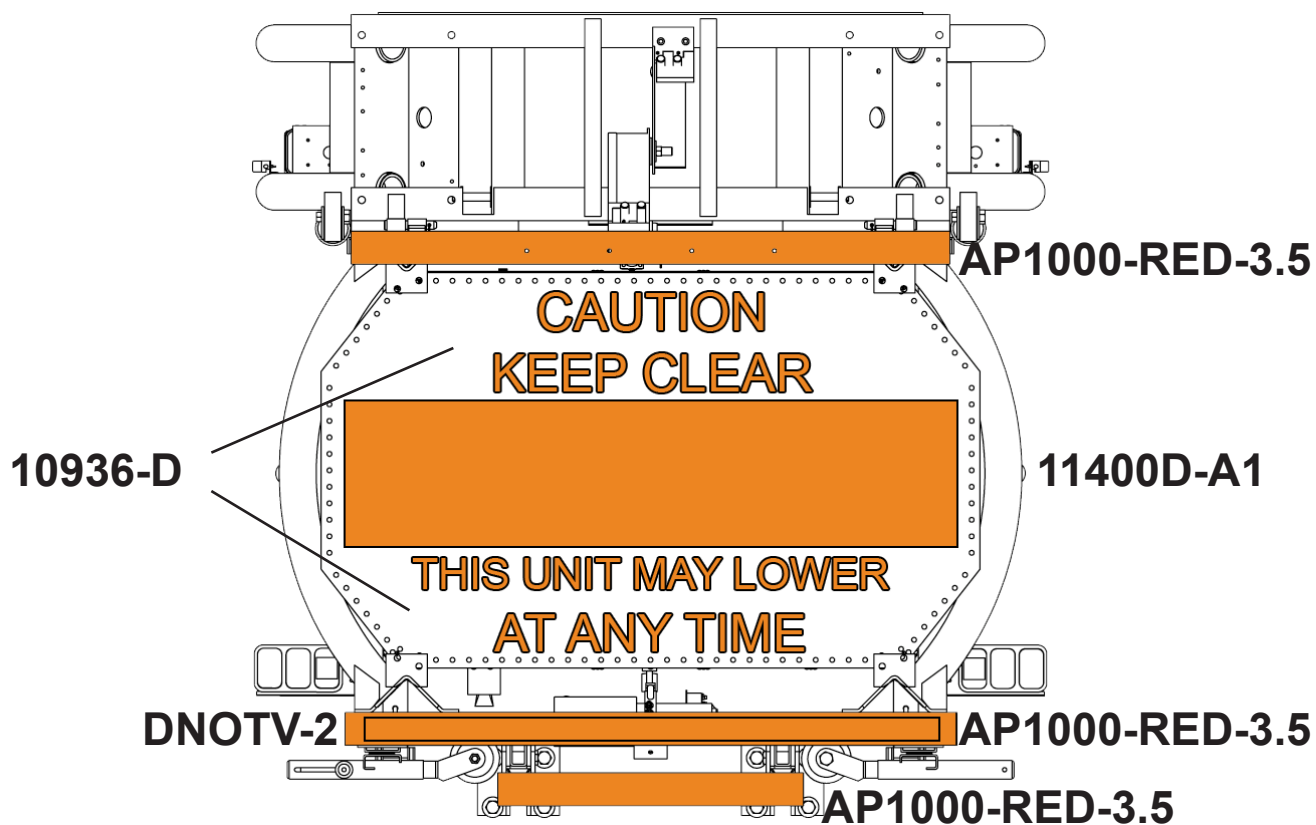
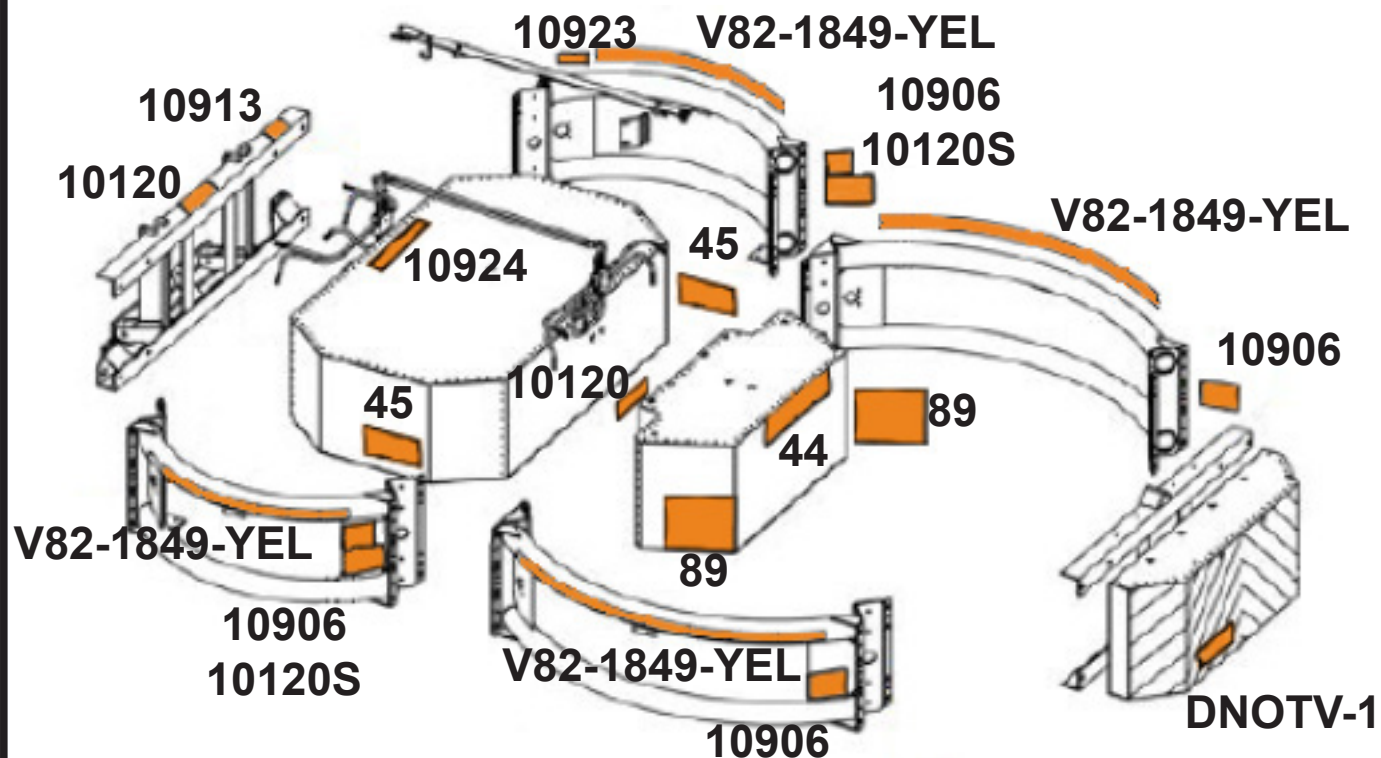


57215

Heavy-Duty 175amp Anderson Connector



TMA Decals



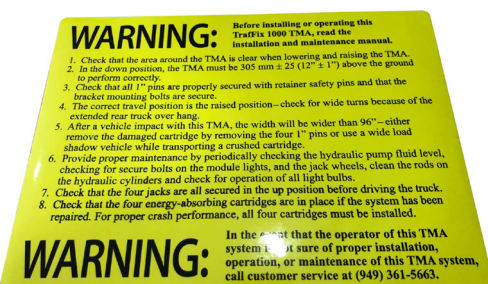
10120



10120S



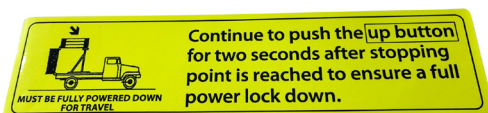
10906



10913



10923



10924



STICKER44

A1 Roadlines Pty Ltd
1300 A1 ROAD
www.a1roadlines.com.au

STICKER45

A1 Roadlines Pty Ltd
1300 A1 ROAD
www.a1roadlines.com.au

STICKER89

TL3

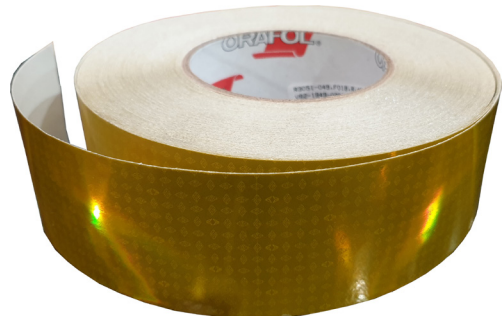
DNOTV-1



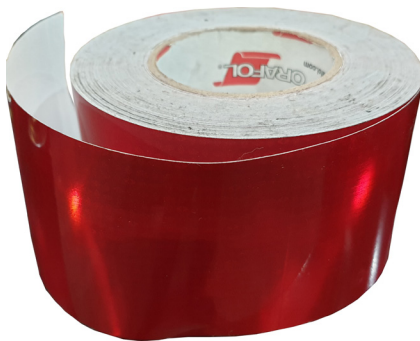
DNOTV-2

DO NOT OVERTAKE TURNING VEHICLE

V82-1849-YEL



AP1000-RED-3.5



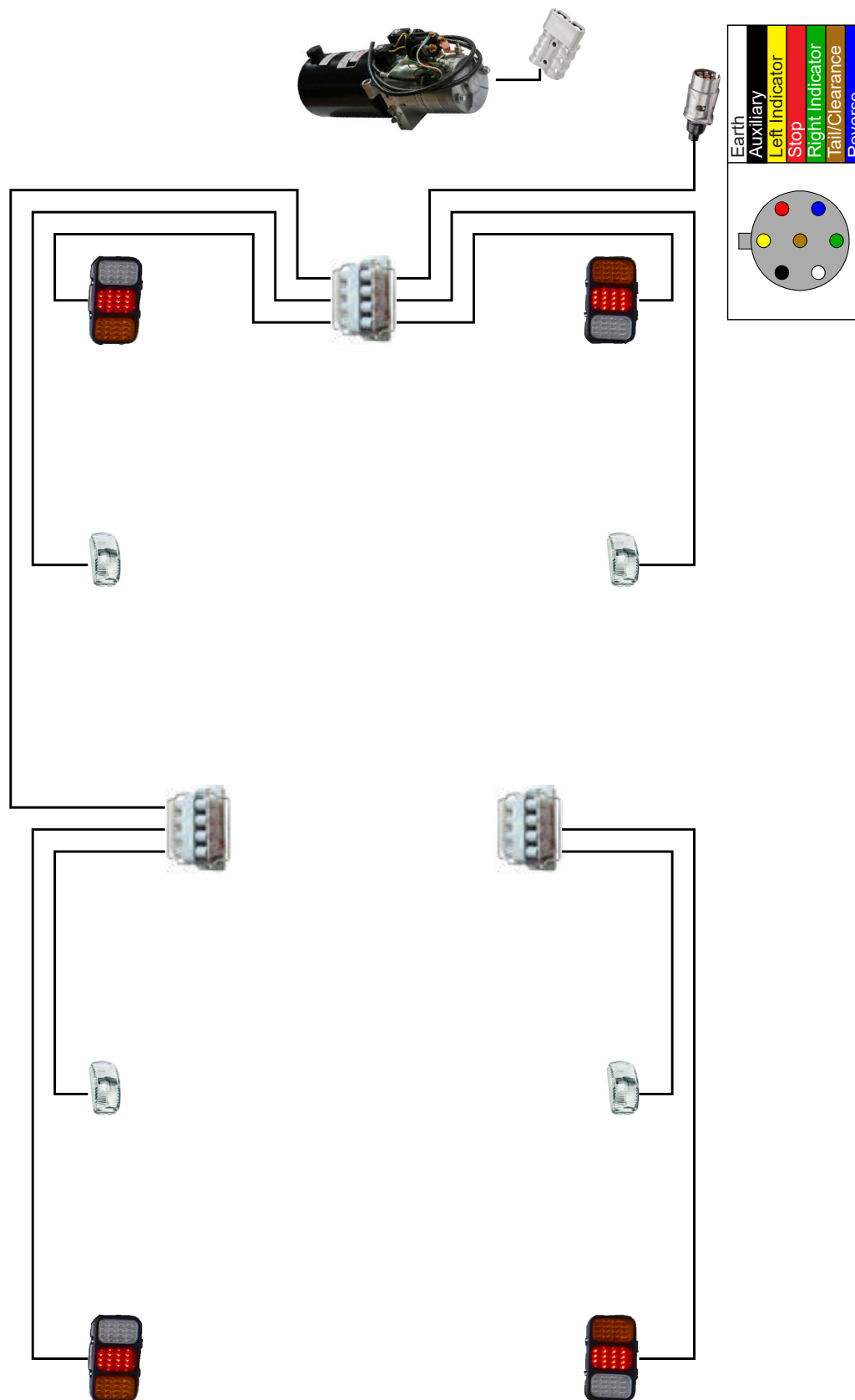
11400D-A1



**10936-D
CAUTION
KEEP CLEAR**

**THIS UNIT MAY LOWER
AT ANY TIME**

TrafFix Wiring Diagram



A1 Roadlines Wiring Diagram

