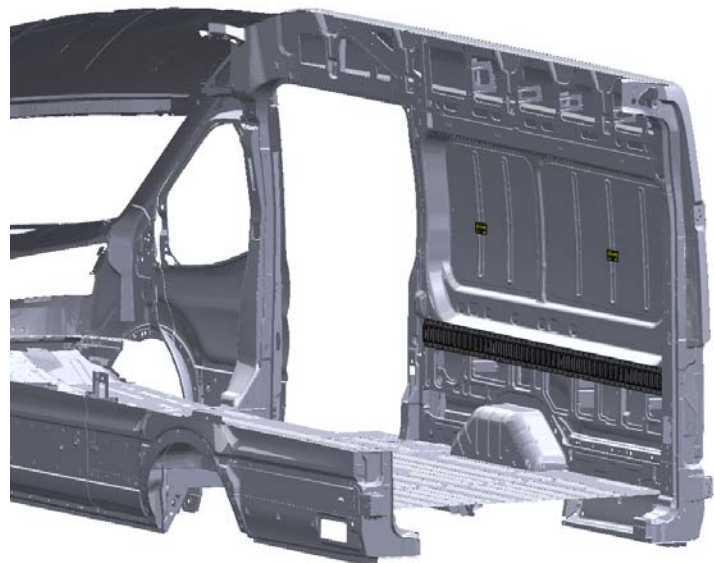
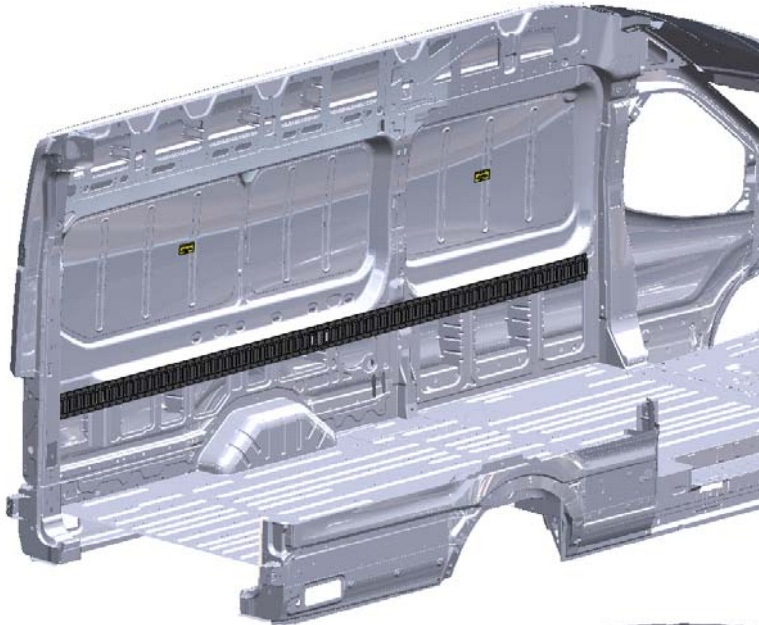




# **ADRIAN STEEL®**

*Cargo Management Solutions for Commercial Vehicles*

## **Assembly/Installation Instructions and Owners Manual**



### **47599 E-TRAC KIT FORD TRANSIT**

## - PRECAUTIONS -



**CAUTION**



**THE USE AIR IMPACT TOOLS CAN  
OVER-TORQUE FASTENERS AND  
CAUSE FASTENER FAILURE!**



**CAUTION**



**ALL INSTALLATION HOLES SHOULD BE SEALED  
WITH SILICON OR BUTYL SEALANT TO PREVENT  
EXHAUST FUMES FROM ENTERING THE VEHICLE!**



**DANGER**



**INSPECT FOR FUEL TANK, FUEL LINES, BRAKE LINES, HIGH  
VOLTAGE BATTERIES AND ELECTRICAL LINES PRIOR TO  
DRILLING TO AVOID DAMAGING CRITICAL VEHICLE SYSTEMS  
OR INJURY TO INSTALLER DURING INSTALLATION PROCESS!**



**CAUTION**



**TO AVOID DAMAGING THE VEHICLE ALWAYS  
USE DRILL STOPS WHEN DRILLING ANY IN-  
STALLATION HOLES!**



## - IMPORTANT WARRANTY REQUIREMENTS -

1. SUBSTITUTING ADRIAN STEEL SPECIFIED FASTENERS FOR ASSEMBLY AND/OR INSTALLATION WILL VOID YOUR PRODUCT WARRANTY.
2. ALL HOLES DRILLED INTO VEHICLE SHOULD HAVE THE RAW METAL EDGES SEALED WITH A SELF-ETCHING PRIMER TO RESIST CORROSION AND POTENTIAL FASTENER POINT FAILURE.
3. ALL FASTENERS USED IN THE INSTALLATION OF THIS PRODUCT SHOULD BE TIGHTENED TO THE TORQUE(S) SPECIFIED IN THESE INSTRUCTIONS.
4. THESE INSTRUCTIONS SHOULD BE KEPT WITH THE VEHICLE.

### THE BASIC TOOLS NEEDED FOR MOST INSTALLATIONS



DRILL



DRILL BIT WITH  
STOP



RATCHET, SOCKETS  
AND/OR WRENCHES



SCREWDRIVERS



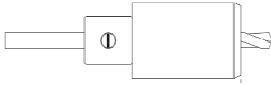
MEASURING TAPE

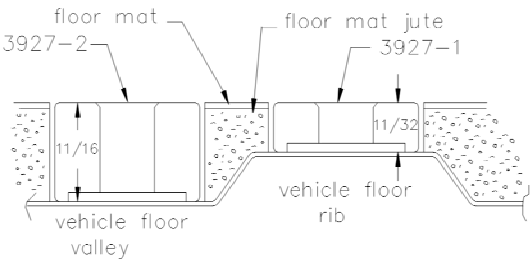
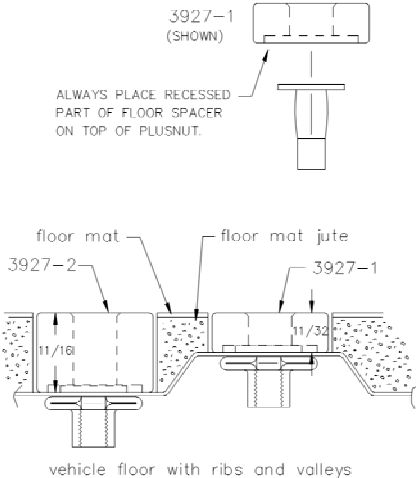
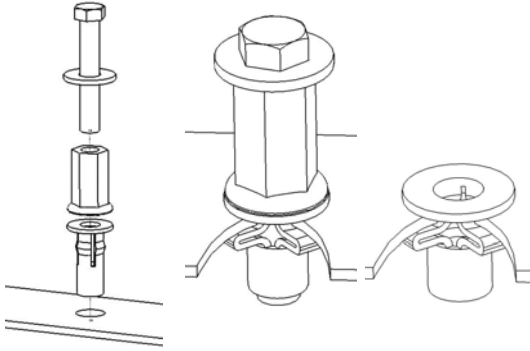
ADDITIONAL TOOLS MAY BE NEEDED FOR THIS INSTALLATION AND THEY WILL BE IDENTIFIED IN THE STEPS THAT FOLLOW.

## Assembly/Installation Instructions and Owners Manual



**WHEN INSTALLING PLUSNUTS MAKE SURE YOU USE THE CORRECT DRILL BIT WITH A STOP!**

| PLUSNUT SIZE                                                                                                                                                                  | DRILL BIT SIZE                                                                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1/4-20 PLUSNUT, FAS0052                                                                                                                                                       | USE A 3/8" DIAMETER DRILL BIT WITH A STOP.                                                                                                                                                                  |
| 5/16-18 PLUSNUT, FAS0091                                                                                                                                                      | USE A 1/2" DIAMETER DRILL BIT WITH A STOP.                                                                                                                                                                  |
|  <b>OR</b>  | <b>NOTE: A PLUSNUT SETTING TOOL IS REQUIRED FOR PLUSNUT INSTALLATION AND IS NOT SUPPLIED WITH THIS KIT. ORDER PLUSNUT TOOLS FROM ADRIAN STEEL (P.N. 22200-0) OR USE AN AIR POWERED PLUSNUT SETTING GUN.</b> |
| <b>NOTE: If your vehicle contains carpet or a rubber floor mat you will need to prepare the mounting locations using a 1-3/16" carpet cutter.</b>                             | <b>1-3/16" DIAMETER CARPET CUTTER P.N. 31183-0.</b>                                                                      |

|                                                                                     |                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | <p><b>Step 01</b></p> <p>Optional</p>                   | <p>If your vehicle contains carpet or a rubber floor mat you will need to prepare the mounting locations. <b>(if not, skip to STEP 02)</b></p> <p>Position the product to be installed into the vehicle and once you are satisfied with the mounting locations, mark the mounting locations. Using a 1-3/16" diameter carpet cutter. Select the appropriate floor spacers as shown in the illustration to the left. Set those aside for use later into the installation process.</p> <p>Once you have prepared the carpet/floor mat for</p>                                                                                                                                                                                                                                                                   |
|  | <p><b>Step 02</b></p> <p>Prepare Mounting Locations</p> | <p>Using a drill and drill bit (<i>see table at top of page for correct size</i>) drill the mounting holes in the vehicle sheet metal to prepare for installing the plusnuts.</p> <p>If you are thru-bolting at any of the locations simply drill a hole that is 1/16" larger than the bolt size's) for those locations.</p> <p>Once you have drilled the holes into the vehicle, the raw metal edges should be sealed using a self-etching primer to resist corrosion and potential fastener point failure.</p>                                                                                                                                                                                                                                                                                              |
|  | <p><b>Step 03</b></p> <p>Setting Plusnuts</p>           | <p>Use a Air Powered Plusnut Setting Gun to "set the plusnut" or if installing manually with hand tools, assembly the following.</p> <p><b>1/4-20UNC Plusnut (FAS0052)</b><br/>FAS0080 SCREW, HXHD, 1/4-20UNCx2.00", G8<br/>FAS0067 WASHER, FLAT, 1/4"ID<br/>22200-0 PLUSNUT TOOL</p> <p><b>5/16-18UNC Plusnut (FAS0091)</b><br/>FAS0095 SCREW, HXHD, 5/16-18UNCx2.00", G8<br/>FAS0086 WASHER, FLAT, 5/16"ID<br/>22200-0 PLUSNUT TOOL</p> <p>Place barrel of the plusnut body in sheet metal thru hole until flange is flush with sheet metal.</p> <p>Using a 9/16" combination wrench of plusnut tool body and a second hand wrench, ratchet, or air tool, rotate the hex bolt head CW to draw plus nut flanges up (set the plusnut).</p> <p>Remove hex bolt, washer, and plusnut. Inspect installation.</p> |

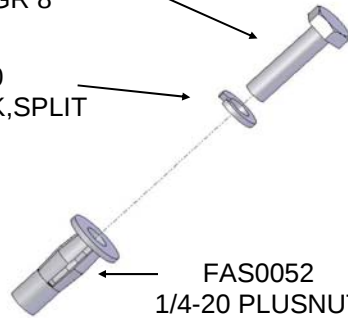
# Assembly/Installation Instructions and Owners Manual

23916-0  
WARNING LABEL E-TRAC  
4 SUPPLIED



FAS0078  
SCREW, 1/4-20 X 1  
GR 8

FAS0060  
WASHER, LOCK, SPLIT  
1/4"

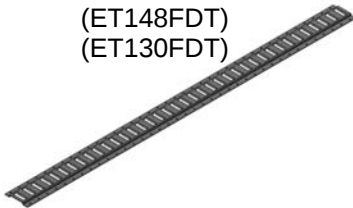


FAS0052  
1/4-20 PLUSNUT

29687-0  
122" E-TRAC  
1 SUPPLIED  
(ET148FDT)



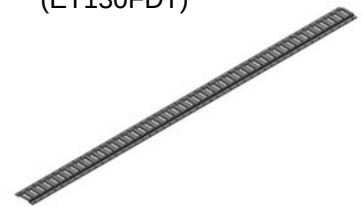
29685-0  
76" E-TRAC  
2 SUPPLIED  
(ET148XFDT)  
1 SUPPLIED  
(ET148FDT)  
(ET130FDT)



23895-0  
60" E-TRAC  
CUT TO 48"  
1 SUPPLIED



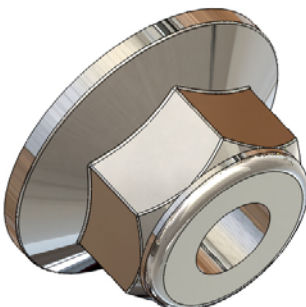
29686  
108" E-TRAC  
CUT TO 96"  
1 SUPPLIED  
(ET148XFDT)  
(ET130FDT)



FAS0061  
4 INCLUDED  
(ET148XFDT)

23896-0  
E-TRAC STRAP  
12' W/CAM BUCKLE  
2 SUPPLIED

FAS0055  
4 SUPPLIED  
(ET148XFDT)



23905  
E-TRAC SPLICE PLATE,  
1 SUPPLIED  
(ET148XFDT)



## INSTRUCTIONS FOR STEP 04, INSTALL E-TRAC FOR JUMBO TRANSIT, DRIVER SIDE

YOU WILL NEED A TOTAL OF (19) OF EACH OF THE FOLLOWING FASTENERS FOR THIS STEP.

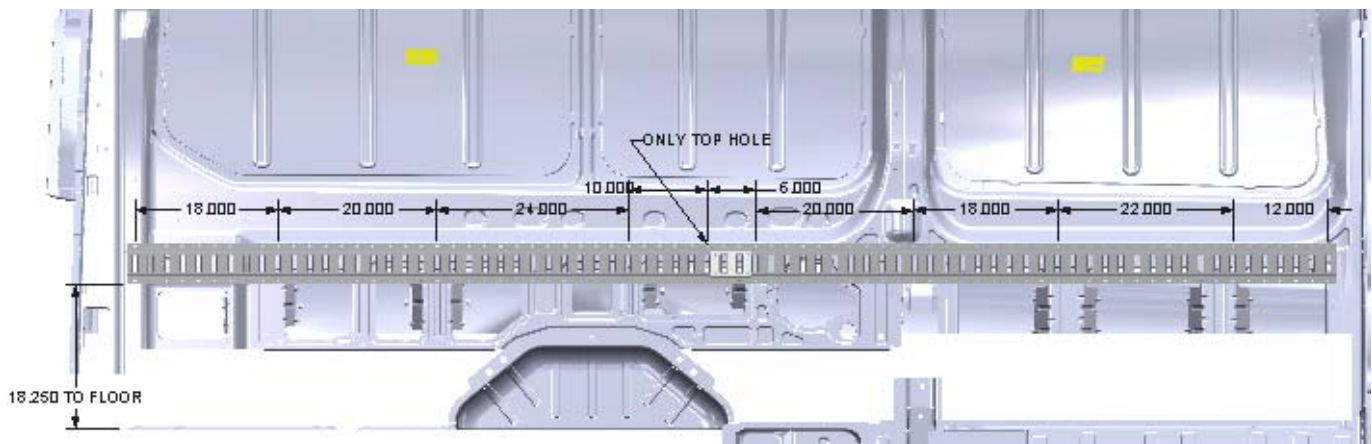
FAS0052 1/4-20 PLUSNUT, FAS0060 1/4 WASHER, LOCK, FAS0078 1/4-20 X 1" BOLT

(2) 29685 76" E-TRAC; 23905 SPLICE PLATE PLACED ON SEAM OF (2) 29685.

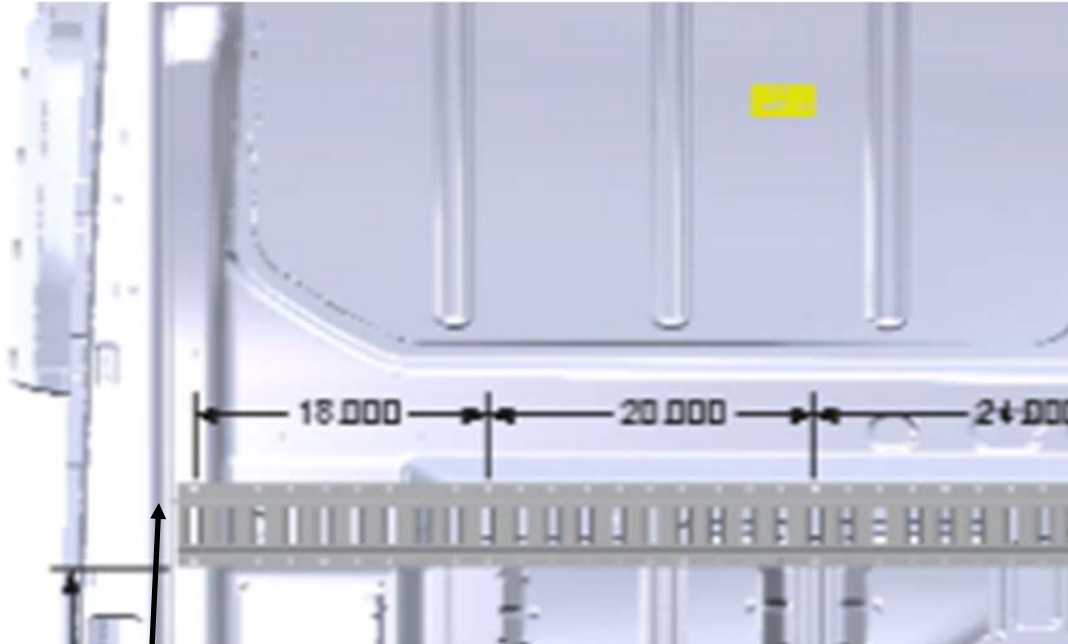
YOU WILL NEED (4) OF EACH. FAS0055 1/4-20 HEX NUT, FAS0061 1/4-20 X .5 SCREW

POSITION E TRAC 18.25" OFF FLOOR AND 1/2" FROM D-PILLER TRIM AND MARK THE FIRST SET OF HOLES IN THE E-TRAC. DRILL PILOT HOLE THROUGH THE PANEL(IF INSTALLING LINER), REMOVE PANEL DRILL AND SET PLUSNUT. ATTACH E-TRAC AND TRANSFER THE OTHER HOLES FROM THE E-TRAC USING THE DIMENSIONS BELOW. REMOVE E-TRAC, DRILL AND SET PLUSNUTS

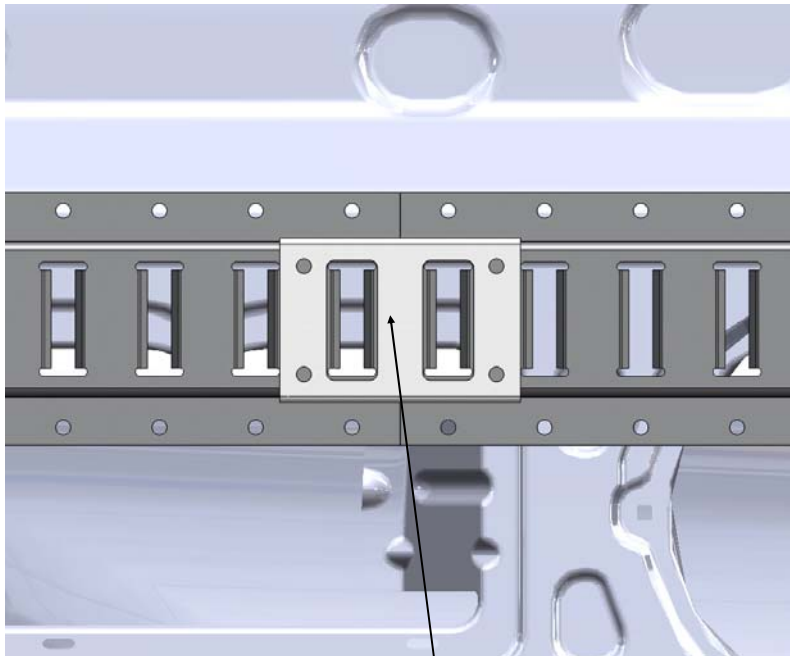
PLACE WARNING LABELS ON SIDE WALL AS SHOWN



**INSTRUCTIONS FOR STEP 04 CONT. , INSTALL E-TRAC FOR  
JUMBO TRANSIT, DRIVER SIDE**



POSITION THE E-TRAC 1/2" AWAY FROM THE D PILLAR



CENTER SPLICE PLATE ON SEAM OF E-TRACS. MARK AND DRILL HOLES. USE FAS0061 AND FAS0055 TO MOUNT TO E-TRAC

## INSTRUCTIONS FOR STEP 04, INSTALL E-TRAC FOR 148" TRANSIT, DRIVER SIDE

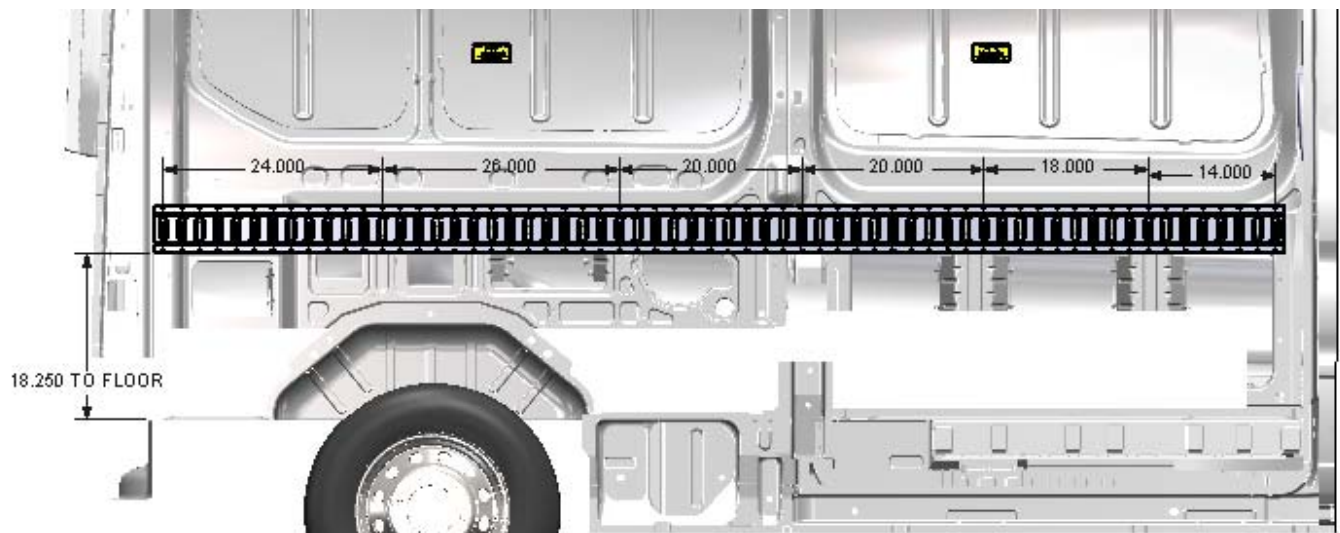
YOU WILL NEED A TOTAL OF (14) OF EACH OF THE FOLLOWING FASTENERS FOR THIS STEP.

FAS0052 1/4-20 PLUSNUT, FAS0060 1/4 WASHER, LOCK, FAS0078 1/4-20 X 1" BOLT

29687 128" E-TRAC; CUT TO 124" DEBURR ANY SHARP  
EDGES, CUT END FACES THE REAR OF THE VAN

POSITION E-TRAC 18.25" OFF FLOOR AND CLOSE TO D-PILLER TRIM AND MARK THE FIRST SET  
OF HOLES IN THE E-TRAC. DRILL PILOT HOLE THROUGH THE PANEL (IF INSTALLING LINER), RE-  
MOVE PANEL DRILL AND SET PLUSNUT. ATTACH E-TRAC AND  
TRANSFER THE OTHER HOLES FROM THE E-TRAC USING THE DIMENSIONS BELOW.  
REMOVE E-TRAC, DRILL AND SET PLUSNUTS

PLACE WARNING LABELS ON SIDE WALL AS SHOWN



## INSTRUCTIONS FOR STEP 04, INSTALL E-TRAC FOR 130" TRANSIT, DRIVER SIDE

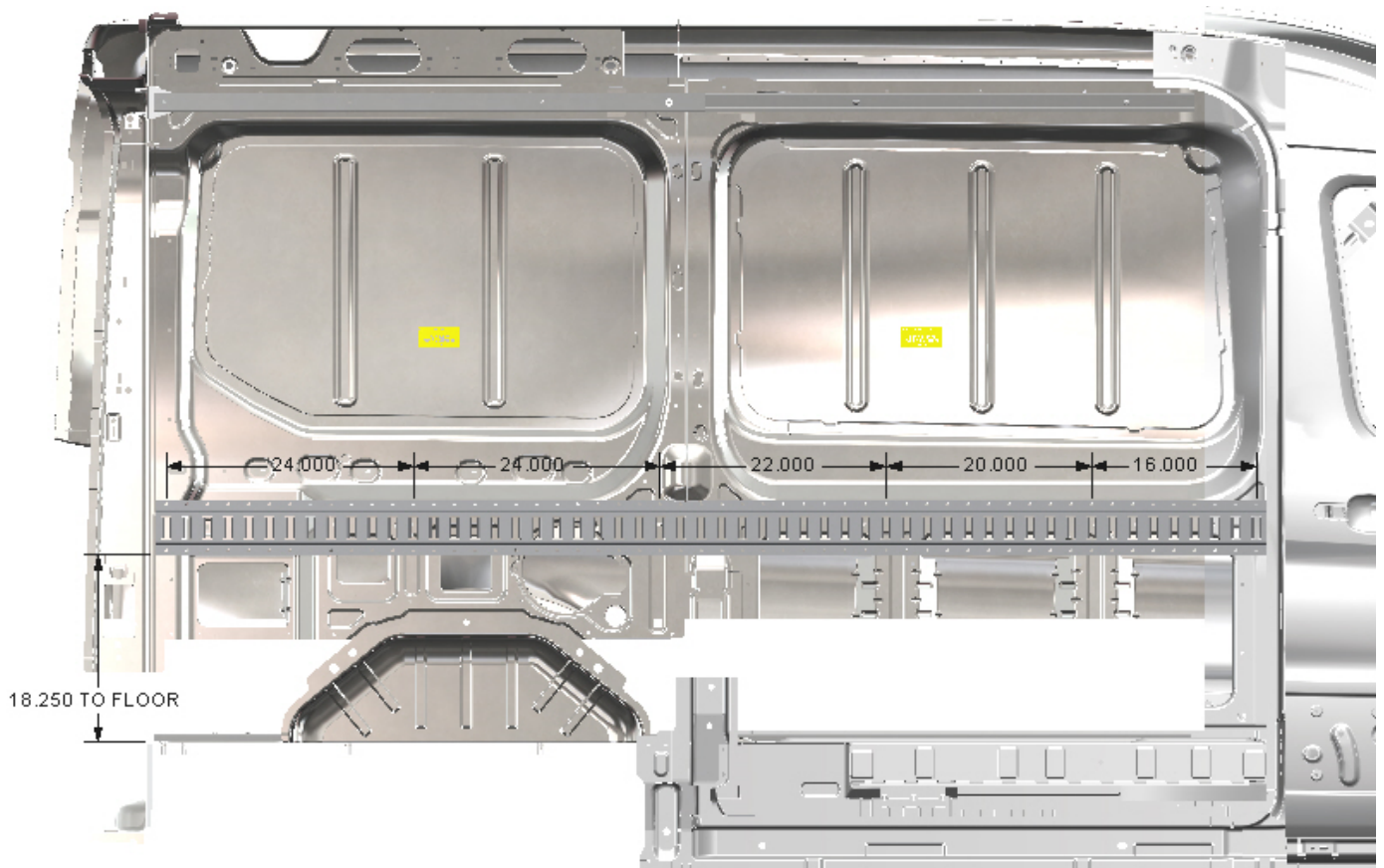
YOU WILL NEED A TOTAL OF (12) OF EACH OF THE FOLLOWING FASTENERS FOR THIS STEP.

FAS0052 1/4-20 PLUSNUT, FAS0060 1/4 WASHER, LOCK, FAS0078 1/4-20 X 1" BOLT

29686 108" E-TRAC

POSITION E-TRAC 18.25" OFF FLOOR AND CLOSE TO D-PILLER TRIM AND MARK THE FIRST SET OF HOLES IN THE E-TRAC. DRILL PILOT HOLE THROUGH THE PANEL(IF INSTALLING LINER), REMOVE PANEL DRILL AND SET PLUSNUT. ATTACH E-TRAC AND TRANSFER THE OTHER HOLES FROM THE E-TRAC USING THE DIMENSIONS BELOW REMOVE E-TRAC, DRILL AND SET PLUSNUTS

PLACE WARNING LABELS ON SIDE WALL AS SHOWN



## INSTRUCTIONS FOR STEP 05, INSTALL E-TRAC JUMBO TRANSIT PASSENGER SIDE

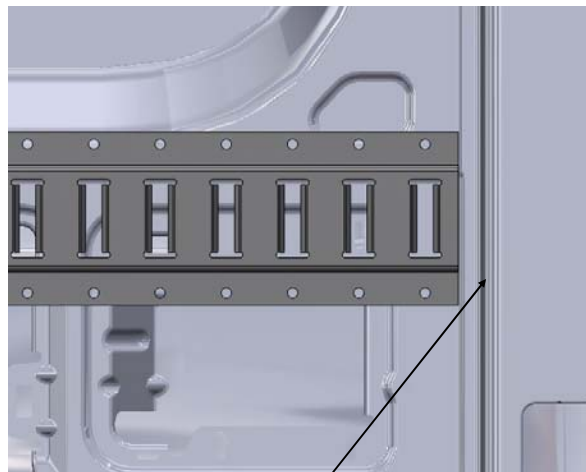
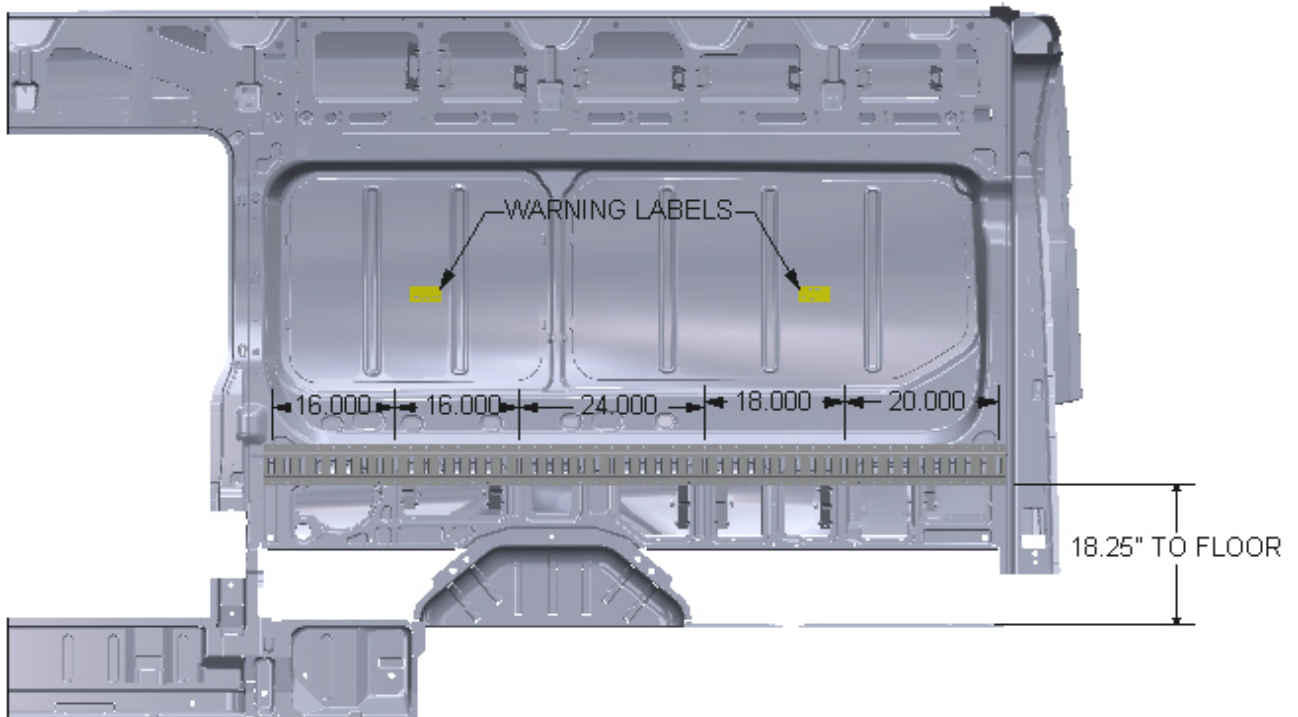
29686-0 108" E-TRAC; CUT TO 96" DEBURR ANY SHARP EDGES, CUT END FACES THE REAR OF THE VAN

YOU WILL NEED A TOTAL OF (12) OF EACH OF THE FOLLOWING FASTENERS FOR THIS STEP.

FAS0052 1/4-20 PLUSNUT, FAS0060 1/4 WASHER, LOCK, FAS0078 1/4-20 X 1" BOLT

POSITION E-TRAC 18.25" OFF FLOOR AND 1/2" AWAY FROM THE D-PILLAR. TRANSFER THE OTHER HOLES FROM THE E-TRAC USING THE DIMENSIONS BELOW.

INSTALL E-TRAC AND APPLY WARNING LABELS AS SHOWN.



POSITION THE E-TRAC 1/2" AWAY FROM THE D-PILLAR

## INSTRUCTIONS FOR STEP 05, INSTALL E-TRAC 148" TRANSIT, PASSENGER SIDE

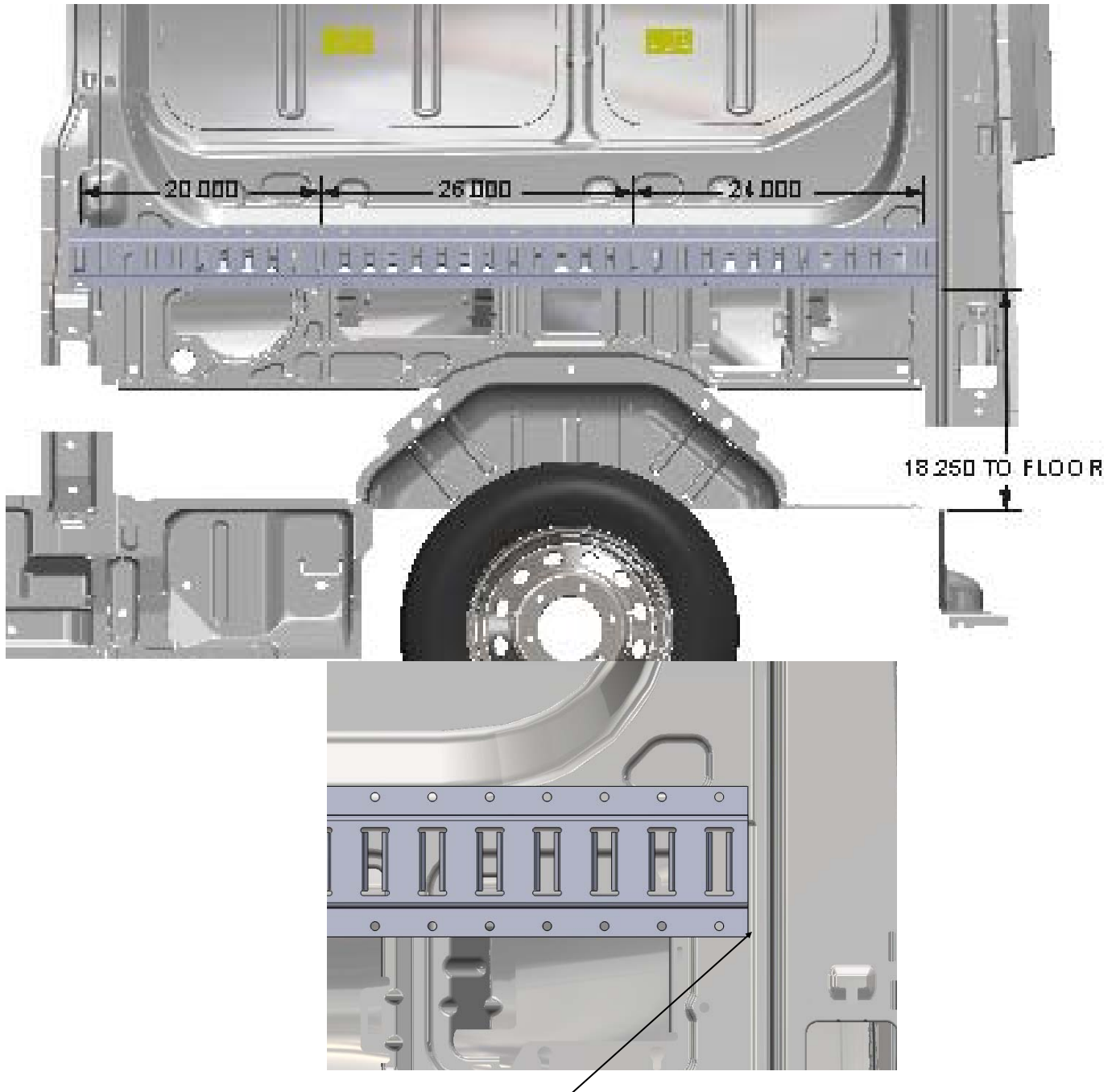
29685-0 76" E-TRAC; CUT TO 72" DEBURR ANY SHARP  
EDGES, CUT END FACES THE REAR OF THE VAN

YOU WILL NEED A TOTAL OF (8) OF EACH OF THE FOLLOWING FASTENERS FOR THIS STEP.

FAS0052 1/4-20 PLUSNUT, FAS0060 1/4 WASHER, LOCK, FAS0078 1/4-20 X 1" BOLT

POSITION E-TRAC 18.25 OFF FLOOR AND CLOSE TO THE D PILLAR.  
TRANSFER THE OTHER HOLES FROM THE E-TRAC USING THE DIMENSIONS BELOW

INSTALL E-TRAC AND APPLY WARNING LABELS AS SHOWN.



LOCATE FIRST SET OF HOLES IN THIS AREA, AGAINST D PILLAR

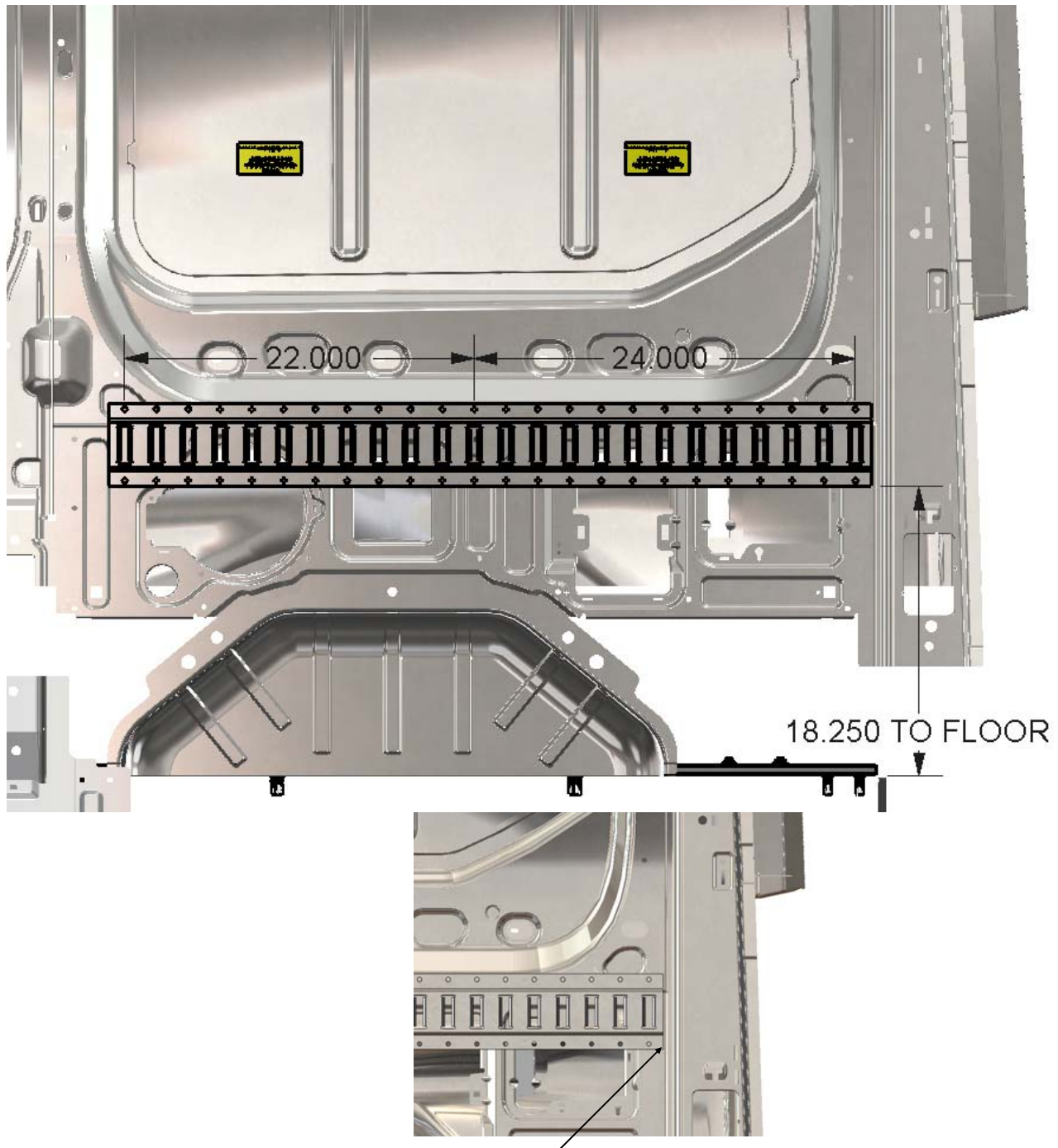
## INSTRUCTIONS FOR STEP 05, INSTALL E-TRAC 130" TRANSIT PASSENGER SIDE

23895-0 60" E-TRAC; CUT TO 48" DEBURR ANY SHARP EDGES, CUT END FACES THE REAR OF THE VAN

YOU WILL NEED A TOTAL OF (6) OF EACH OF THE FOLLOWING FASTENERS FOR THIS STEP.

FAS0052 1/4-20 PLUSNUT, FAS0060 1/4 WASHER, LOCK, FAS0078 1/4-20 X 1" BOLT

POSITION E TRAC 18.25 OFF FLOOR AND LOCATE AS SHOWN BELOW.  
TRANSFER THE OTHER HOLES FROM THE E-TRAC USING THE DIMENSIONS BELOW



LOCATE FIRST SET OF HOLES IN THIS AREA, AGAINST D PILLAR

| PURCHASED COMPONENT KEY FEATURES                                                                                                                                                                                        |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| DESCRIPTION OF REQUIREMENTS                                                                                                                                                                                             |  |
| DIMENSIONAL REQUIREMENTS (AS SHOWN ON DRAWING)                                                                                                                                                                          |  |
| N/A                                                                                                                                                                                                                     |  |
| LOAD/RATING REQUIREMENT                                                                                                                                                                                                 |  |
| N/A                                                                                                                                                                                                                     |  |
| MATERIAL REQUIREMENT                                                                                                                                                                                                    |  |
| N/A                                                                                                                                                                                                                     |  |
| PACKAGING REQUIREMENT                                                                                                                                                                                                   |  |
| N/A                                                                                                                                                                                                                     |  |
| OTHER REQUIREMENTS                                                                                                                                                                                                      |  |
| <ul style="list-style-type: none"><li>2" x 12' STRONG POLYESTER WEBBING WITH 48" FIXED END</li><li>DESIGNED TO SECURE CARGO UP TO 833 LBS.</li><li>2" CAM BUCKLE WITH SPRING-ACTUATED E-FITTINGS ON BOTH ENDS</li></ul> |  |

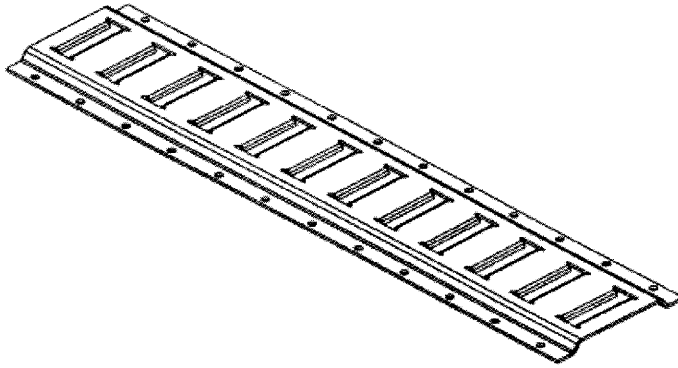


|                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                           |  |                                                                      |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------|--|
| THIS DRAWING IS THE PROPERTY OF ADRIAN STEEL COMPANY AND IS NOT TO BE USED IN ANY MANNER<br>DETRIMENTAL TO THE INTERESTS OF ADRIAN STEEL COMPANY           |  | PRINTED DOCUMENT IS UNCONTROLLED                                                                                                                                                                                                                                                                                                          |  | Sheet 1 of 1                                                         |  |
| TOLERANCES & INSPECTION                                                                                                                                    |  | PART / PRODUCT IDENTIFICATION                                                                                                                                                                                                                                                                                                             |  |                                                                      |  |
| UNLESS OTHERWISE SPECIFIED<br>ALL BEND ANGLES ARE 90 DEGREES<br>ALL DIMENSIONS ARE IN INCHES.<br>REFERENCE DIMENSIONS (X.XXX)<br>DO NOT REQUIRE INSPECTION |  | ADRIAN STEEL®<br>ADRIAN STEEL COMPANY<br>906 JAMES STREET, ADRIAN, MI 49221                                                                                                                                                                                                                                                               |  | REVISION LEVEL<br>B                                                  |  |
| FEATURES<br>0.0 = ± .125<br>0.00 = ± .062<br>0.000 = ± .031                                                                                                |  | HOLES/SLOTS<br>0.0 = ± .062<br>0.00 = ± .031<br>0.000 = ± .015                                                                                                                                                                                                                                                                            |  | MATERIAL USED: POLYESTER<br>DESIGNED BY: RG                          |  |
| Material Thickness: per ASTM Std.<br>Weld Callouts per AWS                                                                                                 |  | DESCRIPTION: E-TRAC,STRAP 12'W/CAM BKL                                                                                                                                                                                                                                                                                                    |  | WEIGHT (Lbs.): 1.60 LBS<br>SEGMENT CODE: MAC<br>PART NUMBER: 23896-0 |  |
| RELEASE & REVISIONS                                                                                                                                        |  | PURCHASED COMPONENT                                                                                                                                                                                                                                                                                                                       |  |                                                                      |  |
| INITIAL ECN: 4100<br>CURRENT ECN: 25465<br>ECN DESCRIPTION:<br>CREATED PPDS SHEET FOR 23896-0<br>REVISED BY: WJA                                           |  | REFERENCED SUPPLIER AND/OR MANUFACTURER<br>AUSTIN HARDWARE / OR EQUIVALENT<br>REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER<br>CCCS-001<br>COLOR (ONLY LIST IF COLOR SPECIFIC)<br>N/A<br>COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)<br>(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)<br>YES |  |                                                                      |  |

| PURCHASED COMPONENT                                                                                                                        |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|--|
| REFERENCED SUPPLIER AND/OR MANUFACTURER<br>AUSTIN HARDWARE / OR EQUIVALENT                                                                 |  |
| REFERENCED SUPPLIER AND/OR MANUFACTURER PART NUMBER<br>CCCS-001                                                                            |  |
| COLOR (ONLY LIST IF COLOR SPECIFIC)<br>N/A                                                                                                 |  |
| COMODITY ITEM (Y/N) (YES = ALL DIMENSIONS AND NOTES ARE REFERENCE)<br>(NOTE: DIMENSIONS AND FEATURES MAY VARY FOR A COMODITY ITEM.)<br>YES |  |

| RELEASE & REVISIONS                                |  |
|----------------------------------------------------|--|
| INITIAL ECN: 4100                                  |  |
| CURRENT ECN: 25465                                 |  |
| ECN DESCRIPTION:<br>CREATED PPDS SHEET FOR 23896-0 |  |
| REVISED BY: WJA                                    |  |

PART NUMBER

**29686-0****ITEM DESCRIPTION: E-TRAC 108" OR 9'**

MANUFACTURER: CARGOWALL LIMITED  
MANUFACTURERS PART NUMBER: TR1250H0900GYCN

SPECIFICATIONS: 108" OR 9' E-TRAC  
GRAY POWDER COAT

SPECIAL NOTES:

**SUPPLIED BY: THIS ITEM IS ADRIAN AVAILABLE!**

**PURCHASED PRODUCT DATA SHEET (PPDS)**

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**ADRIAN STEEL**Cargo Management Solutions for Commercial Vehicles

906 JAMES STREET  
ADRIAN, MI 49221  
517-265-6194

[WWW.ADRIANSTEEL.COM](http://WWW.ADRIANSTEEL.COM)

**CAUTION**

WHEN INSTALLING EQUIPMENT IN OR ON  
VEHICLES CHECK FOR FUEL TANKS, FUEL  
LINES, CONTROL LINES AND ELECTRICAL  
WIRING BEFORE DRILLING! ALWAYS USE  
DRILL BITS WITH INTEGRAL STOPS  
WHENEVER POSSIBLE!

DRAWN BY  
BDH

DATE DRAWN  
04/05/10

ECN NUMBER  
12882

ECN DATE  
4/6/10

PART WEIGHT  
14.54 LBS.

REV. LEVEL  
A

PART NUMBER

**29686-0**