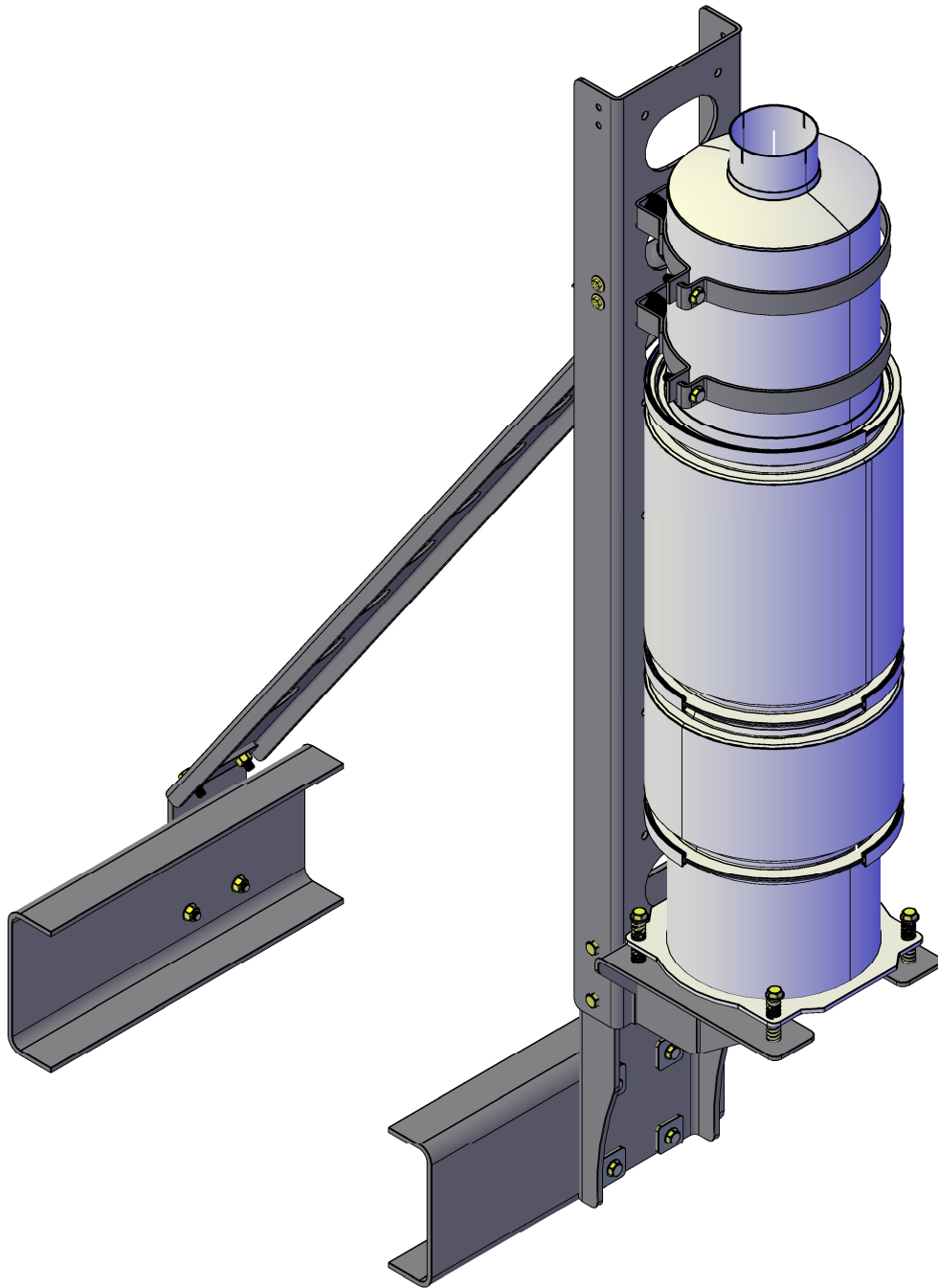


# **DIESEL EMISSIONS SERVICE**

RETROFIT AND REPOWER SPECIALISTS

**Portland | Redding | Oakland | Ontario**



## **DES M9011 PCS 28/35 EGR**

**ALL INSTALLATION INSTRUCTIONS AND GUIDELINES MUST BE THOROUGHLY READ AND UNDERSTOOD BEFORE INSTALLING A DIESEL EMISSIONS SERVICE PRODUCT**



## **PRODUCT GUIDELINES**

**Diesel Emissions Service recommends its products be installed by a trained technician with proper tools and safety equipment. In addition all Diesel Emissions Service mounting brackets should be installed using good judgment and sound mechanical principles. Since all installations are unique, it is the sole responsibility of the installer to determine the best fit and function of the DPF mounting brackets.**

## **PRODUCT SAFETY**

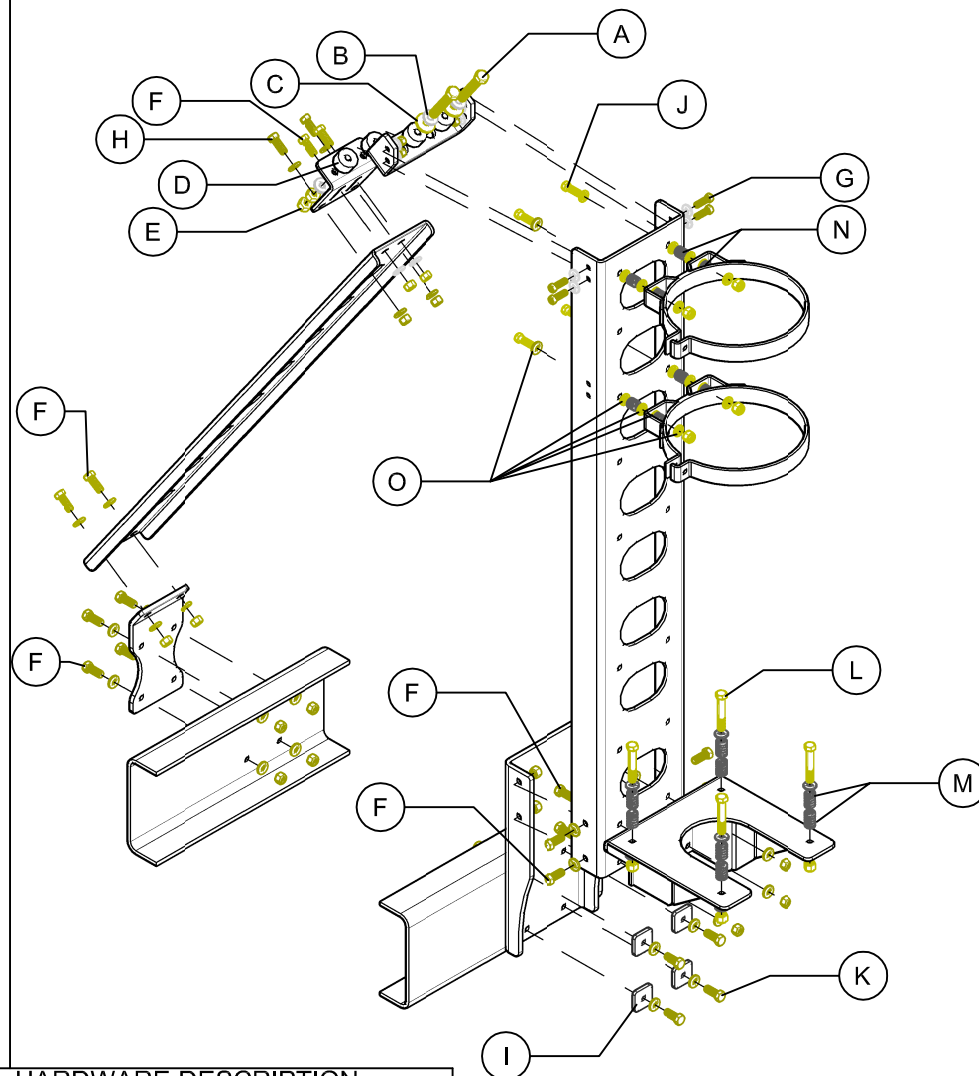
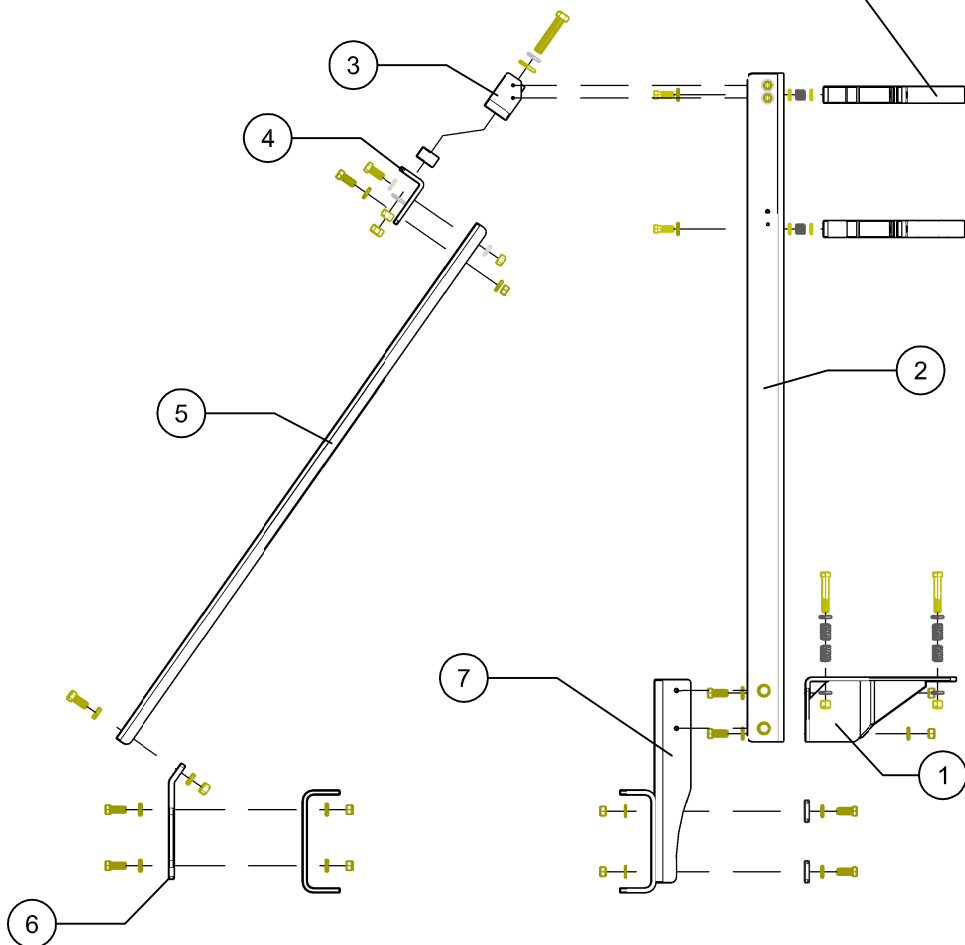
**Diesel Emissions Service products are designed for “ON-ROAD” applications only. Modifications to any Diesel Emissions Service product are not recommended and can compromise the bracket performance. Diesel Emissions Service claims no liability or responsibility for the improper application or installation of its products.**

## **PRODUCT WARRANTY**

**Diesel Emissions Service warrants to the original purchaser of its products that such products will be free from defects in material and workmanship under normal use. Diesel Emissions Service’s obligation under this warranty is solely and exclusively limited to repair and or replacement, at Diesel Emissions Service option, of the product (or components thereof) which Diesel Emissions Service’s examination proves to its satisfaction to be defective. Diesel Emissions Service SHALL HAVE NO OBLIGATION FOR CONSEQUENTIAL DAMAGES TO PERSONAL OR REAL PROPERTY, OR FOR INJURY TO ANY PERSON.**

**This warranty does not apply to products which have been subject to improper use, accident, negligence, abuse or misuse.**

FILTER BANDS SHOWN AS REFERENCE ONLY



ITEM	QTY	HARDWARE DESCRIPTION
A	2	5/8 -11 X 4 INCH BOLT
B	4	5/8 SAE WASHER
C	2	5/8 USS WASHER
D	4	2" THICK POLY ISOLATORS
E	4	5/8 -11 HEX NUTS
F	16	1/2 - 13 X 1-1/2 BOLT,NUT,WASHER,ASSY
G	4	3/8 - 16 X 1-1/2 BOLT,NUT,WASHER,ASSY
H	2	7/16 -14 X 1-1/2 BOLT,NUT,WASHER,ASSY
I	4	1/4 X 2 X 2 BLACK SQUARE WASHER
J	4	7/16 - 14 X 2-3/4 BOLT AND NUT
K	4	1/2 - 13 X 1-3/4 BOLT,NUT,WASHER,ASSY
L	4	7/16 - 14 X 4 BOLT,NUT,WASHER,ASSY
M	8	1-3/8 LONG X 3/4 O.D INLET SPRING
N	8	3/4 LONG X 3/4 O.D. OUTLET SPRING
O	20	7/16 WASHER

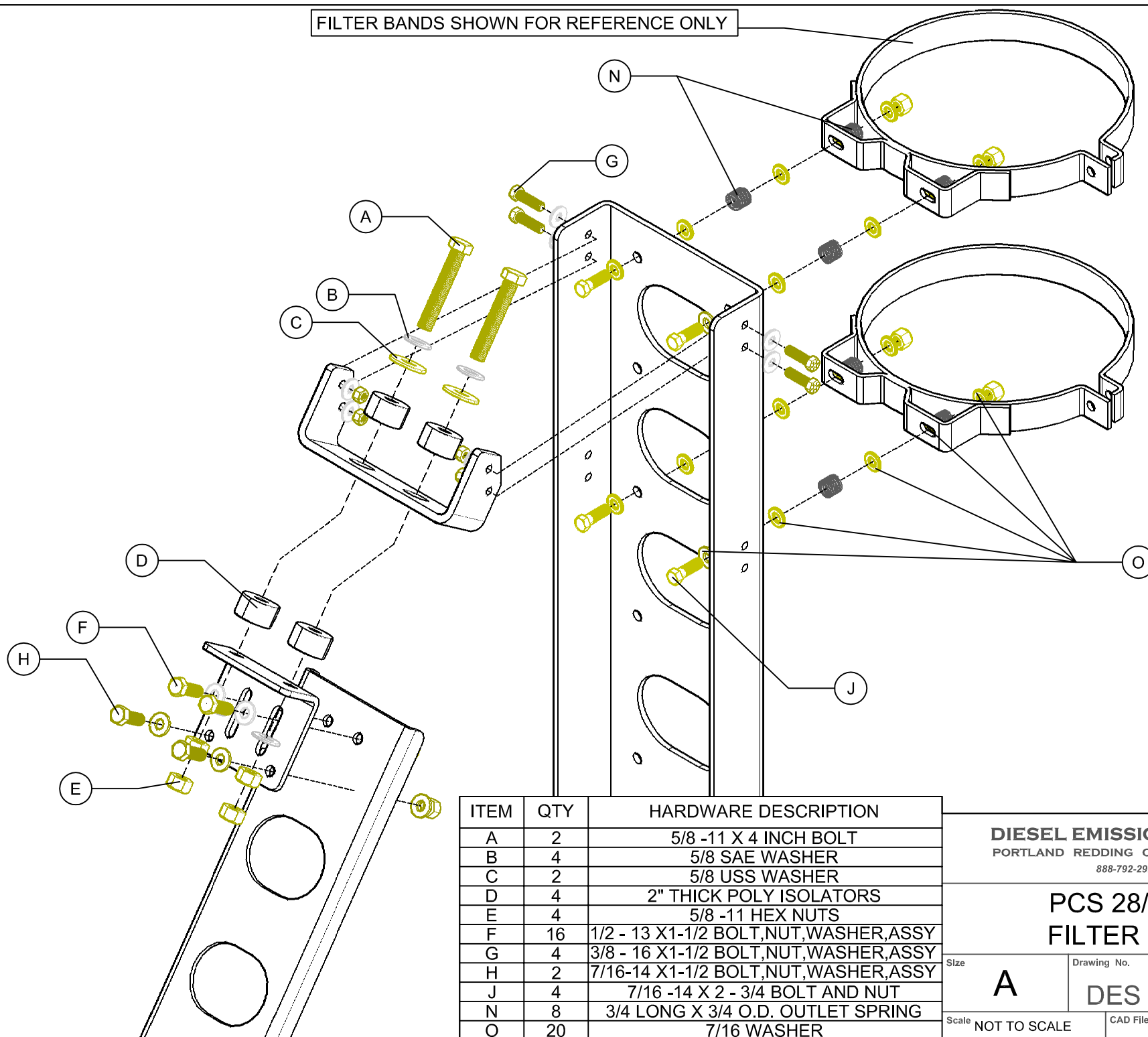
ITEM	QTY	COMPONENT DESCRIPTION
1	1	FILTER SUPPORT BRACKET
2	1	VERTICAL STANCHION
3	1	UPPER ISOLATOR BRACKET
4	1	UPPER CROSS BAR BRACKET
5	1	CROSS BAR
6	1	LOWER CROSS BAR BRACKET
7	1	FRAME MOUNT STANCHION SUPPORT

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## PCS 28/35 EGR FILTER MOUNT

Size	Drawing No.	Rev
A	DES M9011	
Scale NOT TO SCALE	CAD File	Sheet 1 OF 9

FILTER BANDS SHOWN FOR REFERENCE ONLY

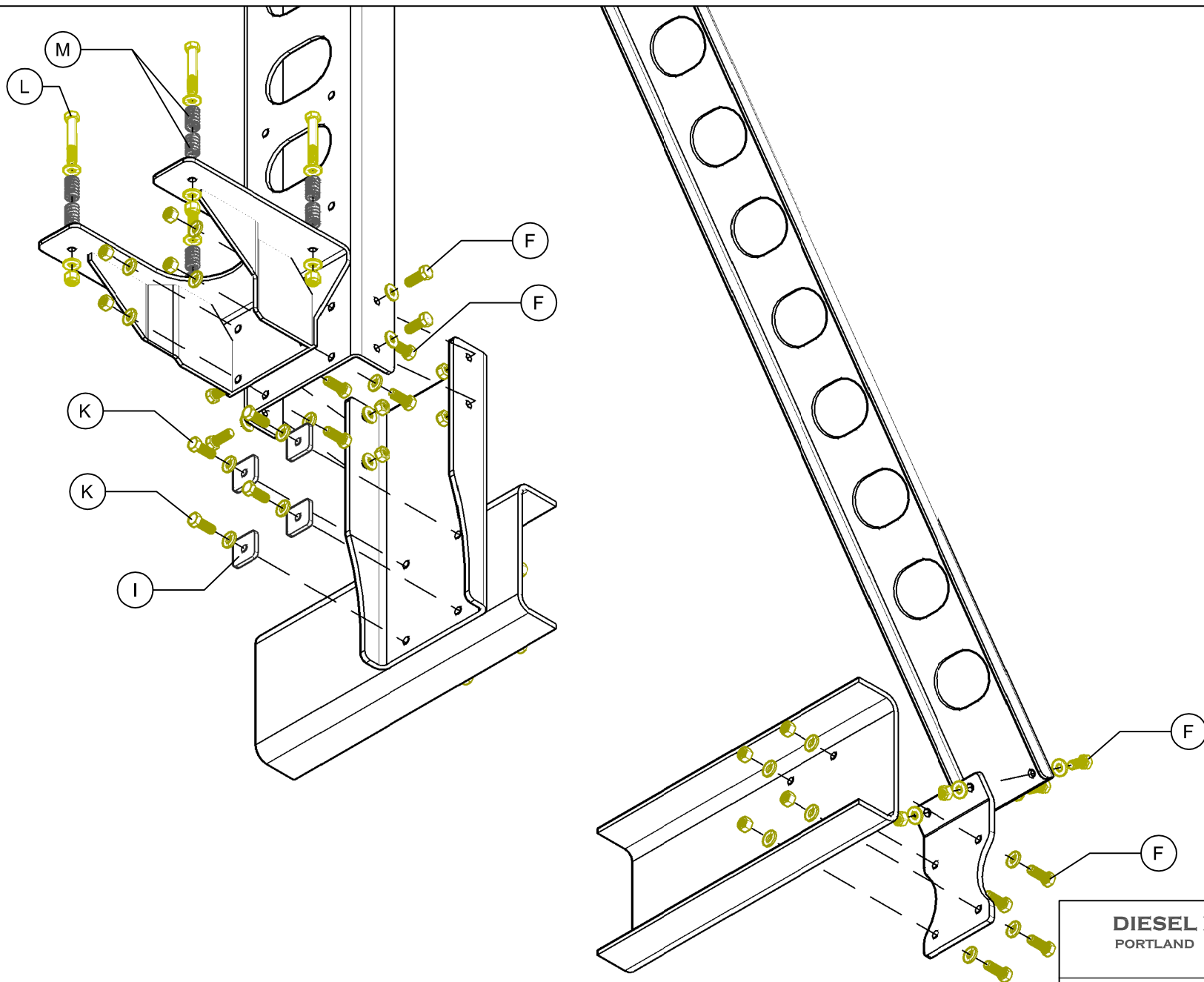


ITEM	QTY	HARDWARE DESCRIPTION
A	2	5/8 -11 X 4 INCH BOLT
B	4	5/8 SAE WASHER
C	2	5/8 USS WASHER
D	4	2" THICK POLY ISOLATORS
E	4	5/8 -11 HEX NUTS
F	16	1/2 - 13 X1-1/2 BOLT,NUT,WASHER,ASSY
G	4	3/8 - 16 X1-1/2 BOLT,NUT,WASHER,ASSY
H	2	7/16-14 X1-1/2 BOLT,NUT,WASHER,ASSY
J	4	7/16 -14 X 2 - 3/4 BOLT AND NUT
N	8	3/4 LONG X 3/4 O.D. OUTLET SPRING
O	20	7/16 WASHER

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## PCS 28/35 EGR FILTER MOUNT

Size	Drawing No.	Rev
A	DES M9011	
Scale NOT TO SCALE	CAD File	Sheet 2 OF 9

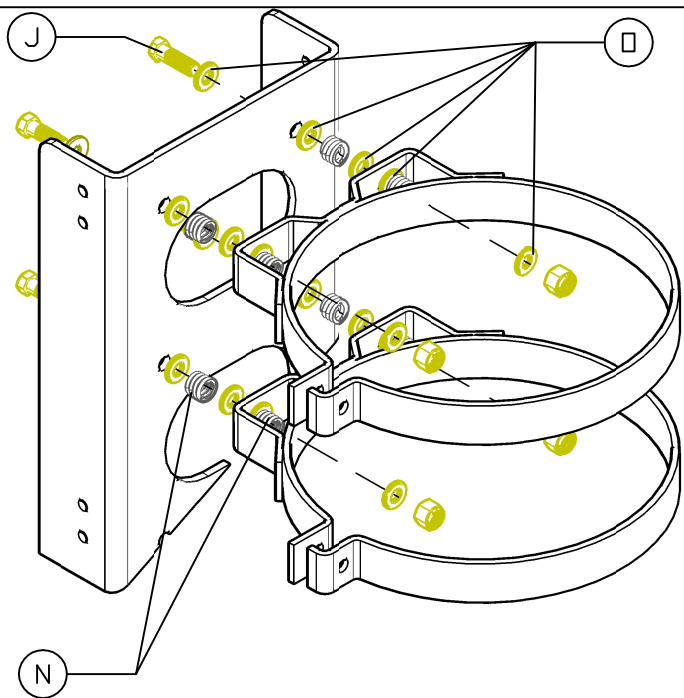


ITEM	QTY	HARDWARE DESCRIPTION
F	16	1/2 - 13 X 1-1/2 BOLT,NUT,WASHER,ASSY
I	4	1/4 X 2 X 2 BLACK SQUARE WASHER
K	4	1/2 - 13 X 1-3/4 BOLT,NUT,WASHER,ASSY
L	4	7/16 - 14 X 4 BOLT,NUT,WASHER,ASSY
M	8	1-3/8 LONG X 3/4 I.D. INLET SPRING

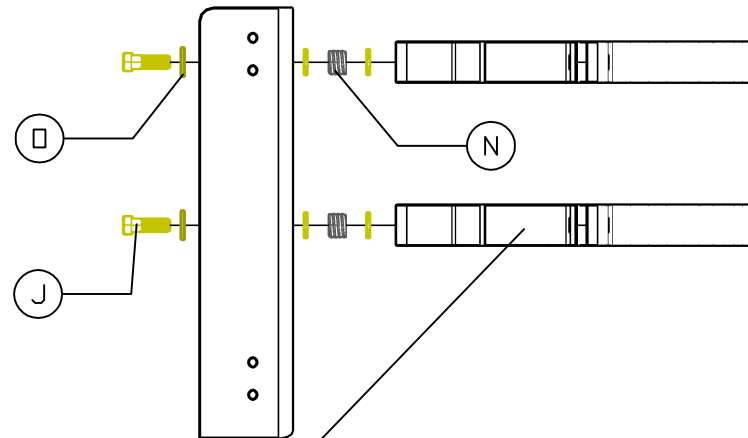
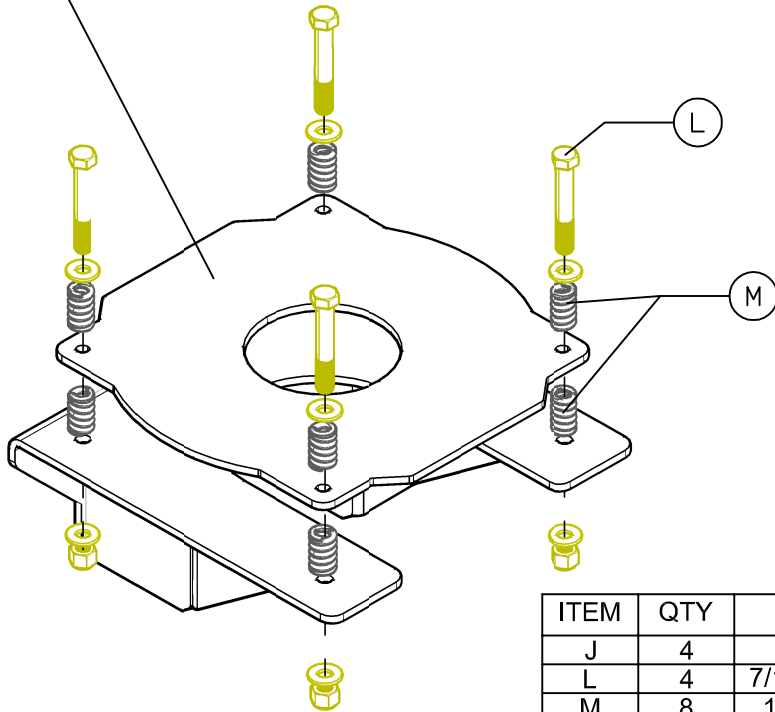
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## PCS 28/35 EGR FILTER MOUNT

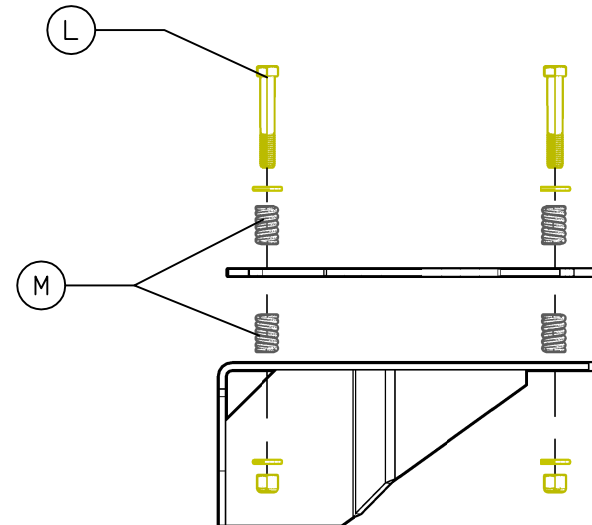
Size	Drawing No.	Rev
<b>A</b>	<b>DES M9011</b>	
Scale NOT TO SCALE	CAD File	Sheet 3 OF 9



FILTER BASE SHOWN FOR REFERENCE ONLY



FILTER BAND SHOWN FOR REFERENCE ONLY



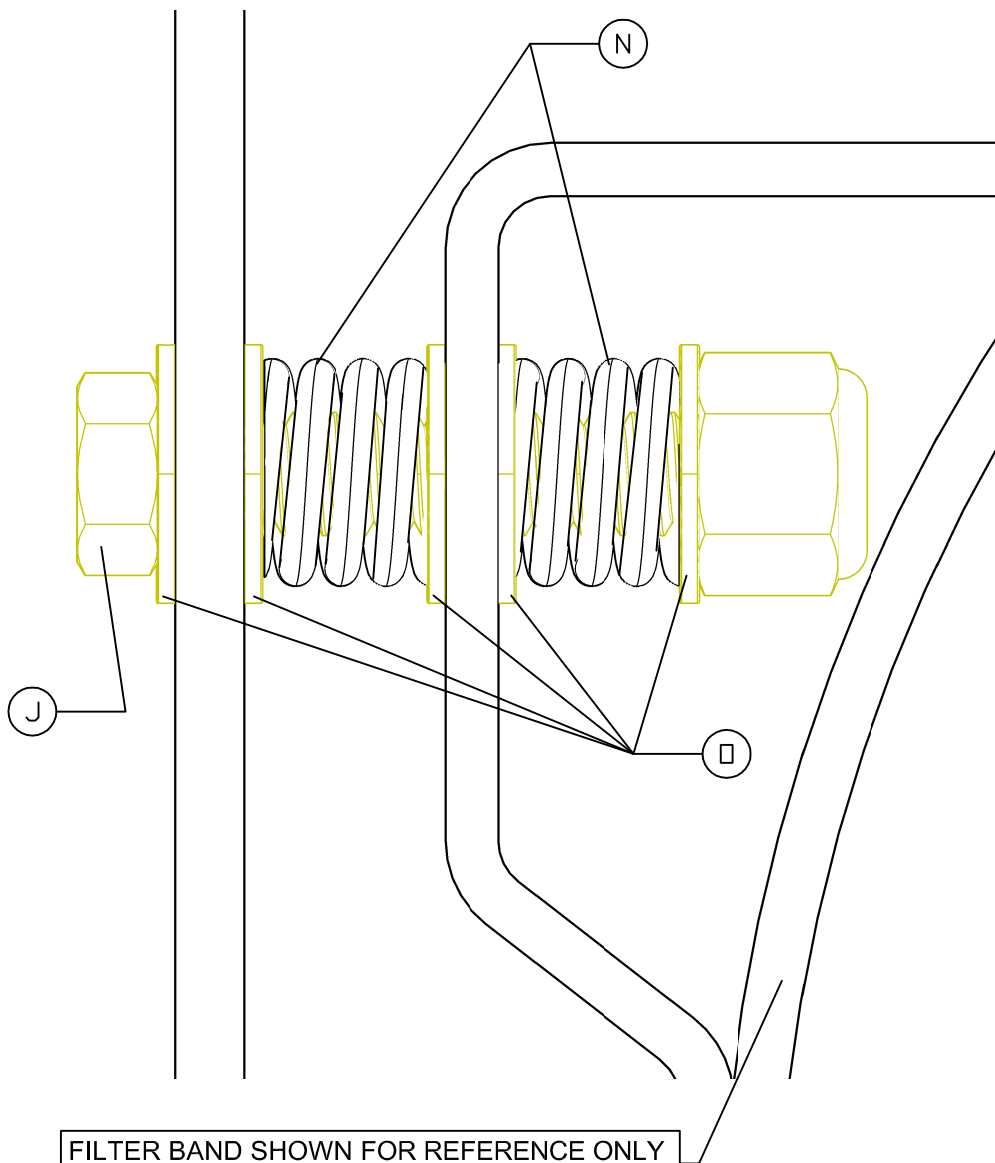
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**PCS 28/35 EGR  
FILTER MOUNT**

ITEM	QTY	HARDWARE DESCRIPTION
J	4	7/16 -14 X 2-3/4 BOLT AND NUT
L	4	7/16 - 14 X 4 BOLT,NUT,WASHER,ASSY
M	8	1-3/8 LONG X 3/4 O.D. INLET SPRING
N	8	3/4 LONG X 3/4 O.D. OUTLET SPRING
O	20	7/16 WASHER

Size	Drawing No.	Rev
A	DES M9011	
Scale	CAD File	Sheet
NOT TO SCALE		4 OF 9

# CORRECT

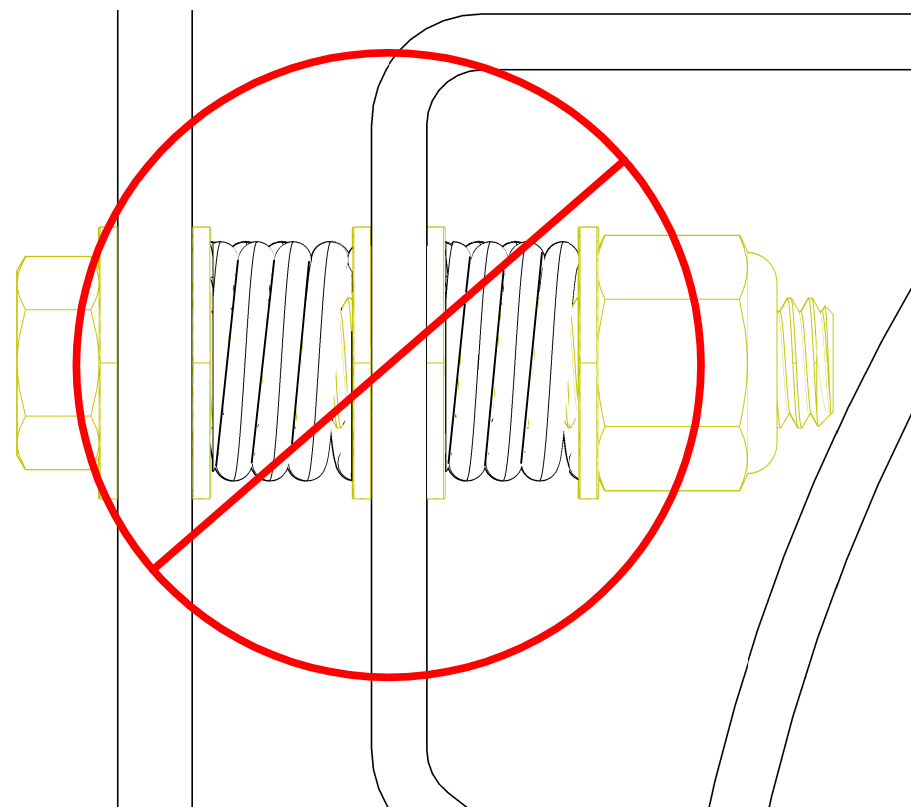


FILTER BAND SHOWN FOR REFERENCE ONLY



OUTLET ISOLATION SPRINGS (N)  
MUST BE COMPRESSED EQUALLY

# INCORRECT



DO NOT OVER COMPRESS SPRINGS TO  
THE POINT THAT THE SPRING COILS  
CONTACT ONE ANOTHER

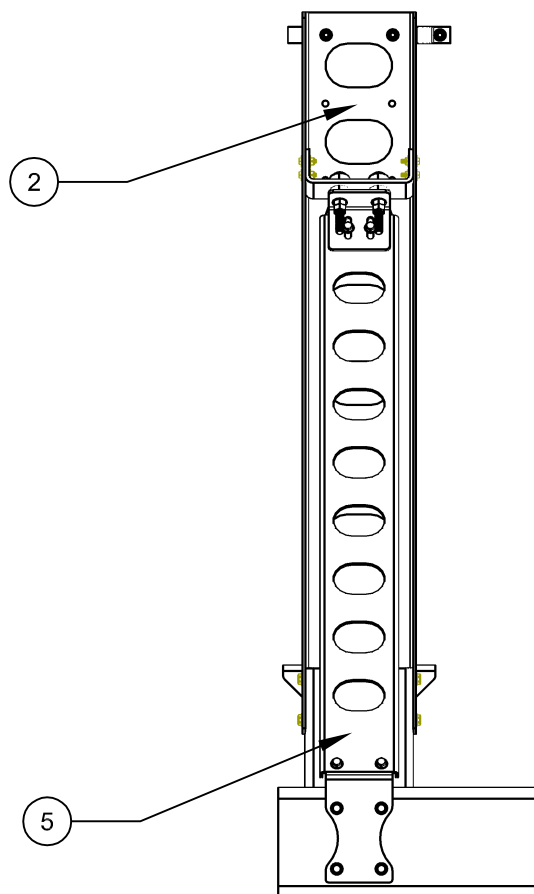
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**PCS 28/35 EGR  
FILTER MOUNT**

ITEM	QTY	HARDWARE DESCRIPTION
J	4	7/16 -14 X 2 - 3/4 BOLT,NUT
N	8	3/4 LONG X 3/4 O.D. OUTLET SPRING
O	20	7/16 WASHER

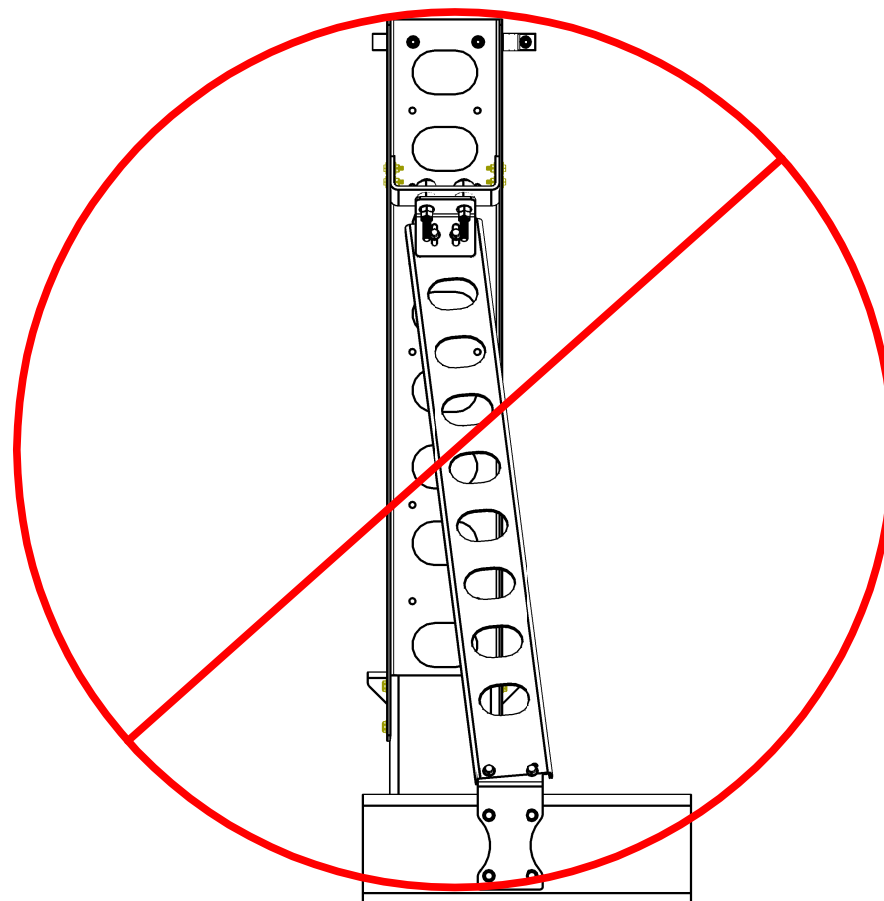
Size	Drawing No.	Rev
A	DES M9011	
Scale	CAD File	Sheet
NOT TO SCALE		5 OF 9

## CORRECT



CROSS BAR(5) MUST BE PLACED  
PARALLEL TO VERTICAL STANCHION(2)

## INCORRECT



FAILURE TO INSTALL CROSS BAR (5) PARALLEL  
TO VERTICAL STANCHION (2) CAN COMPROMISE  
BRACKET INTEGRITY AND RESULT IN BRACKET  
FAILURE AND OR DAMAGE TO FILTER!

ITEM	QTY	COMPONENT DESCRIPTION
2	1	VERTICAL STANCHION
5	1	CROSS BAR

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Drawing No.

**DES M9011**

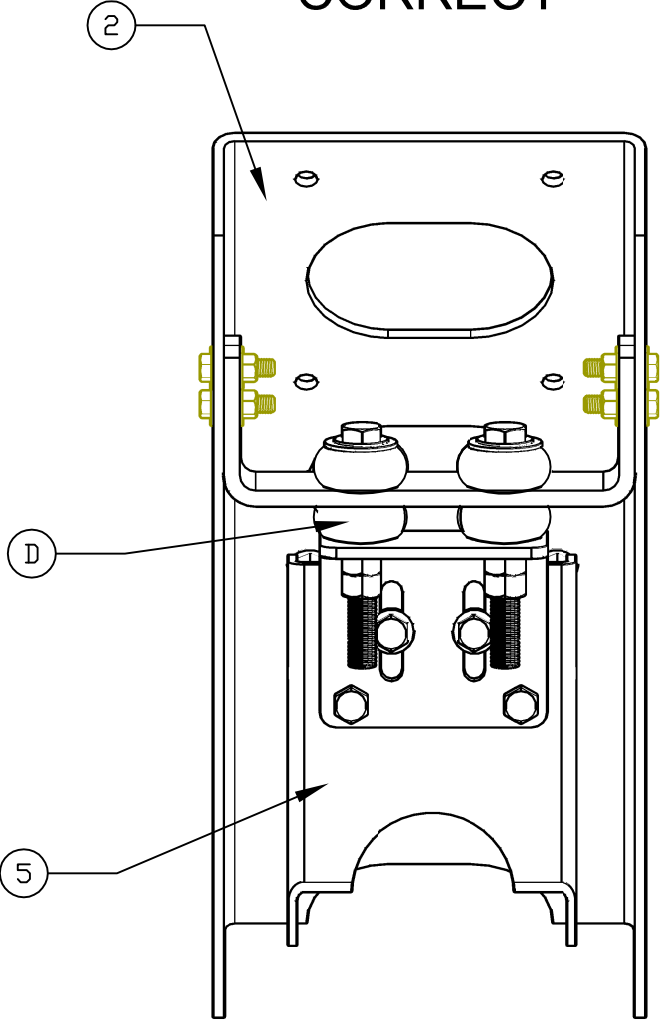
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Size A


Sheet  
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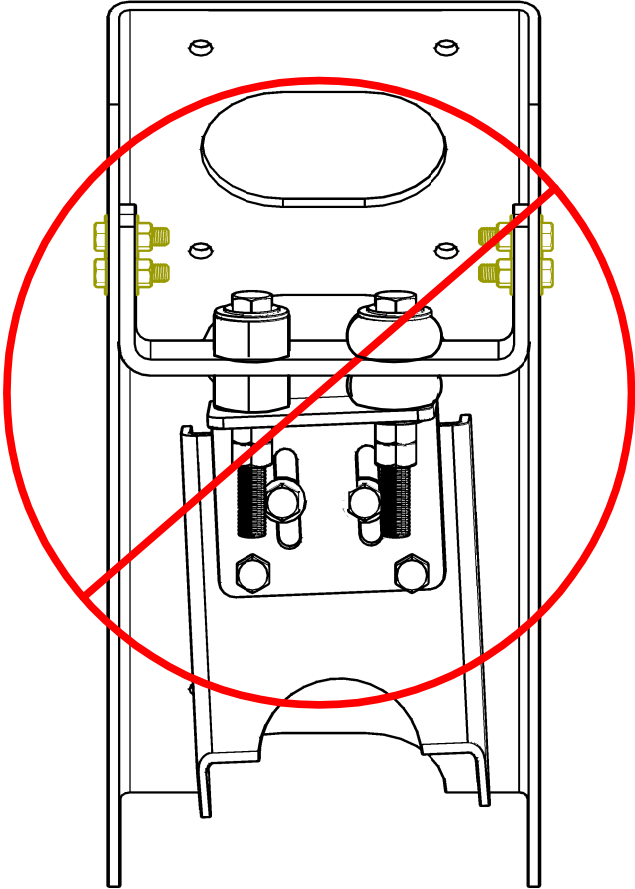
CORRECT




 ISOLATORS (D) MUST BE COMPRESSED EQUALLY

 ISOLATORS (D) SHOULD BE COMPRESSED APPROXIMATELY 25-30%

INCORRECT



 IMPROPER ISOLATOR COMPRESSION CAN LEAD TO ISOLATOR AND BRACKET FAILURE

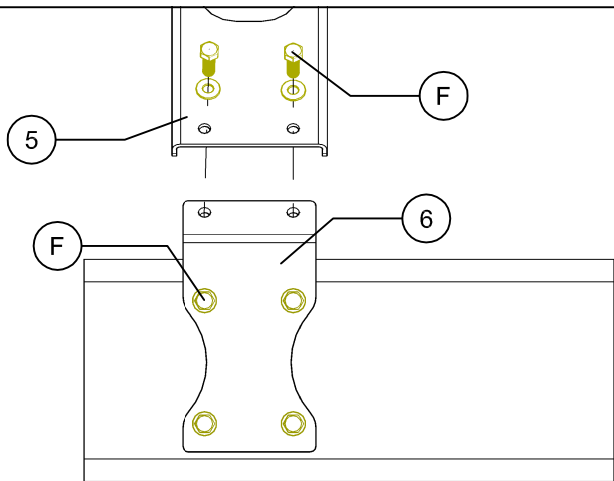
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Drawing No. **DES M9011**

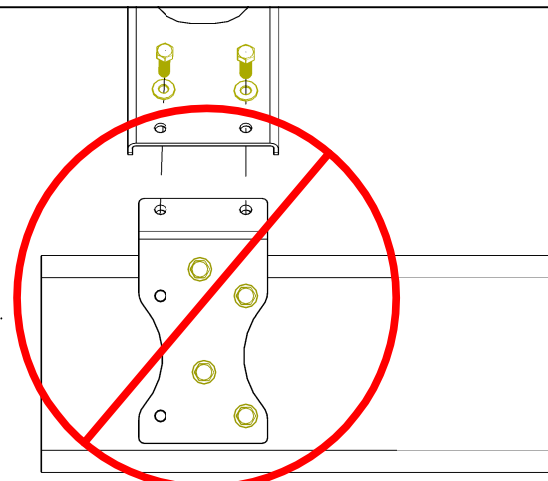
ITEM	QTY	COMPONENT DESCRIPTION
2	1	VERTICAL STANCHION
5	1	CROSS BAR

ITEM	QTY	HARDWARE DESCRIPTION
D	4	2" THICK POLY ISOLATORS

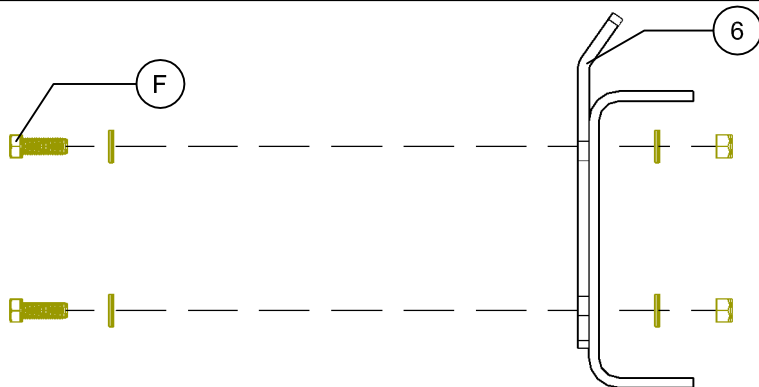
Scale NOT TO SCALE	Size A	Sheet 7 OF 9
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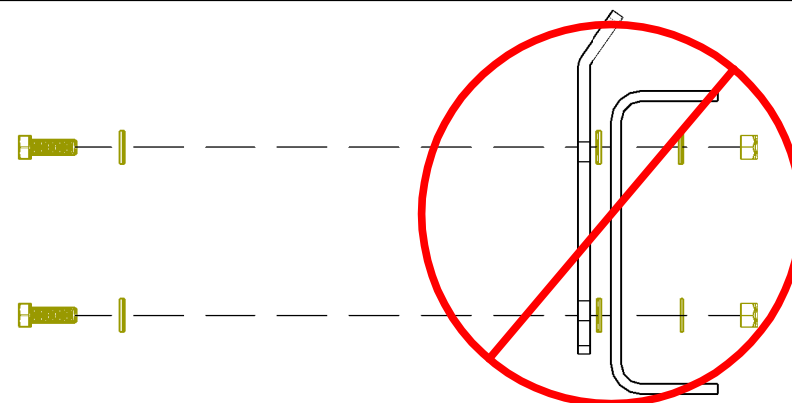
USE ALL PROVIDED GRADE 8 FASTENERS  
AND MANUFACTURED HOLES



DO NOT ALTER BRACKET OR  
FASTENER HOLE LOCATIONS



LOWER CROSS BAR BRACKET (6) MUST  
SEAT FLUSH TO FRAME RAIL



NEVER SPACE LOWER CROSS BAR  
BRACKET (6) AWAY FROM FRAME RAIL

ITEM	QTY	COMPONENT DESCRIPTION	ITEM	QTY	HARDWARE DESCRIPTION
5	1	CROSS BAR	F	16	1/2 - 13 X1-1/2 BOLT,NUT,WASHER,ASSY
6	1	LOWER CROSS BAR BRACKET			

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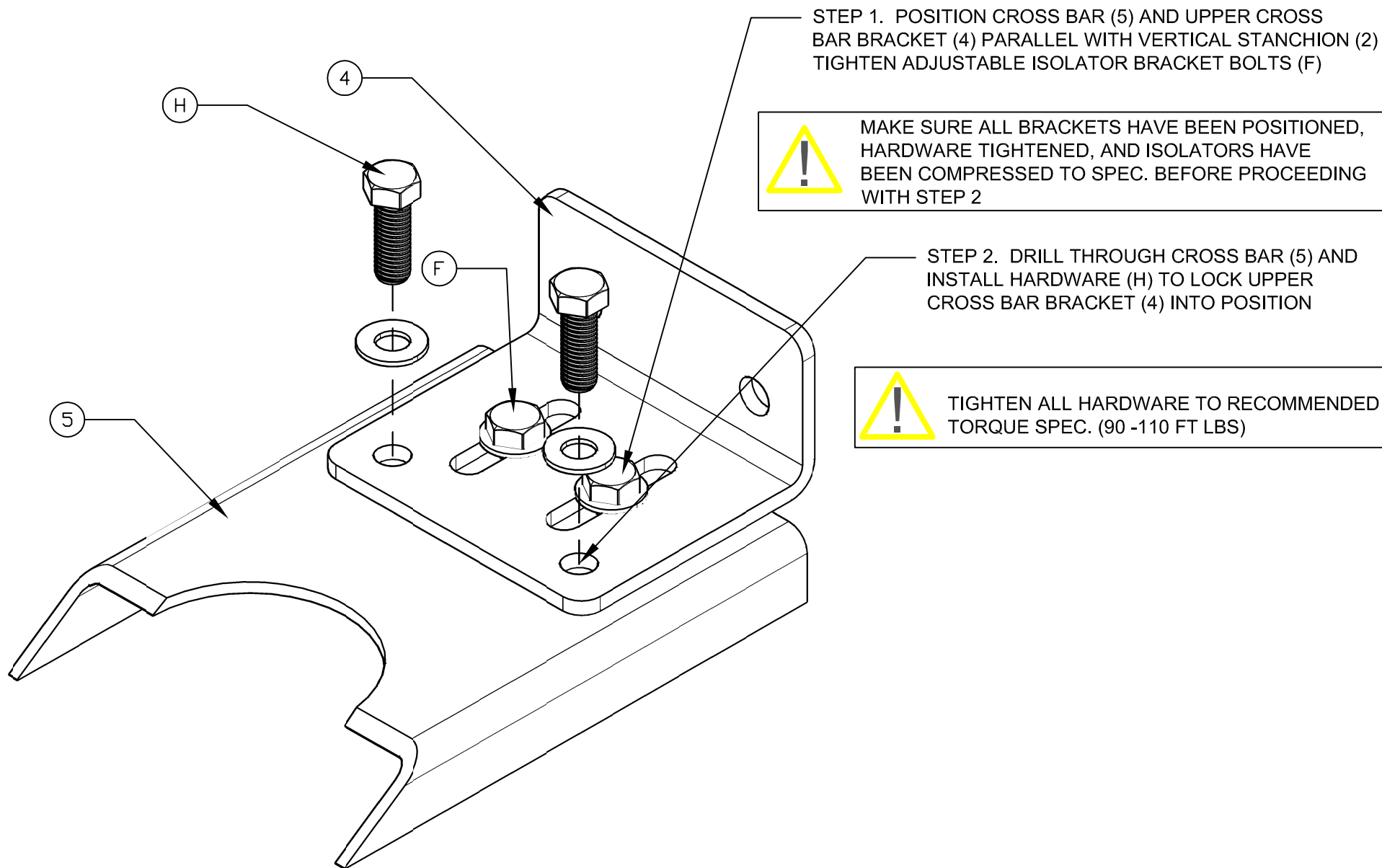
Drawing No.

**DES M9011**

Scale NOT TO SCALE

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Sheet  
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ITEM	QTY	COMPONENT DESCRIPTION	ITEM	QTY	HARDWARE DESCRIPTION	Drawing No. <b>DES M9011</b>		
4	1	UPPER CROSS BAR BRACKET	F	16	1/2 - 13 X1-1/2 BOLT,NUT,WASHER,ASSY	Scale	NOT TO SCALE	Size
5	1	CROSS BAR	H	2	7/16-14 X1-1/2 BOLT,NUT,WASHER,ASSY		A	Sheet
						9 OF 9		