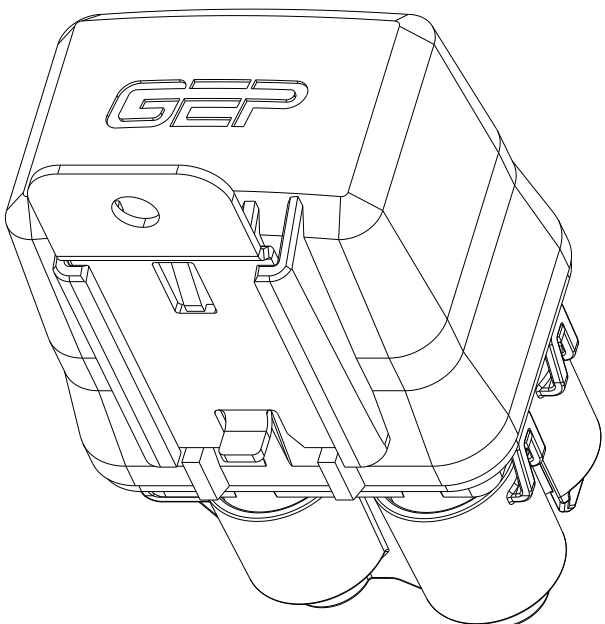


REV	REVISION DETAILS	ECO	DATE	BY	ABY
0	INITIAL RELEASE	NP-006937	07-01-2025	JWK	JML



ISO VIEW  
FOR REF ONLY

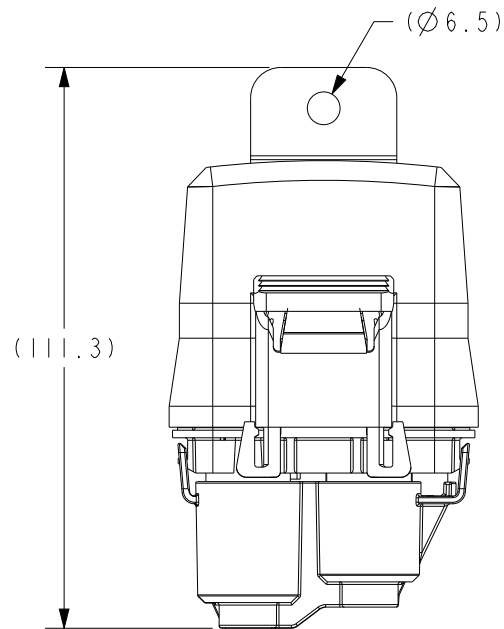
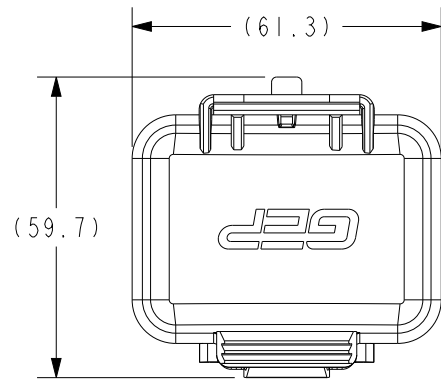
**CONFIDENTIAL**

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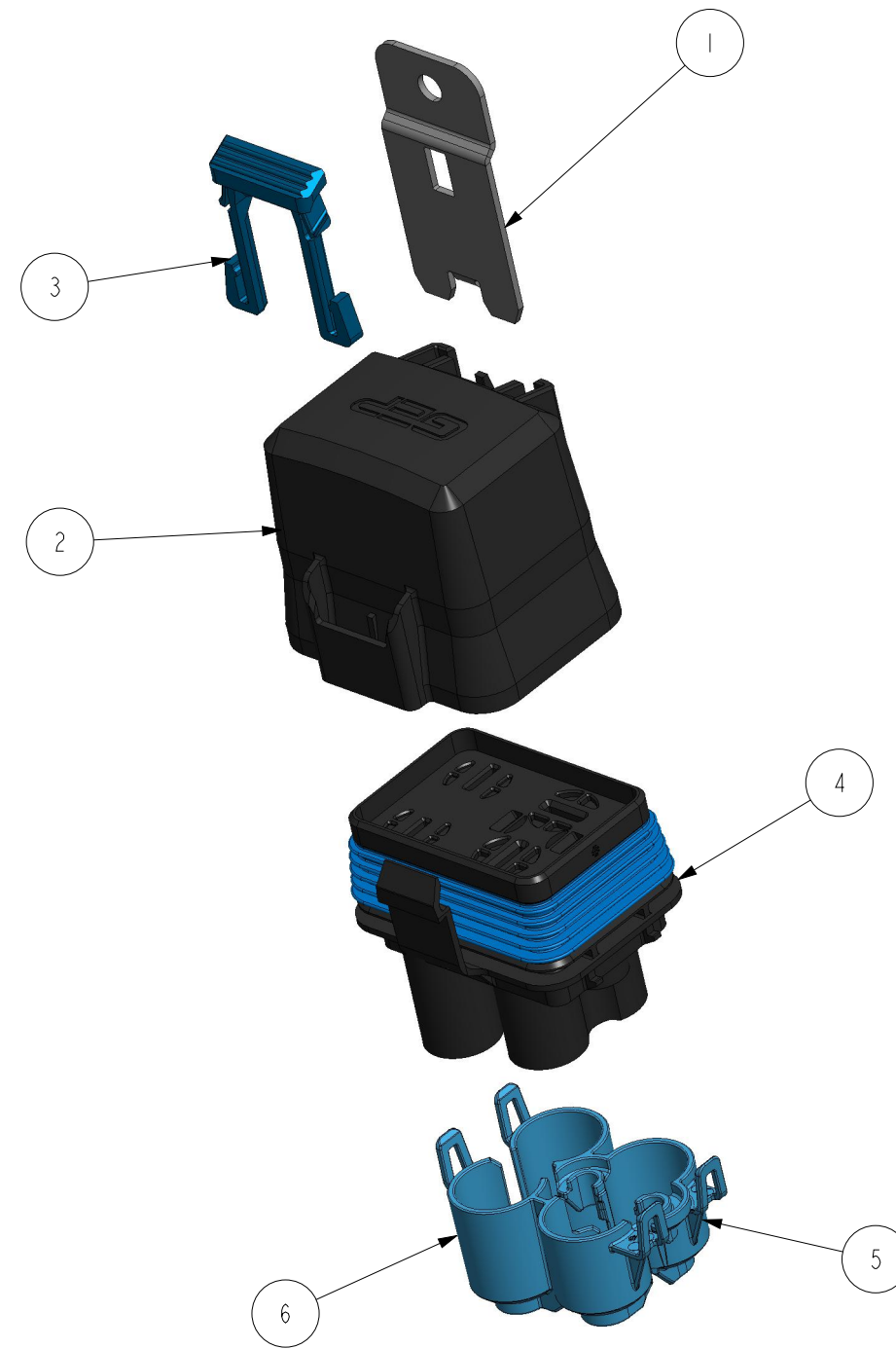
CRITICAL DIMENSIONS ON FEATURES TO BE CHECKED DURING ANY SET-UP ADJUSTMENTS, TOOL CHANGES, OR ANNUAL MAINTENANCE ON TOOLING.	DIMENSIONS OR FEATURES TO BE CHECKED FROM RUN-TO-RUN
TOLERANCES UNLESS OTHERWISE SPECIFIED	
THIRD ANGLE PROJECTION 	
METRIC TOL	ENGLISH TOL
1 PL DEC. = ±.25 2 PL DEC. = ±.13	2 PL DEC. = ±.01 3 PL DEC. = ±.005
ANGULAR TOL = ±2° FRACTION TOL = ±1/64 IN	
DIMENSIONS INSIDE PARENTHESES OR CONTAINING "REF" ARE FOR REFERENCE ONLY.	

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		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:	FRH - MAXI ISO RELAY & MAXI FUSE SERIES (SALES)			
DESCRIPTION:	FRH - MAXI ISO RELAY AND MAXI FUSE SERIES DRAWING			
CUSTOMER:	STANDARD			
METRIC (MM)	REV	SHEET	SCALE	SIZE
	0	1 OF 8	1:1	B



EXAMPLE CONFIGURATION WITH DIMENSIONAL INFO



EXAMPLE CONFIGURATION EXPLODE VIEW

NOTES:

1. HOUSING, COVER & CPA MATERIAL: UNFILLED PBT
2. TPA MATERIAL: NYLON
3. BRACKET MATERIAL: ZINC PLATED STEEL OR STAINLESS STEEL
4. DESIGNED TO USE LEAR MAK8 TERMINALS WITH GEP SEALS, DELPHI 630 TERMINALS AND CABLE SEALS, LITTELFUSE MINI & MAXI FUSES (SEE TABLES C, D & E)
5. MOUNTING HOLE TO ANTI-ROTATION TAB DIM
6. RoHS AND REACH COMPLIANT

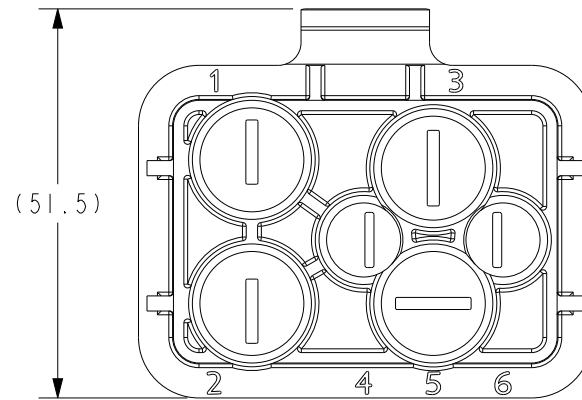
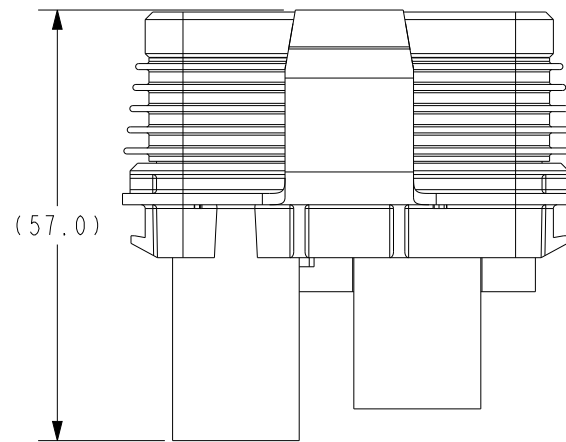
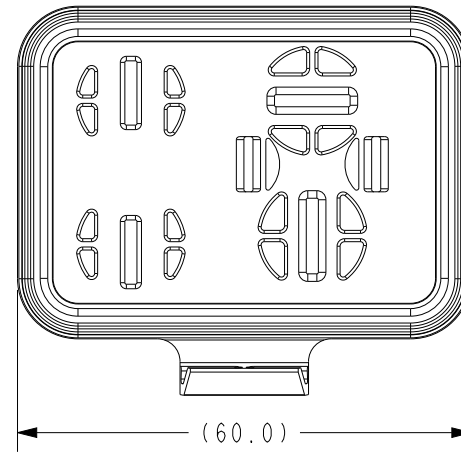
EXAMPLE CONFIGURATION BOM

ITEM	DESCRIPTION	PART NO.	QTY
1	BRACKET - PDM - FRH - FLAT WITH ANTI-ROTATION - ZINC STEEL	FRH-A12-MB-A1	1
2	COVER - PDM, FRH 24 POS	FRH-A24-C	1
3	CPA - PDM - FRH	FRH-A-CPA	1
4	HOUSING AND SEAL - FRH - MAXI ISO RELAY AND MAXI FUSE - 32V	SC42-2026A-A001	1
5	TPA - FRH - MAXI ISO RELAY AND MAXI FUSE - A SIDE	SC38-2015A-B003	1
6	TPA - FRH - MAXI ISO RELAY AND MAXI FUSE - B SIDE	SC38-2015B-B003	1

<b>GEP</b> POWER PRODUCTS		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:	FRH - MAXI ISO RELAY & MAXI FUSE SERIES (SALES)			
DESCRIPTION:	FRH - MAXI ISO RELAY AND MAXI FUSE SERIES DRAWING			
CUSTOMER:	STANDARD			
METRIC (MM)	REV 0	SHEET 2 OF 8	SCALE 1:1.5	SIZE B

# HOUSING W/SEAL OPTIONS

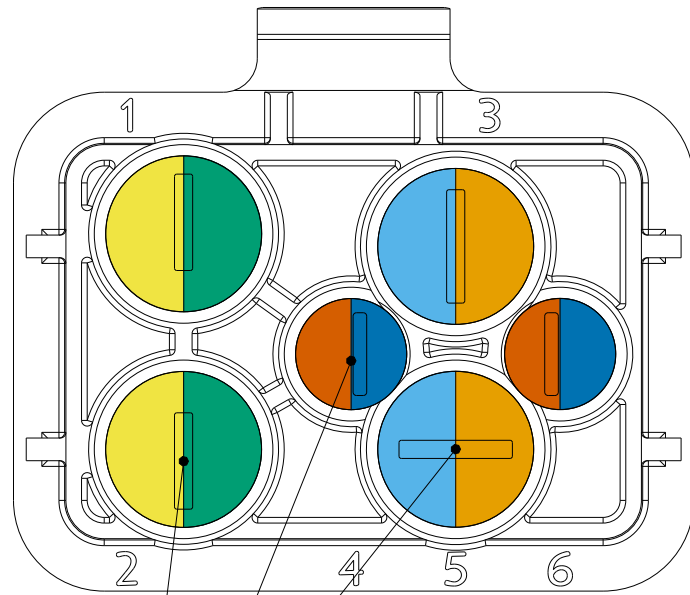
SC42-2026A-A001  
 HOUSING AND SEAL - FRH -  
 MAXI ISO RELAY AND MAXI FUSE - 32V



		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:		FRH - MAXI ISO RELAY & MAXI FUSE SERIES (SALES)		
DESCRIPTION:		FRH - MAXI ISO RELAY AND MAXI FUSE SERIES DRAWING		
CUSTOMER:		STANDARD		
METRIC (MM)	REV	SHEET	SCALE	SIZE
	0	3 OF 8	1:1	B

# HOUSING TERMINALS AND SEALS

SC42-2026A-A001  
HOUSING AND SEAL - FRH -  
MAXI ISO RELAY AND MAXI FUSE - 32V



LEAR MAK8 CAVITIES  
SEE TABLE D FOR TERMINALS  
AND CABLE SEALS

DUCON 9.5 CAVITIES  
SEE TABLE E FOR TERMINALS  
AND CABLE SEALS

630 CAVITIES  
SEE TABLE C FOR TERMINALS  
AND CABLE SEALS

Table C				REV 0
DELPHI 630 METRI-PACK TERMINALS (FOR REF. ONLY)				
PART #	RANGE (mm <sup>2</sup> )	MATERIAL	PLATING	
15317331	4.00-6.00	TIN BRASS	TIN	
12052456	3.00-5.00	TIN BRASS	TIN	
12052455	1.00-2.00	TIN BRASS	TIN	
12052457	0.50-0.80	TIN BRASS	TIN	
15317332	4.00-6.00	BERYLLIUM COPPER	SILVER/NICKEL	
15305232	3.00-5.00	BERYLLIUM COPPER	SILVER/NICKEL	
DELPHI 630 METRI-PACK CABLE SEALS (FOR REF. ONLY)				
PART # REEL	PART # LOOSE	CABLE DIA.	MATERIAL	COLOR
10730240	15324997	1.65-2.15	SILICONE	TAN
15344951	15324995	2.01-2.85	SILICONE	DK. RED
10730241	15324994	2.81-3.75	SILICONE	GRAY
15344032	15324996	3.61-4.50	SILICONE	BLUE
	15324993	4.40-5.10	SILICONE	GREEN
12077760	12077759	1.65-2.15	SILICONE	TAN
12059259	12052388	2.01-2.85	SILICONE	DK. RED
12059258	12052387	2.81-3.75	SILICONE	GRAY
12059260	12052668	3.61-4.50	SILICONE	BLUE
12059257	12052386	4.40-5.10	SILICONE	GREEN
	12059255	PLUG	SILICONE	LT. GREEN
DELPHI 630 METRI-PACK TERMINAL REMOVAL TOOL (FOR REF. ONLY)				
PART # 12094430				

Table E				REV 0
DELPHI 9.5 DUCON TERMINALS				
PART #	CABLE RANGE (mm <sup>2</sup> )	MATERIAL	PLATING	
15327010	4.0-6.0	COPPER ALLOY	TIN	
15482568	4.0-6.0	COPPER ALLOY	SILVER/TIN	
10730408	10	COPPER ALLOY	TIN	
15408423	10	COPPER ALLOY	SILVER/TIN	
15458196	16	COPPER ALLOY	TIN	
15458198	16	COPPER ALLOY	SILVER/TIN	
DELPHI 9.5 DUCON CABLE SEALS (FOR REF. ONLY)				
PART #	CABLE DIA.	MATERIAL	COLOR	
15492996	2.20-3.00	SILICONE	BLUE	
15327126	3.4-4.3	SILICONE	DK. RED	
10720983	6.00-6.40	SILICONE	GREEN	
15470809	6.50-7.75	SILICONE	RED	
10720907	PLUG	SILICONE	GREEN	
GEP CABLE SEALS - 9.5 DUCON (FOR REF. ONLY)				
PART #	CABLE DIA.	MATERIAL	COLOR	
PDM-TWS-D4	4.6-5.3	SILICONE	LIGHT BLUE	
DELPHI 9.5 DUCON TERMINAL REMOVAL TOOL (FOR REF. ONLY)				
PART # 10714800				

Table D				REV 1
LEAR MAK8 PLUS TERMINALS (FOR REF. ONLY)				
PART NUMBER	RANGE (mm <sup>2</sup> )	PLATING	VARIATION	
28224 306 710	2.5-4.0	SILVER	1 - LONG SEAL	
28469 306 189	2.5-4.0	SILVER/TIN	3 - SHORT SEAL	
28225 306 710	6.0-10.0	SILVER	1 - LONG SEAL	
28459 306 189	6.0-10.0	SILVER/TIN	3 - SHORT SEAL	
28243 306 710	10.0-16.0	SILVER	1 - LONG SEAL	
GEP CABLE SEALS (VARIATION 1 - LONG)				
PART NUMBER	CABLE DIA.	MATERIAL	COLOR	
PDM-TWS-L1	2.7-3.0	SILICONE	GREEN	
PDM-TWS-L2	3.4-3.8	SILICONE	PURPLE	
PDM-TWS-L3	4.0-4.5	SILICONE	ORANGE	
PDM-TWS-L4	4.6-5.3	SILICONE	LIGHT BLUE	
PDM-TWS-L5	5.8-6.6	SILICONE	GRAY	
PDM-TWS-L6	6.5-7.8	SILICONE	RED	
GEP CABLE SEALS (VARIATION 3 - SHORT)				
PART NUMBER	CABLE DIA.	MATERIAL	COLOR	
PDM-TWS-S1	2.7-3.0	SILICONE	GREEN	
PDM-TWS-S2	3.4-3.8	SILICONE	PURPLE	
PDM-TWS-S3	4.0-4.5	SILICONE	ORANGE	
PDM-TWS-S4	4.6-5.3	SILICONE	LIGHT BLUE	
PDM-TWS-S5	5.8-6.6	SILICONE	GRAY	
GEP CABLE SEAL PLUG				
PDM-TWS-P	N.A.	SILICONE	YELLOW	
LEAR MAK8 PLUS TERMINAL REMOVAL TOOL (FOR REF. ONLY)				
PART # 50000017609 BY Karl Püpplichhuisen GmbH & Co.				

**GEP POWER PRODUCTS** 16830 Pheasant Drive  
Brookfield, WI 53005

PART NO: FRH - MAXI ISO RELAY & MAXI FUSE SERIES (SALES)

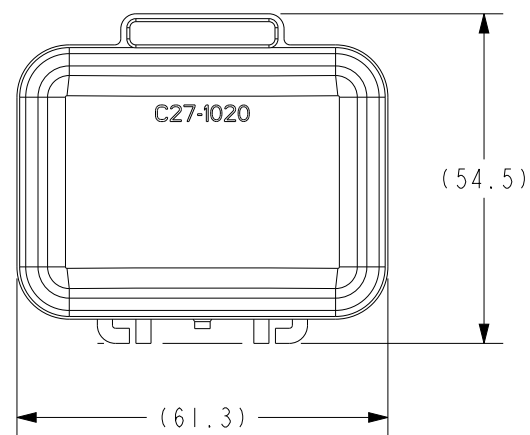
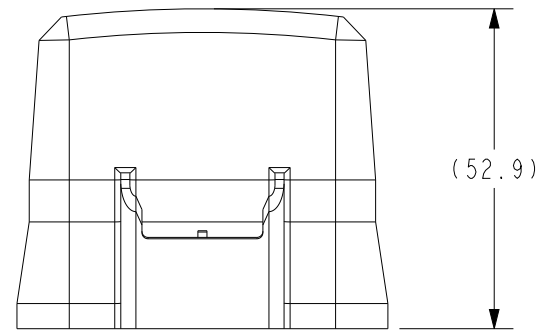
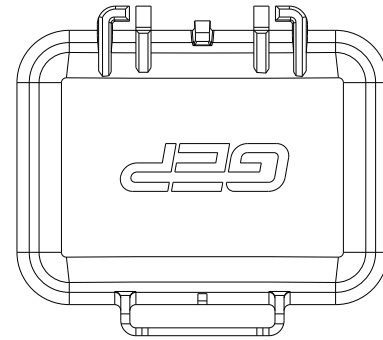
DESCRIPTION: FRH - MAXI ISO RELAY AND MAXI FUSE SERIES DRAWING

CUSTOMER: STANDARD

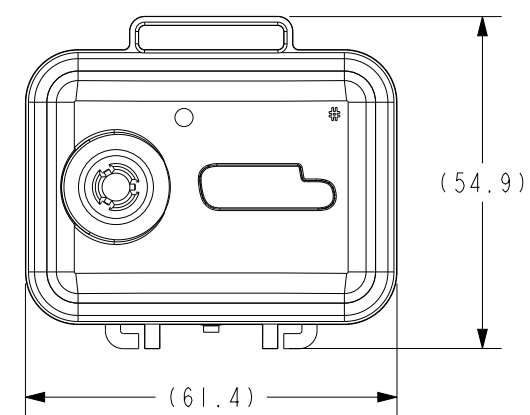
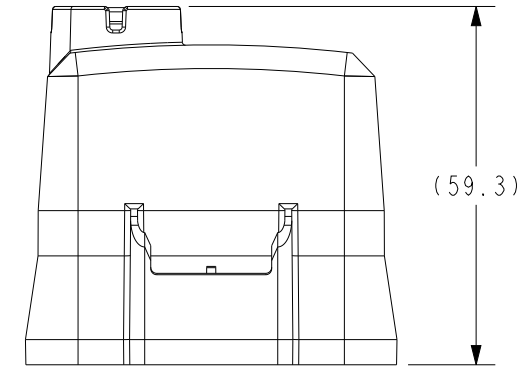
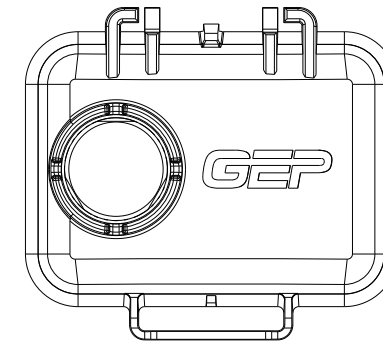
METRIC (MM)	REV 0	SHEET 4 OF 8	SCALE 1:1	SIZE B
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# COVER OPTIONS

FRH-A24-C  
COVER - PDM, FRH 24 POS



SC42-2028A-A001  
COVER WITH VENT - FRH - A24

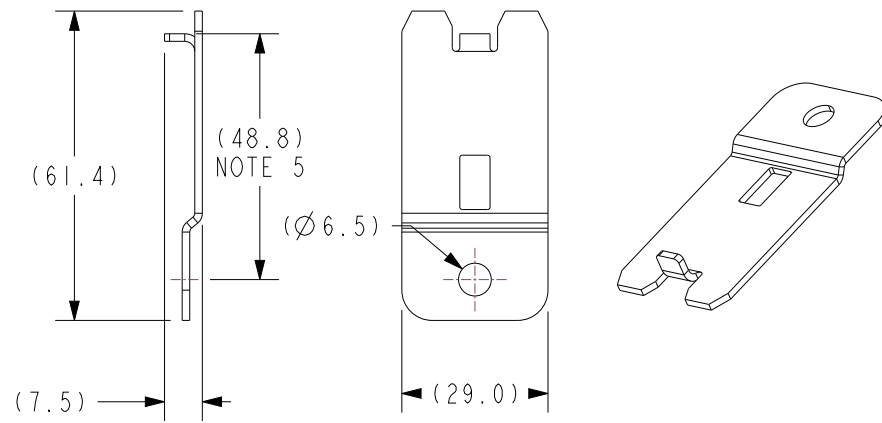


		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:		FRH - MAXI ISO RELAY & MAXI FUSE SERIES (SALES)		
DESCRIPTION:		FRH - MAXI ISO RELAY AND MAXI FUSE SERIES DRAWING		
CUSTOMER:		STANDARD		
METRIC (MM)	REV	SHEET	SCALE	SIZE
	0	5 OF 8	1:1	B

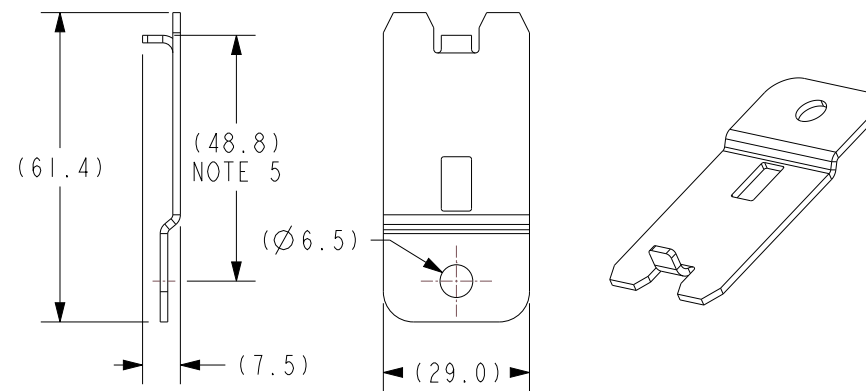
# FRH - ACCESSORY OPTIONS

FOR NON-STANDARD MOUNTING OPTIONS EMAIL  
GEPENGINEERING@GEPPOWERPRODUCTS.COM TO REVIEW

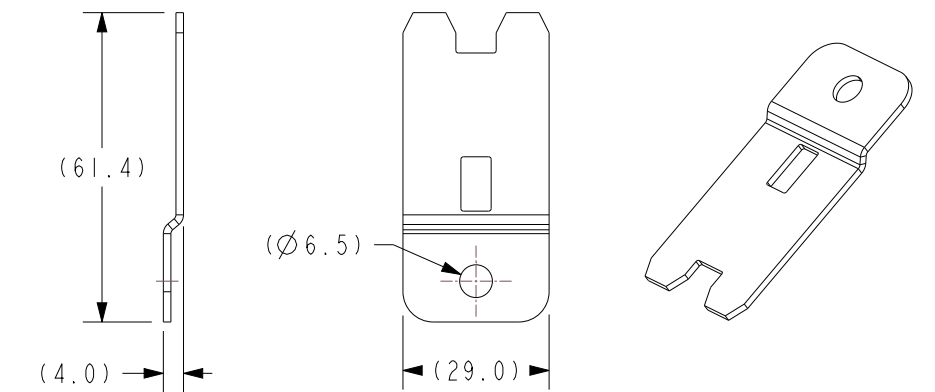
FRH-A12-MB-A1  
BRACKET - PDM,FRH,FLAT WITH ANTI-ROTATION, ZINC STEEL



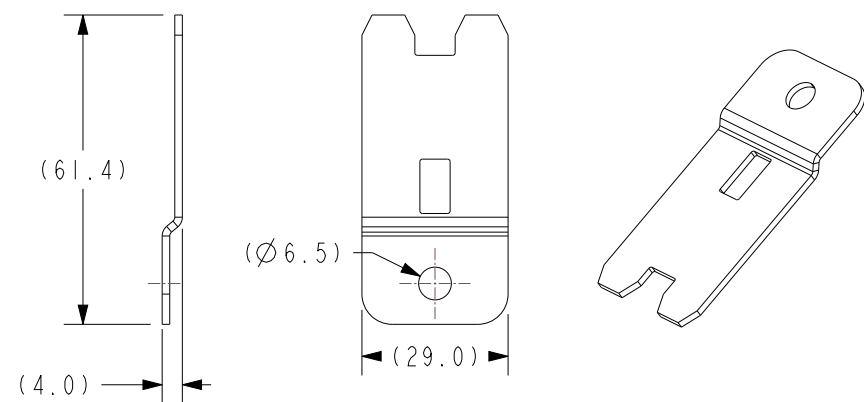
FRH-A12-MB-A2  
BRACKET - PDM, FRH, FLAT WITH ANTI-ROTATION, STAINLESS 304



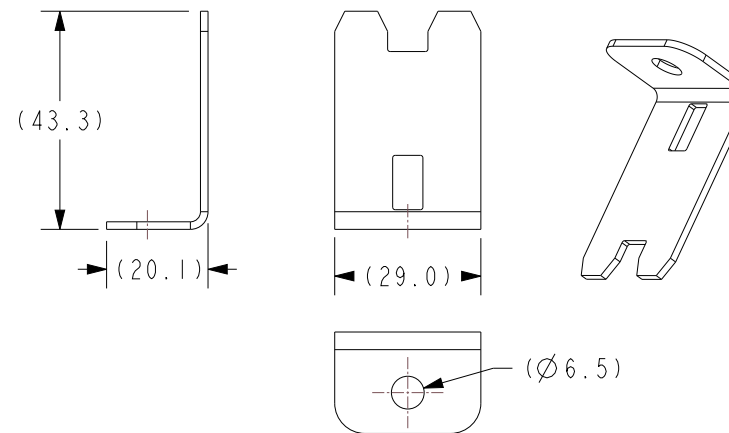
FRH-A12-MB-B1  
BRACKET - PDM, FRH, FLAT WITHOUT ANTI-ROTATION, ZINC STEEL



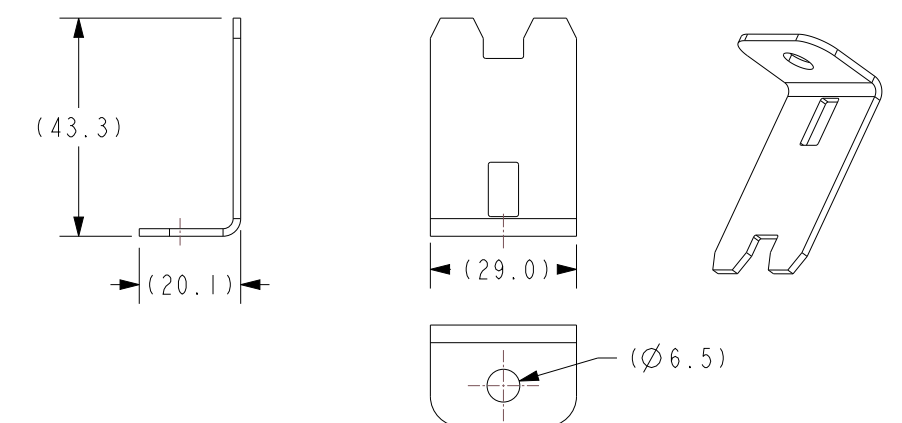
FRH-A12-MB-B2  
BRACKET - PDM, FRH, FLAT WITHOUT ANTI-ROTATION, STAINLESS 304



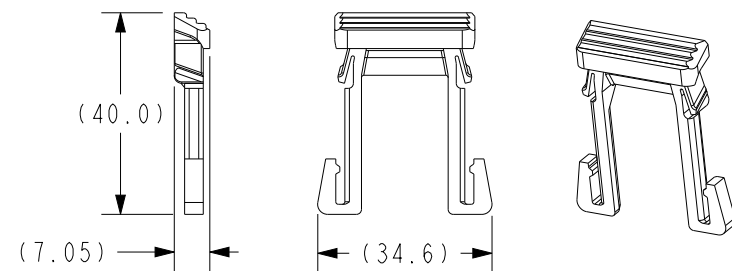
FRH-A12-MB-C1  
BRACKET - PDM, FRH, 90° BENT, ZINC STEEL



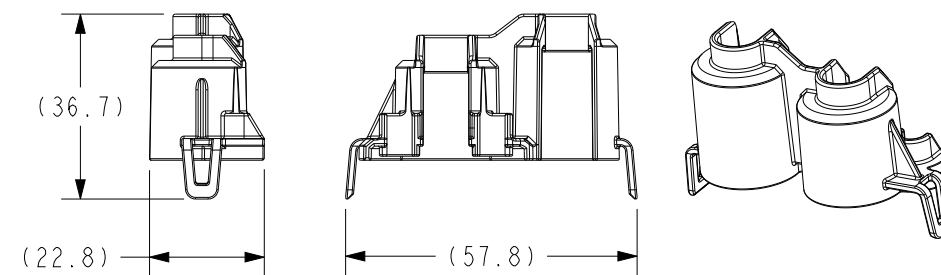
FRH-A12-MB-C2  
BRACKET - PDM, FRH, 90° BENT, STAINLESS 304



FRH-A-CPA  
CPA - PDM, FRH

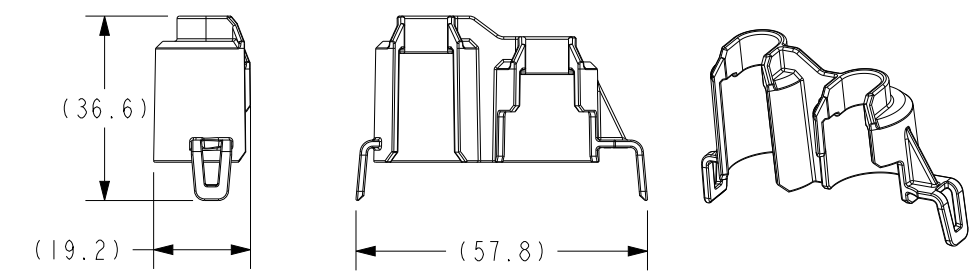


SC38-2015A-B003  
TPA - FRH - MAXI ISO RELAY AND MAXI FUSE - A SIDE



SCALE 1:1.5

SC38-2015B-B003  
TPA - FRH - MAXI ISO RELAY AND MAXI FUSE - B SIDE

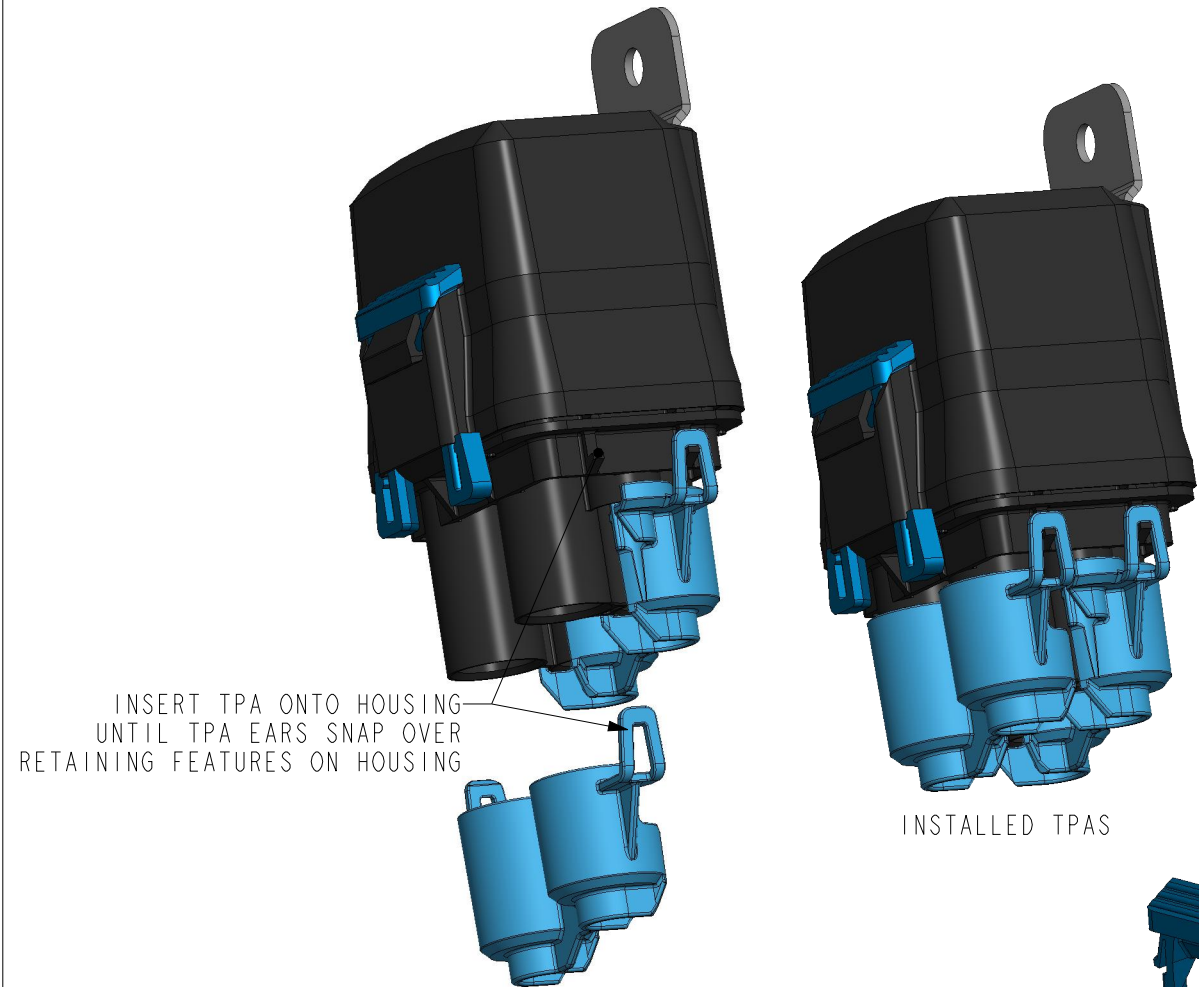


SCALE 1:1.5

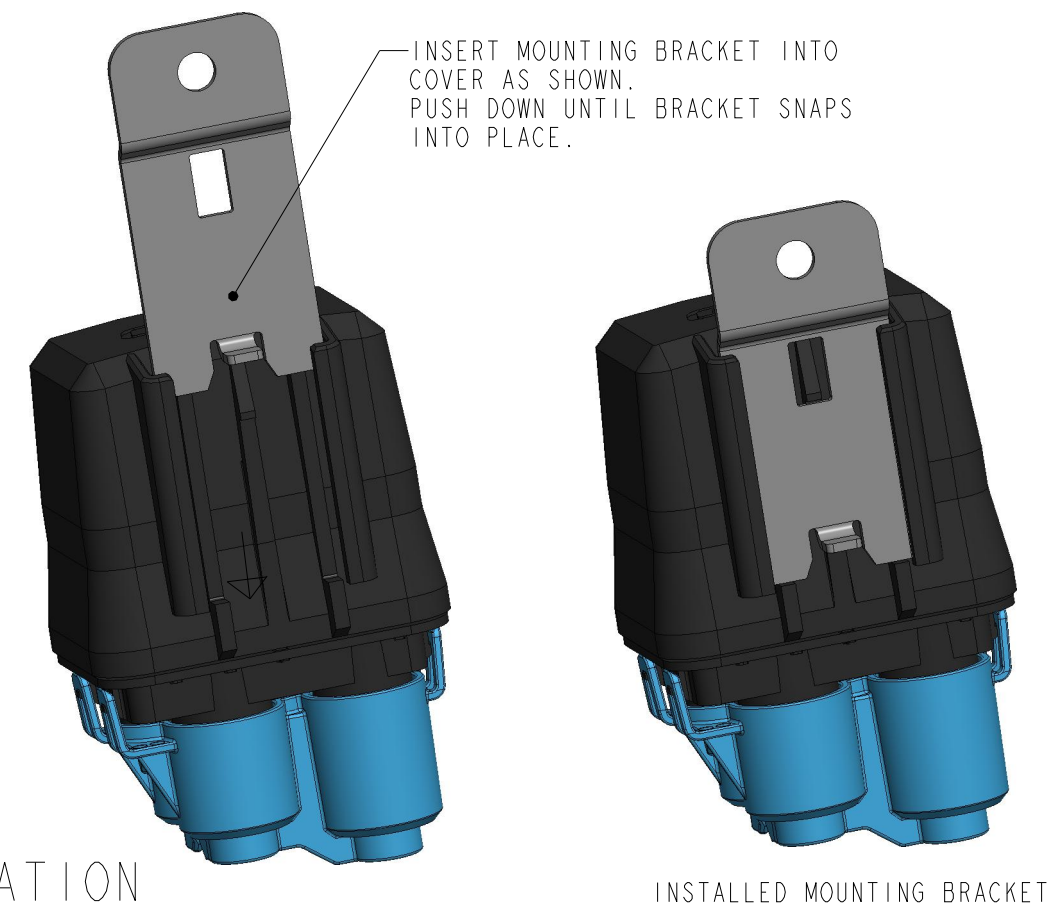
<b>GEP</b> POWER PRODUCTS		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:	FRH - MAXI ISO RELAY & MAXI FUSE SERIES (SALES)			
DESCRIPTION:	FRH - MAXI ISO RELAY AND MAXI FUSE SERIES DRAWING			
CUSTOMER:	STANDARD			
METRIC (MM)	REV 0	SHEET 6 OF 8	SCALE 1:1	SIZE B

# ACCESSORY ASSEMBLY INSTRUCTIONS

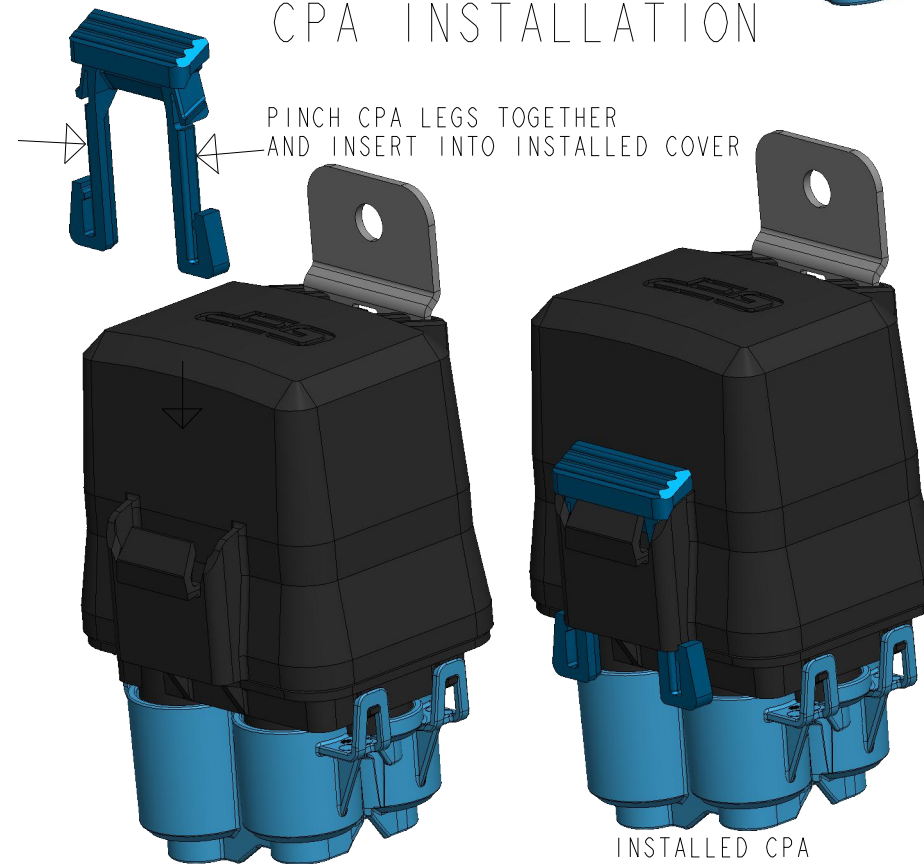
## TPA INSTALLATION



## MOUNTING BRACKET INSTALLATION



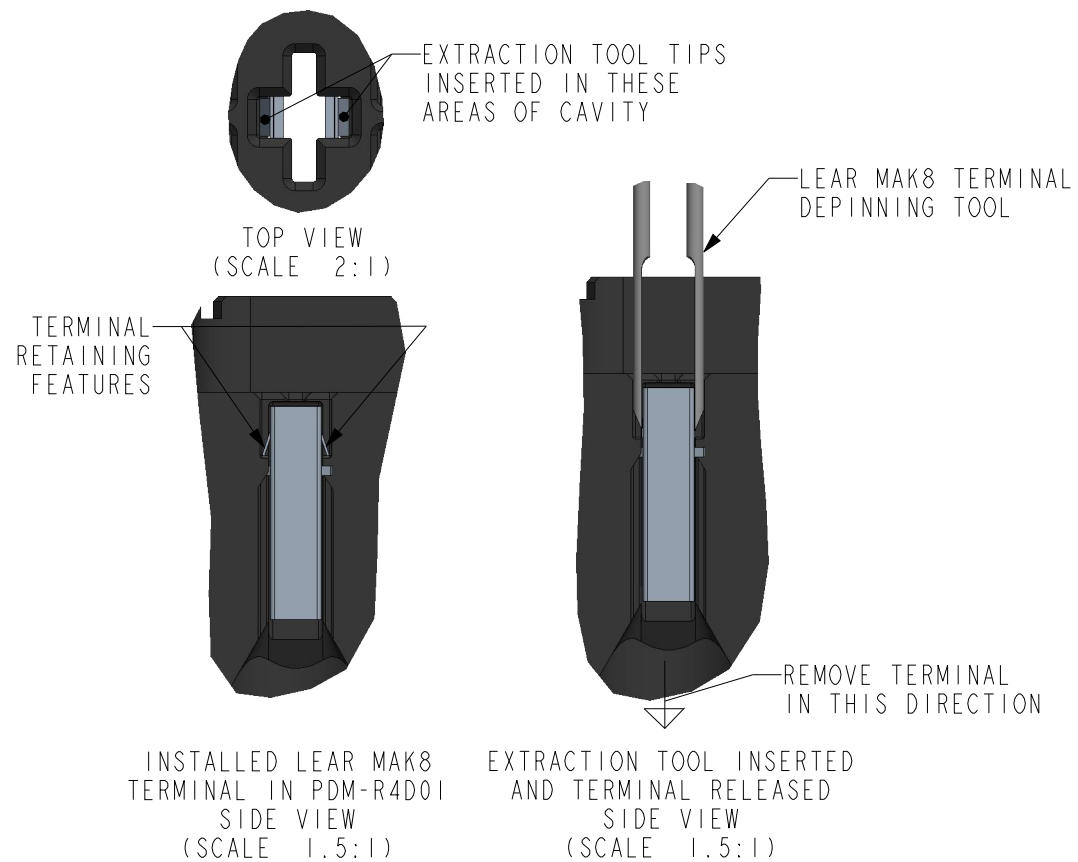
## CPA INSTALLATION



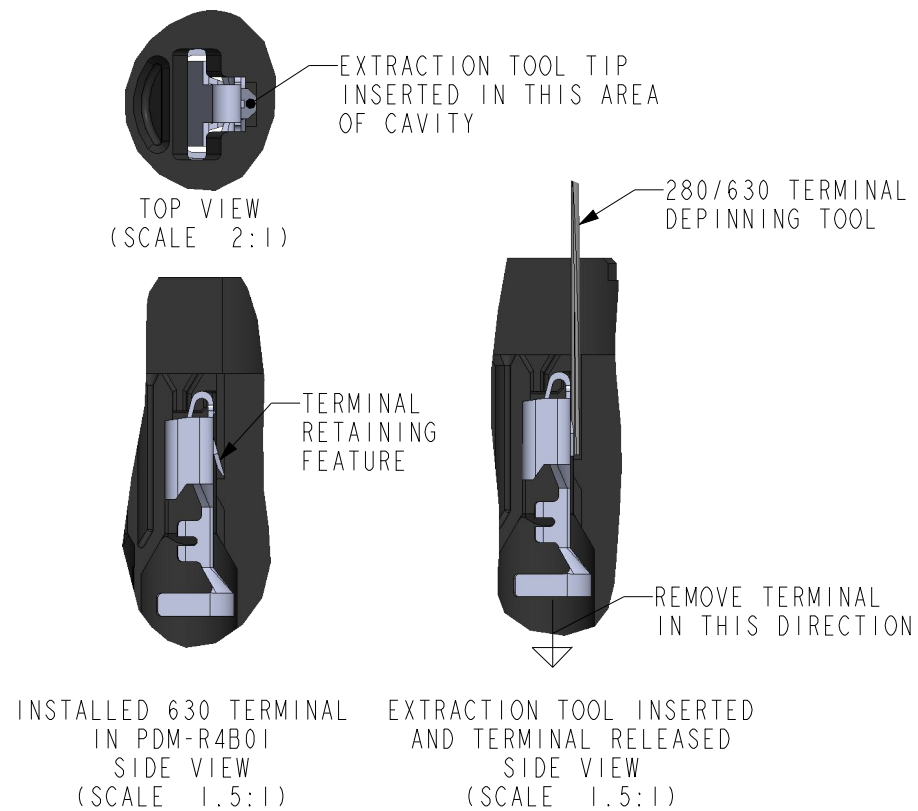
<b>GEP</b> POWER PRODUCTS		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:	FRH - MAXI ISO RELAY & MAXI FUSE SERIES (SALES)			
DESCRIPTION:	FRH - MAXI ISO RELAY AND MAXI FUSE SERIES DRAWING			
CUSTOMER:	STANDARD			
METRIC (MM)	REV 0	SHEET 7 OF 8	SCALE 1:1.25	SIZE B

# DEPINNING INSTRUCTIONS

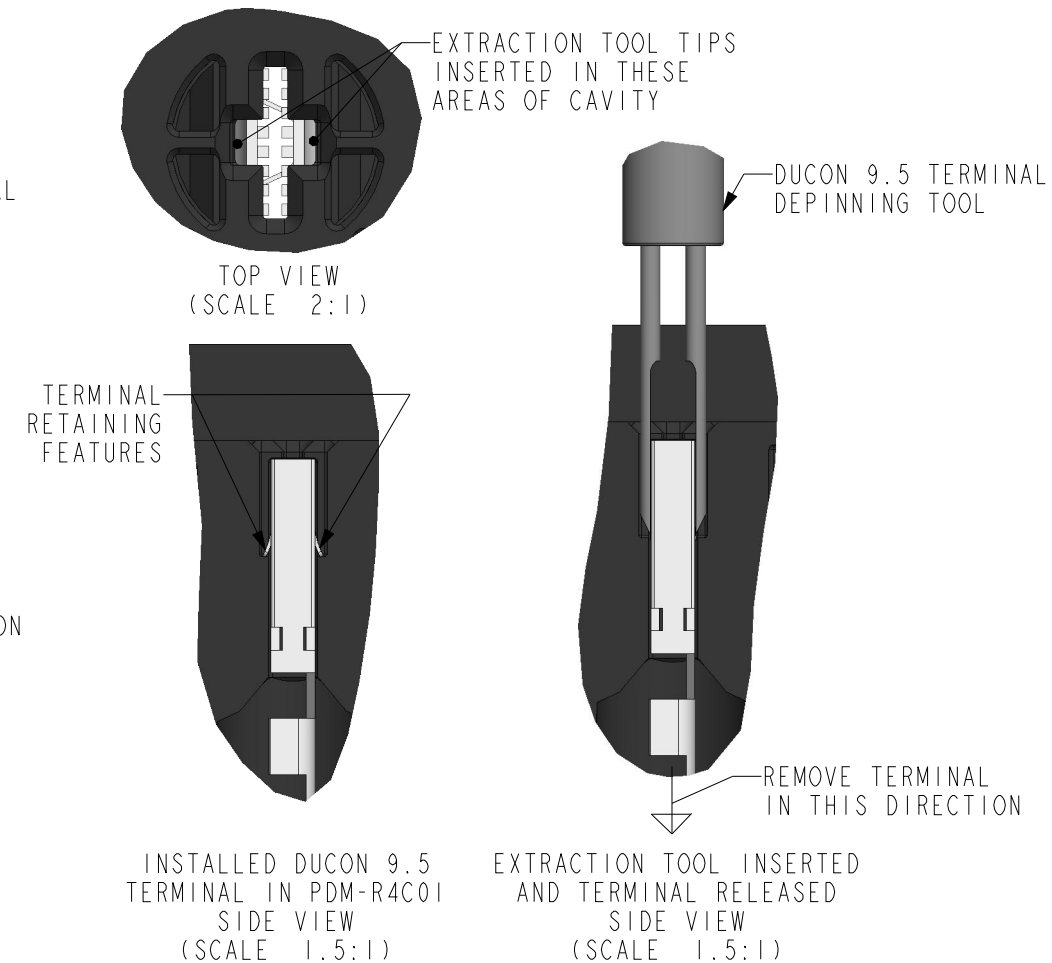
## LEAR MAK8 TERMINAL DEPINNING



## 630 TERMINAL DEPINNING



## DUCON 9.5 TERMINAL DEPINNING



		16830 Pheasant Drive Brookfield, WI 53005		
PART NO:	FRH - MAXI ISO RELAY & MAXI FUSE SERIES (SALES)			
DESCRIPTION:	FRH - MAXI ISO RELAY AND MAXI FUSE SERIES DRAWING			
CUSTOMER:	STANDARD			
METRIC (MM)	REV 0	SHEET 8 OF 8	SCALE 1:1	SIZE B