



June 09, 2021

Revision 0

A division of Troy Sheet Metal Works, Inc.
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Part No: GM-21TH-SGRF
Description: 2021 TAHOE FREE STANDING WEAPON MOUNT

Vehicle: Chevrolet Tahoe PPV
Model year: 2021



Tools Required

- T50 drive
- 5/32 allen
- 3/16 allen
- Utility knife
- 9/16 socket
- 15mm socket
- 7/16 wrench

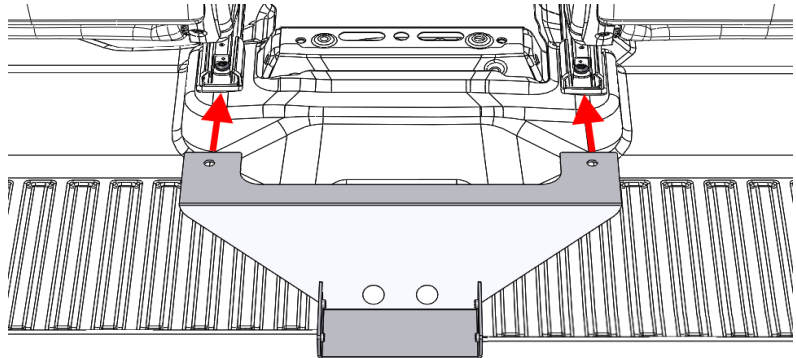
Troy Products recommends reading through all installation instructions prior to installation to check all necessary parts have been included.

IMPORTANT NOTES:

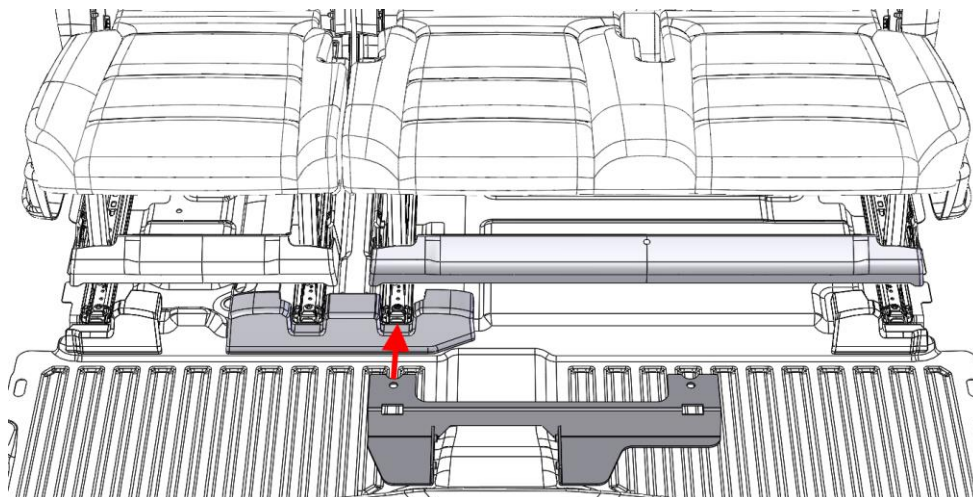
- Free standing weapon mount is designed to be installed without a front partition on 2021 PPV Chevrolet Tahoe.
- Free standing weapon is not to be installed with Troy products plastic seat mount.

Weapon mount Installation

- 1) Loosen front seats (4) rear bolts, rear center bolts need to be removed (use the T50 drive). Slide in front mount bracket and secure it with the two removed bolts, (do not tight bolts at this moment).

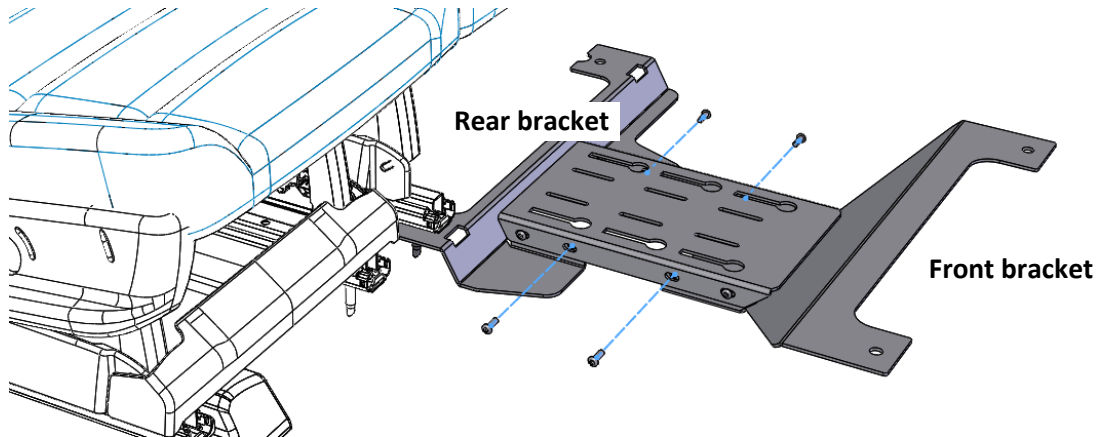


- 2) Remove second row seat plastic trims and slide back or tilt seat to reveal mounting bolt. Remove shown mounting bolt and slide in rear mount bracket, secure rear mount bracket with removed bolt (do not tight bolt at this moment).

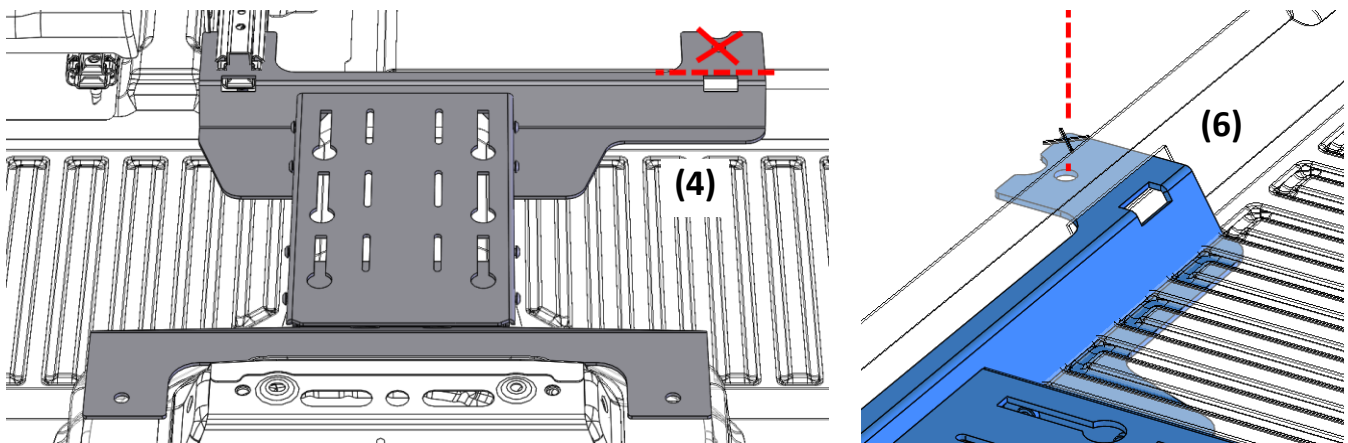


GM-21TH-SGRF

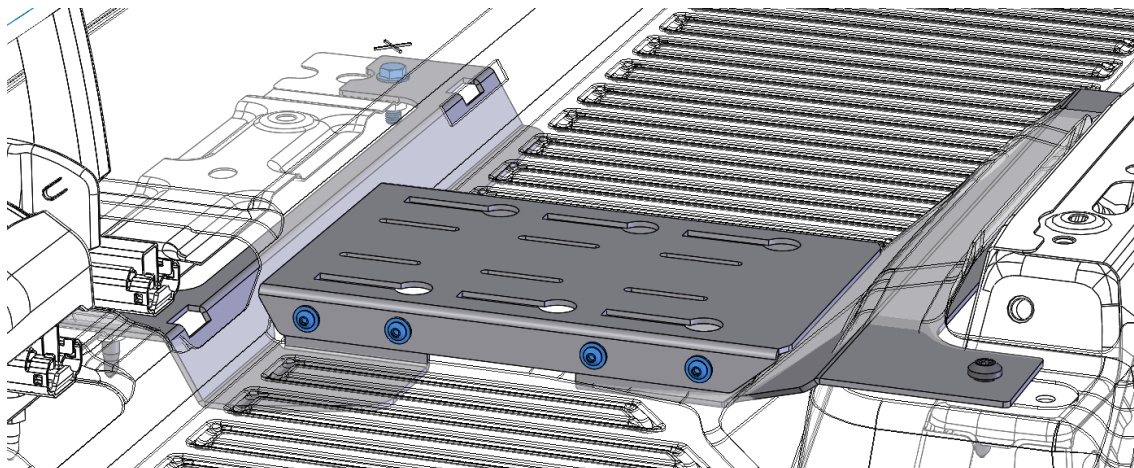
- 3) Place floor plate as shown on front and rear mounting brackets and temporarily secure it with four provided 1/4-20 X 3/4" screws, use 5/32 allen wrench. This will allow to get a reference on second mount location of rear mount bracket.



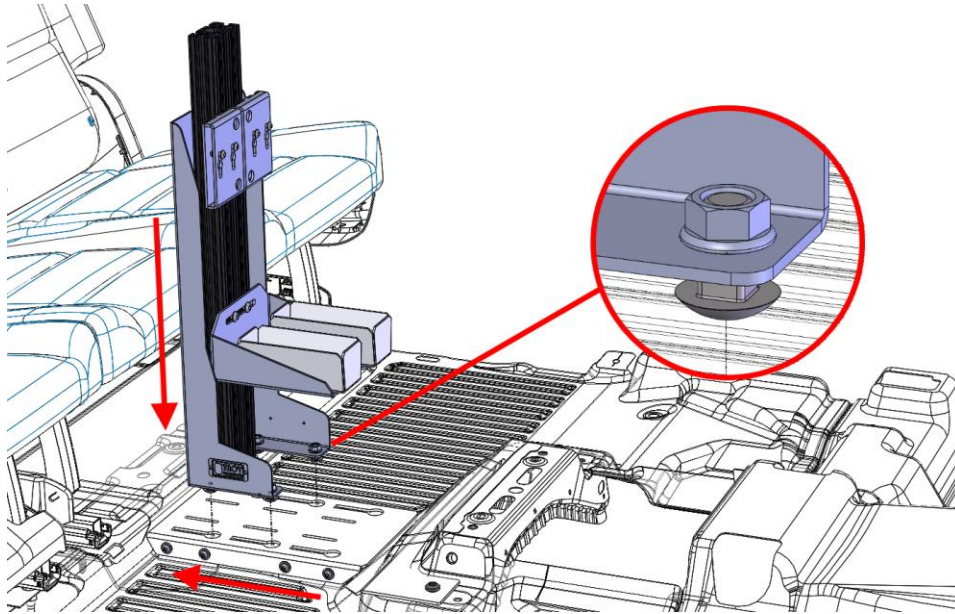
- 4) Mark the second mount location of rear mount bracket and slit line reference on carpet/vinyl floor.
5) Remove floor plate and rear mount bracket.
6) Make a cross cut for rear mount bracket second mount location and a slit cut to allow bracket leg to be inserted inside carpet/vinyl floor, use utility knife. Slit cut for rear mount bracket leg should look like picture.



- 7) Verify second mount location for rear bracket, there is a threaded mount point which might be covered with filling putty. If putty is present carefully remove it to expose the threads at mount point.
8) Set rear mount bracket back in place, use the OEM bolt at seat mounting point and use provided M10-1.5X30 bolt (use 15mm socket) for second mount point (do not tight bolts at this time).
9) Install floor plate in shown orientation using (8) provided 1/4-20 X 3/4" BH socket screws and washers (four per side).

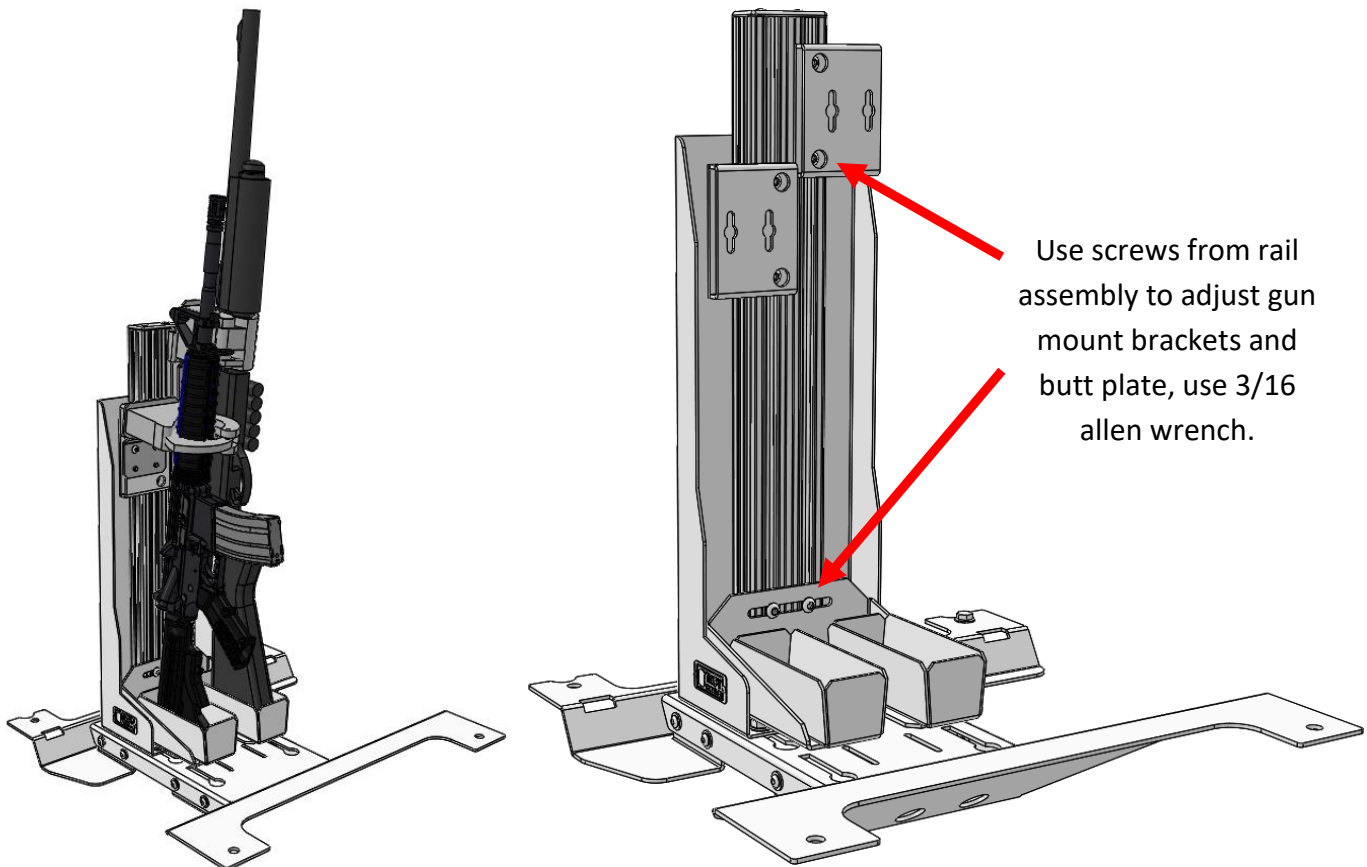


- 10) Go back and tightly secure bolts from front and rear mount brackets and screws from floor plate after.
- 11) Bring in rail assembly, loose and relocate butt plate to allow installation access to floor plate.
- 12) Set provided carriage bolts and flange hex nuts as shown on rail assembly base plate. Locate rail assembly on desired key holes of face plate, push back rail assembly to wanted position and tight down hex nuts using the 9/16 socket.

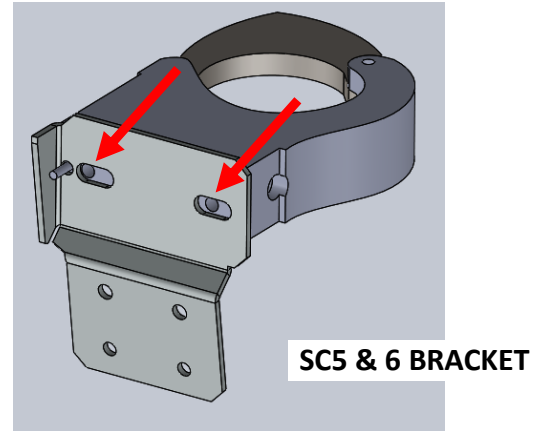
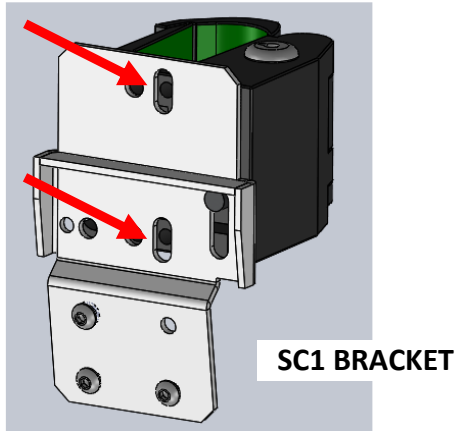


Gun locks installation and adjustments

- 13) After gun mount has been set in desired position, bring in the guns to mount and adjust the butt plate and gun mount brackets as needed (gun models and configuration shown for reference only)

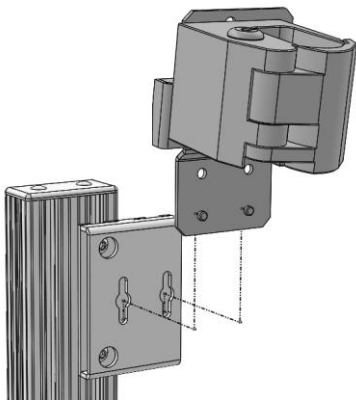


- 14) Mount gun locks to weapon brackets as shown using provided 5/16-18x0.625 screws (gun locks and gun lock brackets are sold separately).

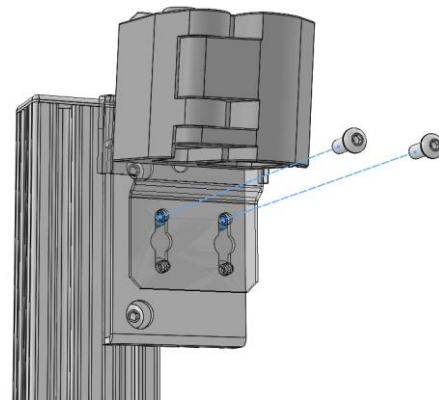


- 15) Insert weapon bracket into mounting plate. Each bracket has two screws welded in place. The heads of these screws are to be inserted into the slots on the bracket and moved downward to secure them.
- 16) Fasten each bracket to mount with two provided ¼-20 X 5/8" screws and nylon nuts as shown using a 7/16 wrench and a 5/32 allen wrench (insert 7/16 wrench on bracket side to hold nylon nuts in place).

(15)

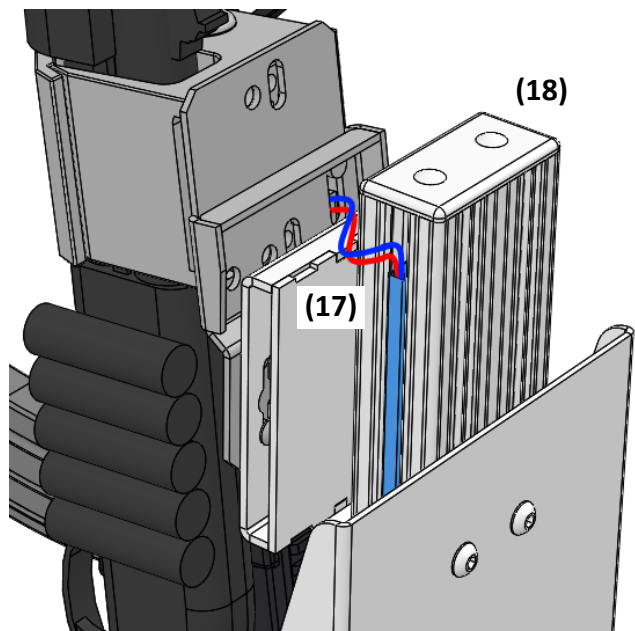


(16)

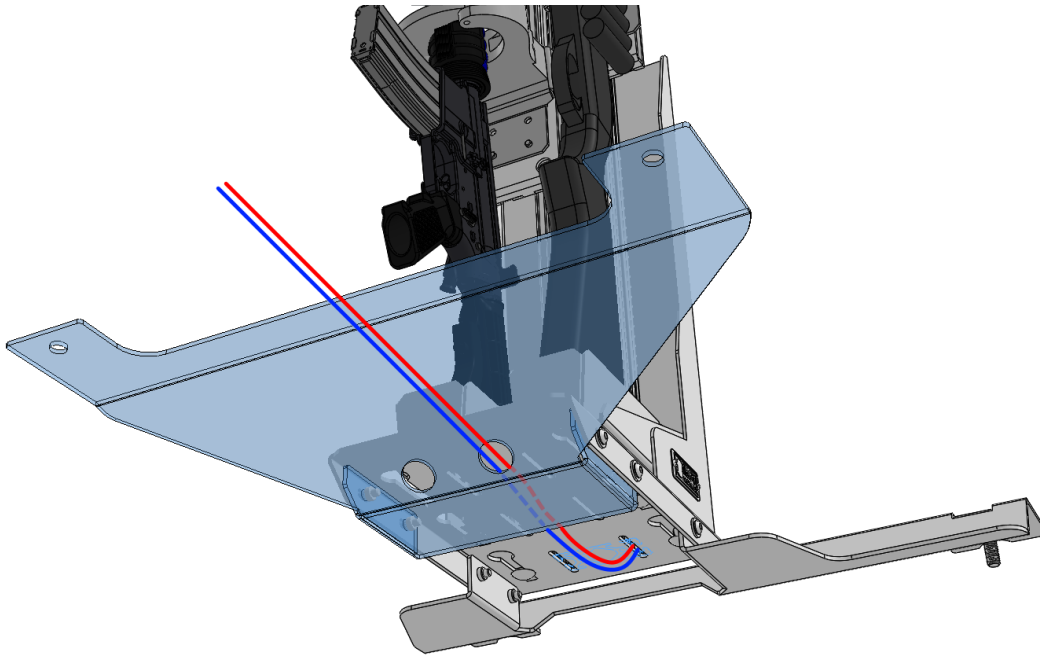


- 17) Route wires from gun locks to the inside of aluminum extrusion side as shown and cover them with provided wires extrusion cover, extrusion cover can be trimmed to needed length to cover wires depending on position of gun locks. (NOTE: lock wires must have extensions spliced onto them to add length to allow them to pass thru channel)

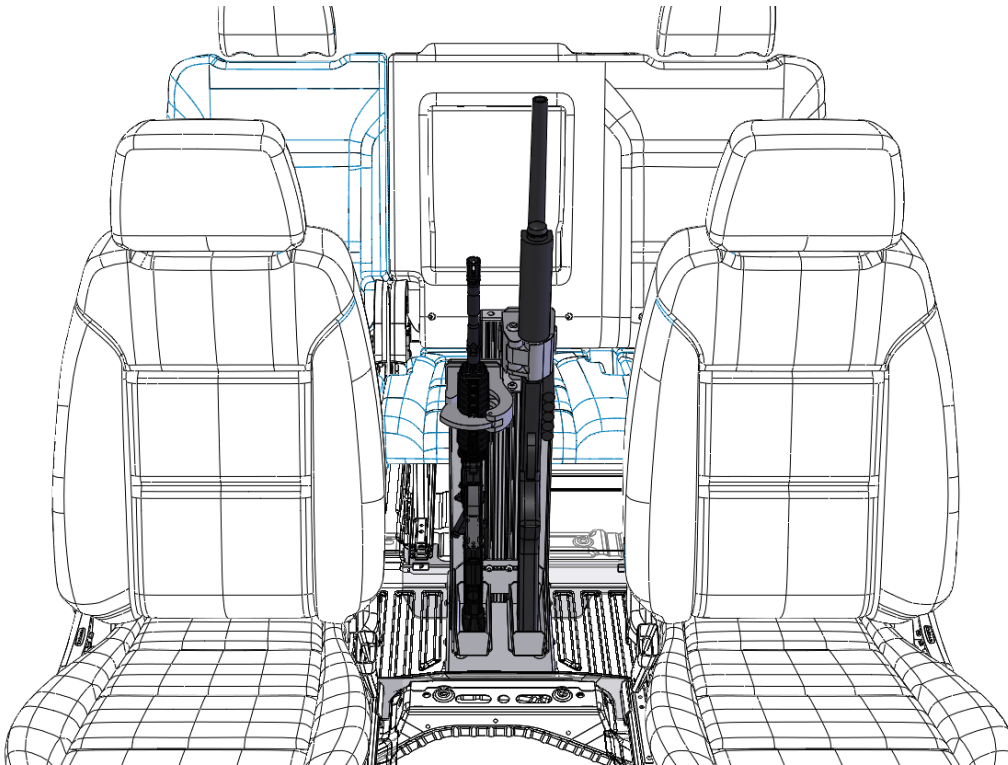
- 18) Insert provided extrusion end cap and plastic pins at top of extrusion bar.



- 19) Route lock wires through floor plate slots and under front mount bracket trough shown cutouts to needed controller/switch location if equipment. (Under side of weapon mount shown.)



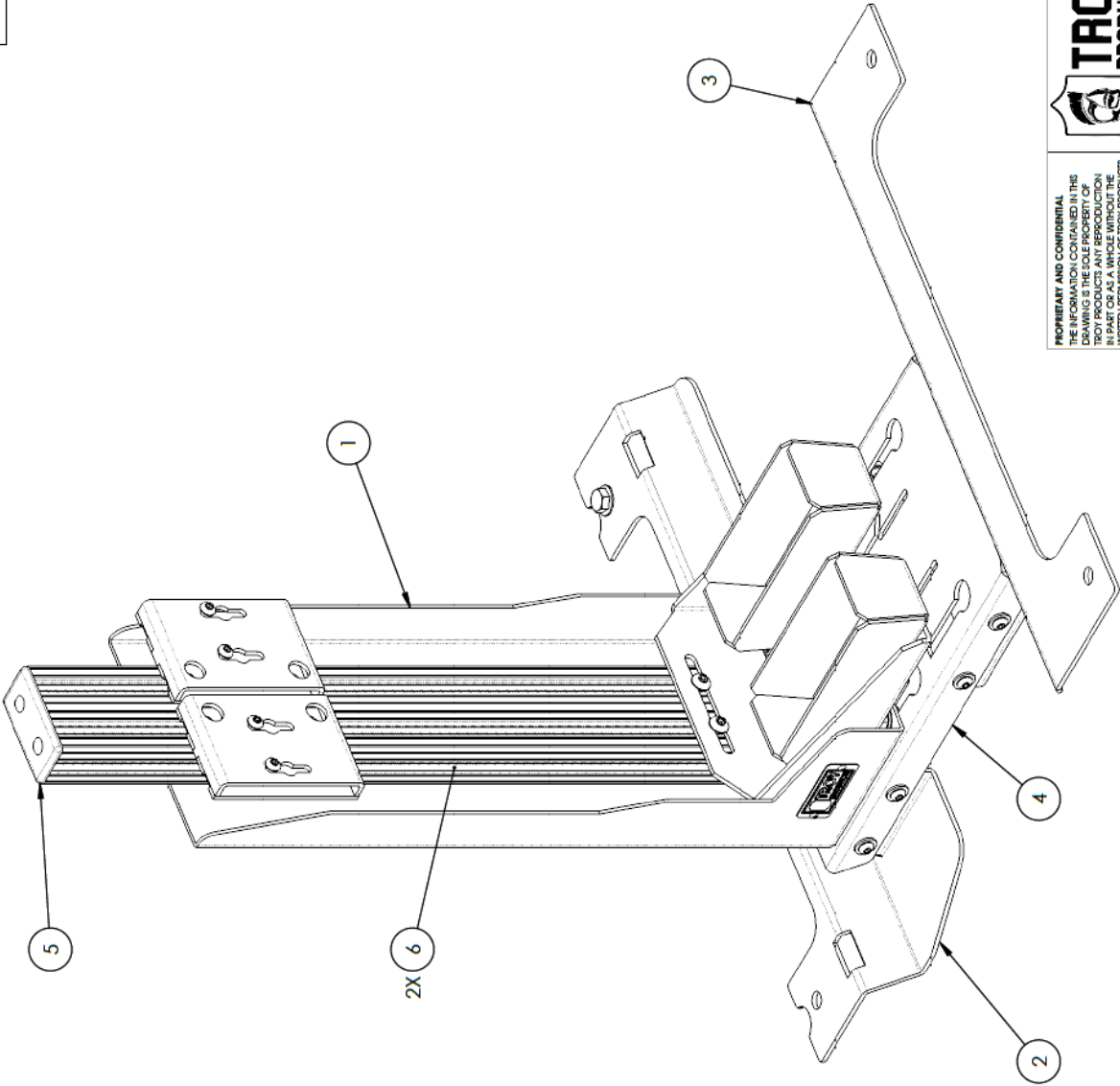
- 20) Repeat steps 15 – 19 on other gun side.



Your installation is now complete. If you have any questions or suggestions for adding additional instructions, please call **Customer Service at (800) 700-8769**.

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REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
			APPROVED



ITEM NO.	PART NUMBER	DESCRIPTION
1	GM-21TH-SGRF-#ra	RAIL ASSEMBLY (LOOSE)
2	GM-21TH-SGRF-#rm	REAR MOUNT BRACKET (LOOSE)
3	GM-21TH-SGRF-#fm	FRONT MOUNT BRACKET (LOOSE)
4	GM-21TH-SGRF-#fp	FLOOR PLATE (LOOSE)
5	1-HDW-8020-2045	T-SLOT EXTRUSION END CAP (LOOSE)
6	1-HDW-8020-2119B	T-SLOT EXTRUSION COVER (LOOSE)
7	GM-21TH-SGRF-#hwd	HARDWARE KIT

UNLESS OTHERWISE SPECIFIED:		NAME	DATE
DIMENSIONS ARE IN INCHES		NG	4/10/2021
TOLERANCES:		DESIGNED	NG
FRACTIONAL: ALL		ENG APPR.	
DECIMAL: 1/16"		MFG APPR.	
THREE PLACE DECIMAL: ±		G.A.	
INTERPRET GEOMETRIC TOLERANCING PER:		COMMENTS:	
MATERIAL:			
FINISH:			
DO NOT SCALE DRAWING			

2021 TAHOE FREE-STANDING MOUNT



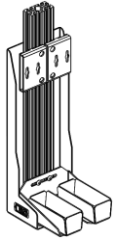
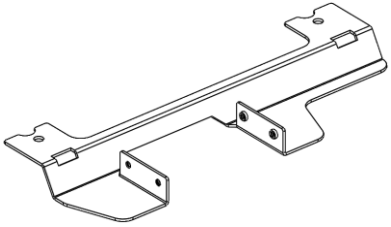
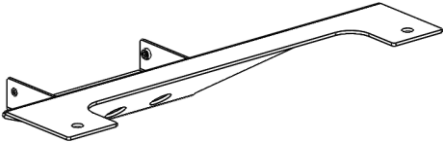
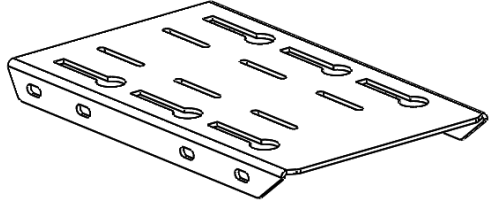
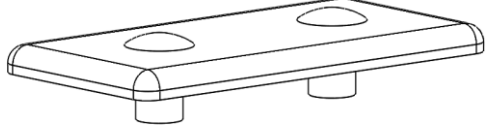
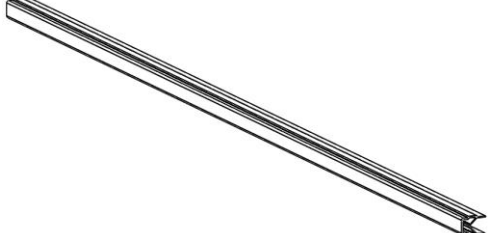
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SIZE	DWG. NO.	REV
B	GM-21TH-SGRF	A
SCALE: 1:12		SHEET 1 OF 1

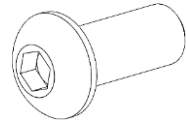
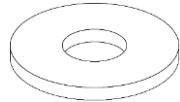
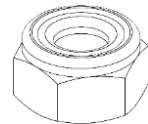
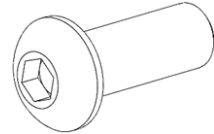
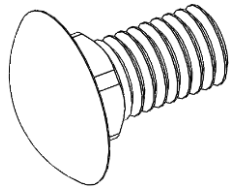
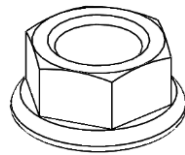
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GM-21TH-SGRF- BILL OF MATERIALS

Parts

Part #	Description	QTY.	Picture
GM-21TH-SGRF-#ra	RAIL ASSEMBLY	1	
GM-21TH-SGRF-#rm	REAR MOUNT BRACKET	1	
GM-21TH-SGRF-#fm	FRONT MOUNT BRACKET	1	
GM-21TH-SGRF-#flp	FLOOR PLATE	1	
1-HDW-8020-2045	T-SLOT EXTRUSION END CAP	1	
1-HDW-8020-2119B	T-SLOT EXTRUSION COVER	2	

Hardware

Part #	Description	QTY.	Picture
1-FST-06-60825	#1/4-20 x 5/8" BH socket screw	4	
1-FST-50-60800	BLACK FLAT WASHER, 1/4"	8	
1-FTS-35-31000	1/4"-20 Nylon Insert Locknut	4	
1-FST-06-60830	#1/4-20 x 3/4" BH socket screw	8	
1-FST-15-11220	CARRIAGE BOLT, ZI, 3/8-16 X 3/4	4	
1-FST-41-61200	3/8-16 flanged nut	4	
1-FST-09-M1030	M10-1.5 x 30mm Flange Hex Head Screw	1	