

**READ ALL INSTRUCTIONS COMPLETELY AND THOROUGHLY UNDERSTAND THEM BEFORE DOING ANYTHING.  
CALL CHASSISWORKS TECH SUPPORT (916) 388-0288 IF YOU NEED ASSISTANCE.**

# INSTALLATION GUIDE



## 5920-4HY Removable Harness Bar 1-5/8" x .134" Hardware



**Description:** Harness-bar eyebolts (2), harness guides (4), and unassembled clevis mounts (2) with mounting hardware. For direct attachment to B-pillar area. Contains hardware for one harness bar; tube sold separately.

## SANCTIONING BODY APPROVAL

**It is the owner's and builder's responsibility to check with the governing racing organization regarding the legality of removable back braces and swingout door bars.**

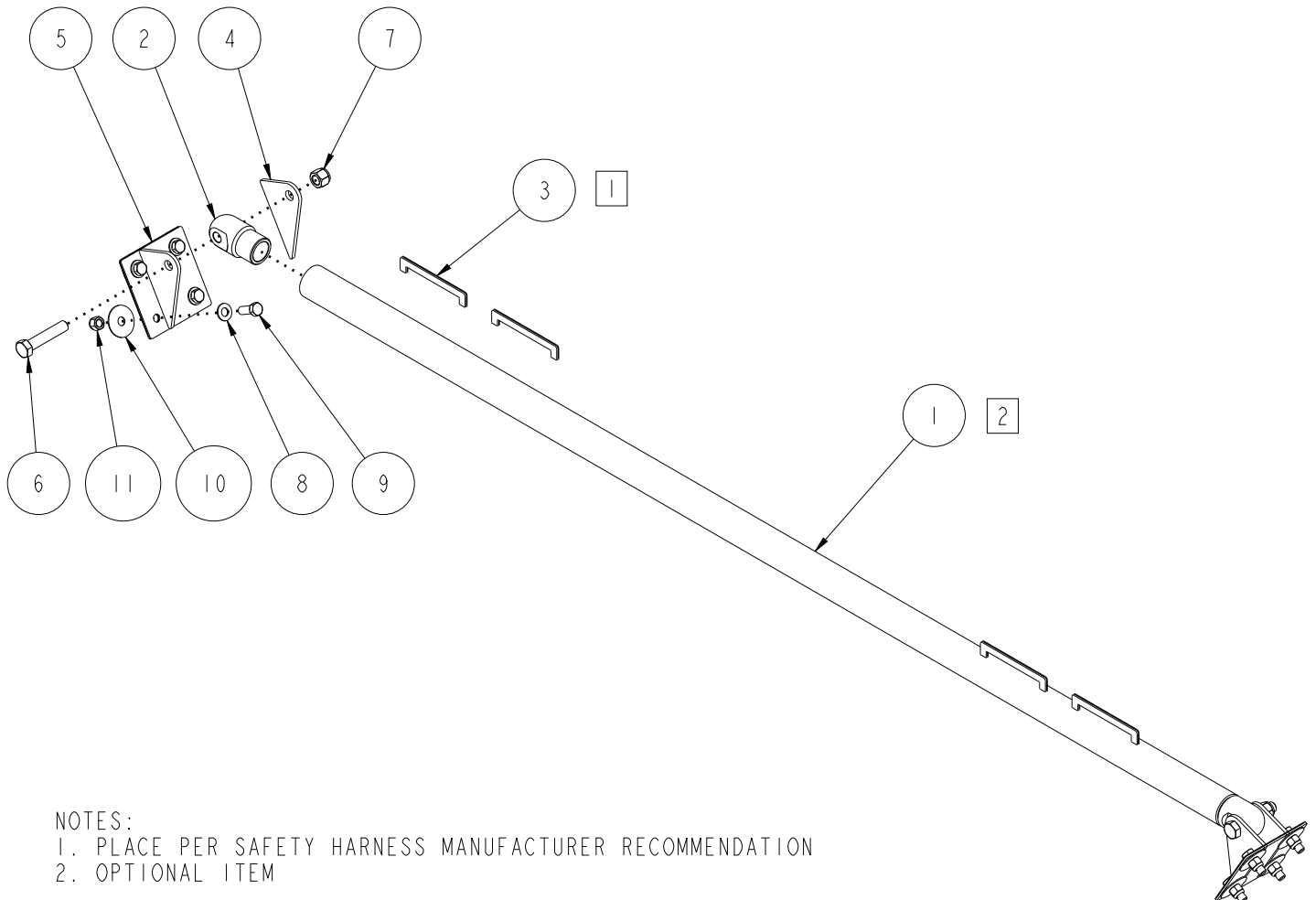
### WARRANTY NOTICE:

There are NO WARRANTIES, either expressed or implied. Neither the seller nor manufacturer will be liable for any loss, damage or injury, direct or indirect, arising from the use or inability to determine the appropriate use of any products. Before any attempt at installation, all drawings and/or instruction sheets should be completely reviewed to determine the suitability of the product for its intended use. In this connection, the user assumes all responsibility and risk. We reserve the right to change specification without notice. Further, Chris Alston's Chassisworks, Inc., makes **NO GUARANTEE** in reference to any specific class legality of any component. **ALL PRODUCTS ARE INTENDED FOR RACING AND OFF-ROAD USE AND MAY NOT BE LEGALLY USED ON THE HIGHWAY.** The products offered are sold 'as is'. They are true race-car components and in all cases require some fabrication skill to install. **NO PRODUCT OR SERVICE IS DESIGNED OR INTENDED TO PREVENT INJURY OR DEATH.**

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ITEM	QTY	PART NO.	DESCRIPTION
1	1	E26.134-060.000	STEEL TUBE $\varnothing$ 1 5/8 x .134 ERW x 60.000 LONG
2	2	1142	WELD EYE $\varnothing$ 1.355 ID x 1.261 WIDE x 1/2 HOLE
3	4	210145	TAB, HARNESS, ANTI-SLIDE
4	4	2154	CROSSMEMBER FRAME TAB 1/2 HOLE
5	2	210146	MOUNT PLATE, 4 x 4
6	2	3100-050C2.50Y	HEX BOLT, 1/2-13 x 2 1/2, GRADE 8, YELLOW ZINC
7	2	3101-050-13C	LOCKNUT 1/2-13, GRADE 5, NYLON INSERT, CLEAR ZINC
8	8	3157-038S-C	WASHER, 3/8 SAE, ZINC PLATED, 13/32 ID x 13/16 OD x 1/16 THICK,
9	8	3100-038C1.00Y	HEX BOLT, 3/8-16 x 1, GRADE 8, YELLOW ZINC
10	8	3157-038F-C	FENDER WASHER, 3/8 x 1 1/2, ZINC PLATED
11	8	3101-038-16C	LOCKNUT 3/8-16, GRADE 5, NYLON INSERT, CLEAR ZINC



NOTES:

1. PLACE PER SAFETY HARNESS MANUFACTURER RECOMMENDATION
2. OPTIONAL ITEM

DESCRIPTION		<b>HARNESS BAR, DUAL CLEVIS, <math>\varnothing</math> 1 5/8</b>	
<b>Chris Alston's CHASSISWORKS INC.</b> 8661 YOUNGER CREEK DRIVE SACRAMENTO, CA 95828 (916) 388-0288 FAX 388-0295		PART NO.	<b>5920-4HY</b>
		8/20/15	DWG: 7951-59204HY

# PARTS LIST

## 5920-4HY - Removable Harness Bar Kit

Qty	Part Number	Description
2	1142	Weld-in eyebolt for 1-5/8" x .134" tubing
4	210145	Harness guide loop
2	210146	Mount plate, 4" square
4	2154	Mount tab
8	3100-038C1.00Y	Bolt 3/8-16 x 1", hex head Grade 8
2	3100-050C2.50Y	Bolt 1/2-13 x 2-1/2", hex head Grade 8
8	3101-038-16C	Locknut 3/8-16, nylon insert
2	3101-050-13C	Locknut 1/2-13, nylon insert
8	3157-038F-C	Washer 3/8", fender
8	3157-038S-C	Washer 3/8", flat SAE
OPTION	E26.134-060.000	Tube 1-5/8" x .134" wall x 60" long

## INSTRUCTIONS

The eyebolts in this kit are designed to slip inside a piece of tubing that is 1-5/8" OD with a .134" wall thickness.

1. Find a suitable area along the B-pillar to install the 4" x 4" mounting plates. If the area is not large enough to allow a simple bolt-on installation, some fabrication or modification of the plate and tabs may be necessary. Possible solutions may include welding a plate to the vehicle to which the mounting bracket can be bolted, or bending the plate to conform to the OEM sheet metal. Bending the plate may also require trimming the mount tabs to match the curved plate. Bolt the unwelded plates to each side of the car.
2. Weld an eyebolt into one end of the harness bar tube. After it has cooled, bolt two tabs to the eyebolt.
3. Position the harness bar assembly level and square inside the vehicle. It may be necessary to rough cut the tube to a length just short enough fit between the B-pillars. Make sure the tabs are centered on the plate. Securely tack weld the tabs to the plate before fitting the opposite end hardware.
4. Bolt the remaining tabs to the second eyebolt, then position against the opposite plate to determine the correct tube cut length. Cut the tube so it is approximately 1/8" too long. This creates a tight fit, which is helpful during welding. Insert the eyebolt into the tube and align the tabs with the second plate. Securely tack weld the tabs to the plate with the bar installed. Both sets of tabs and mount plates can now be fully welded into brackets.



5. Cut the bar to the exact length and then remove to drill two 3/8" holes through the tube to be used for welding rosettes. Reinstall the harness bar with the bolts in each eyebolt. Weld up the 3/8" holes first. This prevents the eyebolt from pulling in when welding and becoming too short. Next, weld completely around the eyebolt while it is installed.
6. Seats must be installed to determine correct placement of the harness guide loops. Weld all four loops and allow to cool before proceeding.
7. If the bolt binds between the eyebolt and bracket, use a small rat tail file to elongate the hole in the appropriate direction. DO NOT drill out the hole to a larger size.
8. In this example, slots for the tabs were cut through the interior panel to better hide the mounting bracket.

