

INSTALLATION GUIDE



6261

AVENGER X-STYLE TRACK LOCATER ALSO FITS ELIMINATOR II 4-LINK

Description: X-style track locator for use with Avenger Scalloped 4-Link or Eliminator II 4-Link
Includes: Billet aluminum mounting clevises, 4130 tube and tube adapters, swivel clevis mount, 4130 rod ends, and mounting hardware

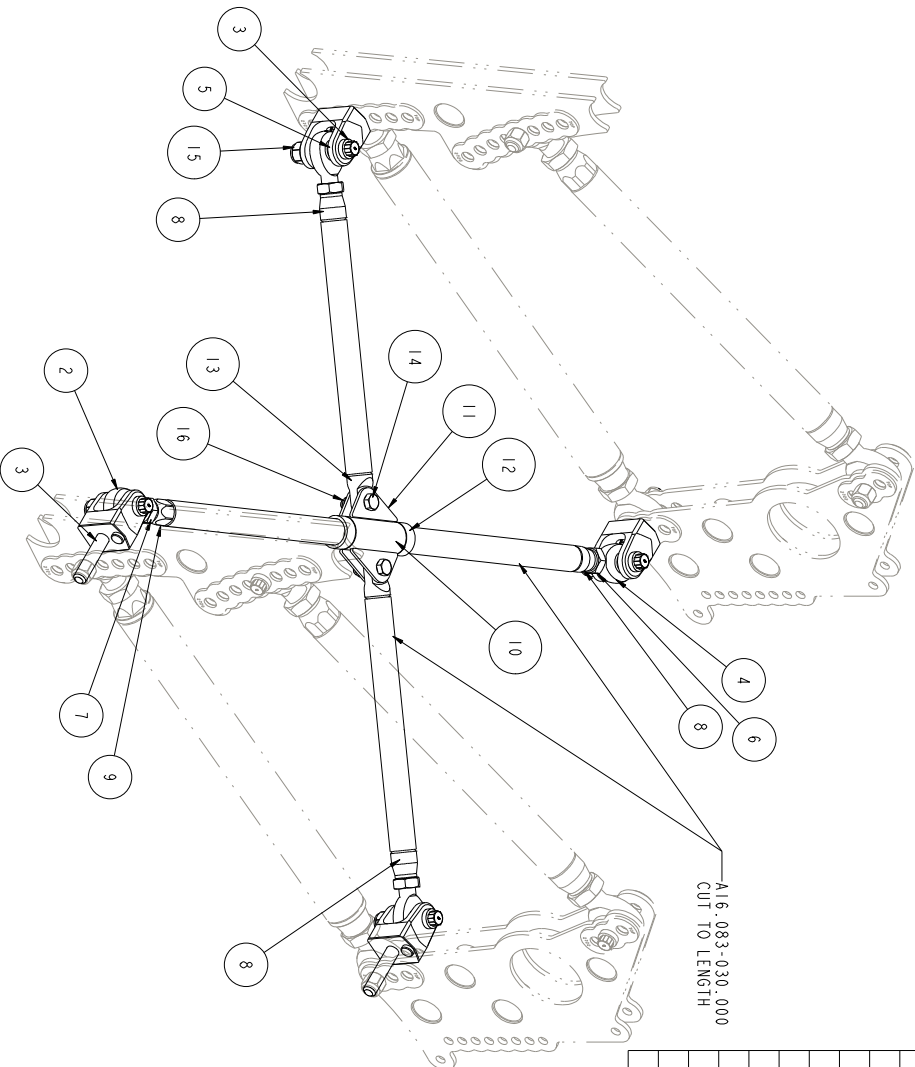


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LONGER BOLT FOR MOUNTING CLEVIS
USE NUTS FROM 4-LINK HARDWARE

ITEM QTY	PART NO.	DESCRIPTION
1 4	1485	BILLET CLEVIS, TRACK LOCATOR
2 1	3137-063X050-L	ROD END, 5/8-18 LEFT x 1/2 BORE, 4130, TEFLON, RSMXL-8T
3 8	3130-050F2.50B	1/2 POINT CAP SCREW, 1/2-20 x 2 1/4, GRADE 8, BLACK OXIDE
4 3	3137-063X050-R	ROD END, 5/8-18 RIGHT x 1/2 BORE, 4130, TEFLON, RSMX-8T
5 8	1000	MISALIGNMENT BUSHING Ø1/2 BORE x .250
6 3	3102-063-18RC	JAM NUT, 5/8-18 RIGHT, CLEAR ZINC
7 1	3102-063-18LY	JAM NUT, 5/8-18 LEFT, YELLOW ZINC
8 3	1136	TUBE ADAPTER .830 x 5/8-18 RIGHT
9 1	1506	TUBE ADAPTER .830 x 5/8-18 LEFT
10 1	1007	SLEEVE, Ø1 1/4 x .120 4120 x 3.0
11 4	2732	TAB, X-LOCATOR Ø3/8 HOLE
12 2	A20.120-000.500	CUT TUBE, .500 x Ø1 1/4 x .120 WALL 4130
13 2	1126-0.830	WELD EYE .830 TUBE ID x .375 WIDE x 3/8 HOLE
14 2	3100-038F1.25Y	HEX BOLT, 3/8-24 x 1 1/4, GRADE 8, YELLOW ZINC
15 4	3101-050-20C	LOCKNUT, 1/2-20, GRADE 8, NYLON INSERT, CLEAR ZINC
16 2	3101-038-24C	LOCKNUT, 3/8-24, GRADE 8, NYLON INSERT, CLEAR ZINC
17 2	A16-.083-.030.000	CUT TUBE, 30 x Ø1 x .083 WALL 4130

DESCRIPTION

**TRACK LOCATOR,
AVENGER X-STYLE**

PART NO. **6261**

2/21/08 DMG- 916261

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PARTS LIST

6261 - Avenger X-Style Track Locator

Item	Qty	Part Number	Description
1	4	1485	Billet track-locator clevis 1/2" bolt with anti-rotation pin
2	2	A16.083-030.000	Tube 1" OD x .083" wall x 30" long, 4130
3	1	906261.12	Hardware Bag 1 of 2
4	1	906261.22	Hardware Bag 2 of 2

906261.12 - Hardware Bag for Avenger X-Style Track Locator

Item	Qty	Part Number	Description
5	8	1000	Misalignment bushing 1/2" bore x .250" long
6	4	3101-050-20C	Locknut 1/2-20 nylon insert
7	1	3102-063-18LY	Jam nut 5/8-18 LH, yellow zinc
8	3	3102-063-18RC	Jam nut 5/8-18 RH, clear zinc
9	4	3130-050F2.25B	Bolt 12-point head 1/2-20 x 2.25" long
10	1	3137-063X050-L	Rod end 5/8-18 LH x 1/2" bore
11	3	3137-063X050-R	Rod end 5/8-18 RH x 1/2" bore

906261.12 - Hardware Bag for Avenger X-Style Track Locator

Item	Qty	Part Number	Description
12	1	1007	Sleeve 1-1/4-.120 4130 3" long
13	2	1126-0.830	Weld eye .830 x 3/8 hole x .25 tab
14	3	1136	Tube adapter .830 x 5/8-18 RT
15	1	1506	Tube adapter .830 x 5/8-18 left
16	4	2732	Tab X-locator center support
17	2	3100-038F1.25Y	Bolt 3/8-24 x 1-1/4 long hex cap screw
18	2	3101-038-24C	Locknut 3/8-24 nylon insert
19	4	3122-050F2.50B	Bolt 12-point head 1/2-20 x 2.50 long
20	2	A20.120-000.500	Tube 1-1/4 -.120 4130 x .500 long

INSTRUCTIONS

The X-style locator installs onto the Avenger or Eliminator II 4-link suspensions by attaching at all four points where the lower link bars attach to the chassis brackets and rearend-housing brackets. The one piece straight tube runs diagonally front to rear. The locator rod can be attached in either direction. Many chassis designs have rear frame struts that are very close to the front 4-link bracket. On these chassis, there usually is not enough room for the locator clevis so you will need to use our Wishbone Locator Kit #6280 or move the chassis tube inward. All Chassisworks Eliminator II and Avenger chassis need to use a wishbone.

1. The 4-link suspension must be completely installed with the rearend at ride height and centered in the chassis.
2. Install one billet locator clevis at each point where the lower 4-link bars attach to the chassis and rearend-housing brackets. The alignment pin goes in the hole above or below the hole being used. Remove the bolt that holds the link-bar rod end between the brackets. Insert one of the 1/2-20 x 2-1/2" 12-point bolts into the counter bore in each billet locator clevis. Re-install the bolts and clevis into all 4 mounting points and secure with a 1/2-20 locknut.

3. The rearend must be centered between the rear frame rails before continuing. Thread one 5/8-18 left-hand jam nut onto one of the left-hand-threaded rod ends 3/4 of an inch, and then thread the left-hand tube adapter, with the hex machined on it, onto the rod end. Using the 1/2-20 x 2-1/4" 12-point bolts, locknuts and two misalignment bushings, install the rod ends between the ears of the billet locater clevis on the driver-side chassis bracket. One misalignment bushing goes on each side of the rod-end ball.
4. Repeat the procedure above using a right-hand rod end, tube adapter, and jam nut. This will go into the passenger side rear end housing bracket billet locater clevis.
5. Slide one end of the 1" x .083 x 30" long tube on to either tube adapter. Hold the 1" tube in place under the other tube adapter and mark its length to reach the shoulder of the tube adapter. Cut the tube to the marker length.
6. Next, slide one of the 2732 X-locater tabs over a 3/8-24 x 1-1/4" bolt followed by one of the weld eyes, and a second tab. Secure with a plain 3/8-24 nut (not included). Do not use the locknuts provided at this time. Repeat this for the second pair of weld eyes, tabs, bolts, and nuts.
7. Position the assembled tabs one on each side of the 1-1/4 x .120 x 3" tube so they are centered on the tube. Make sure the long legs of the tabs are opposite of each other. Check to be sure the weld eyes are parallel to each other and the tack weld the tabs to the center tube in three places. Clamping this to a flat plate will keep the weld eyes parallel. Once the weld eyes are checked again you can weld the tabs to the tube the full length of the tab. Use a TIG welder for this since all the parts are 4130 chromemoly. Let this assemble completely cool before proceeding.
8. Slide one of the 1-1/4 x .120" x .50" tubes over the long 1" tube that was cut to length earlier. Next, slide the assembly that was just welded on followed by a second 1/2" long tube.
9. Center the three pieces from step 8 on the long 1" tube. Tack weld one of the 1/2"-wide tubes to the long 1" tube in three places around the circumference. Position the second 1/2" tube against the tube with the tabs welded to it. There should be a very small amount of clearance between the 1/2" tube and the center tube so it can rotate freely, but it should not move between the 1/2" tubes. Tack weld the second 1/2" tube in three places around the circumference. You can now weld the tubes at the three tack welds with 3/8" long welds, do not weld the tube continuously around the OD.
10. Drill two 1/8" rosettes to weld the ends on the 1" tube where the tube adapters will go. Remove the tube adapters from the rod ends in the billet locater clevises. Weld the tube adapters into the tube on the ends around the circumference and the rosettes.
11. After the welded assembly is cool, chase the threads on the tube adapters. Remove the rod ends from the billet locater clevises. Apply a small amount of anti-seize to the rod end threads and install them into the center locater tube. Reinstall this into the 4-link and make sure the rear end housing is centered in the chassis before going to the next step.
12. Thread the remaining jam nuts onto the rod ends and then the tube adapters. Install them into the remaining two billet locater clevises.
13. Slide one end of the 1" x .083 x 30" long tube on to either tube adapter. Hold the 1" tube in place under the weld eye on the center tube assembly and mark its length to reach the shoulder of the weld eye tube adapter. Cut the tube to the marker length. Repeat this for the other side using the remaining piece of 1" tubing you just cut off.
14. Remove the rod ends and tube adapters from the billet locater clevises and the weld eyes from the center link assembly. Again, drill two 1/8" rosettes to weld the ends of the 1" tube where the tube adapters and weld eyes will go. Weld the tube adapters and weld eyes into the end of the tubes around the circumference and the rosettes.
15. After they are cool re-install the short tubes. Use the lock nuts and torque to 35 lb-ft.
16. To adjust the rear end for center, loosen the jam nuts and rotate the center locater tube. You will also need to loosen the 3/8" bolts the ends of the short tubes. Tighten all bolts and move the rear end through it travel to make sure nothing binds.