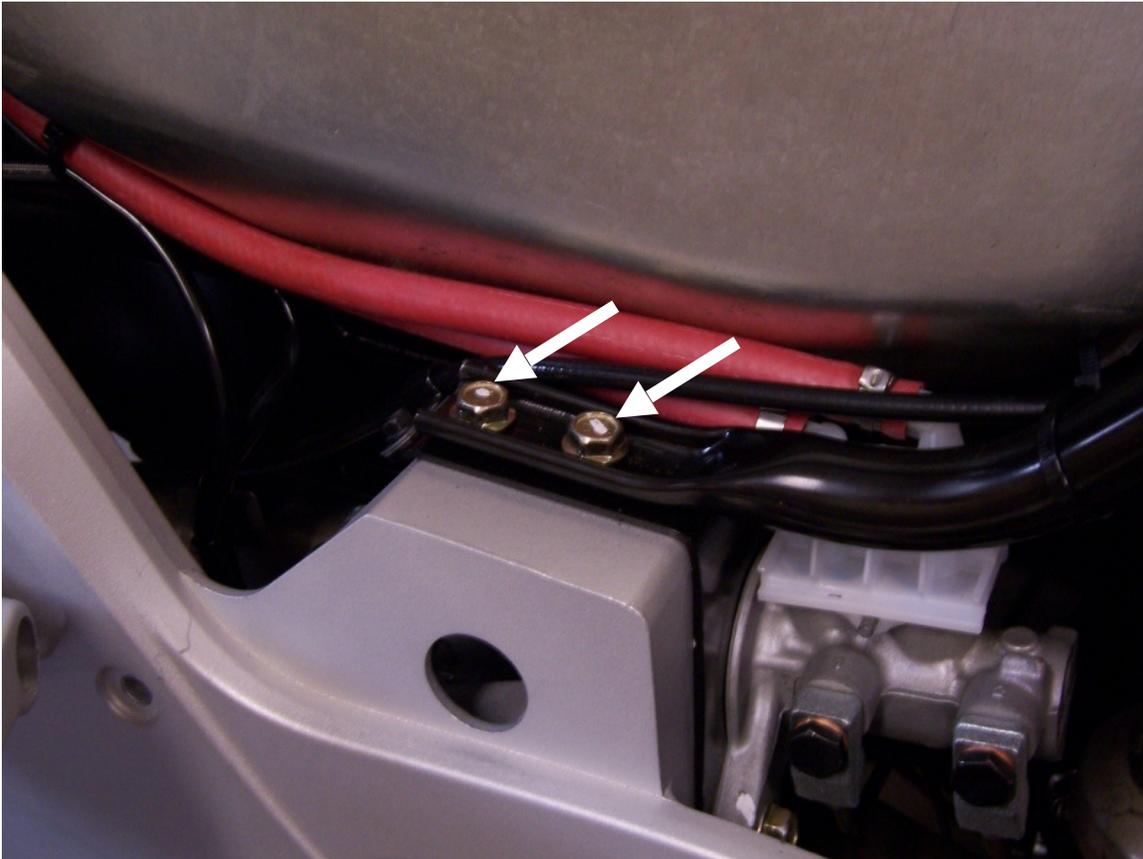


# INSTALLATION INSTRUCTIONS

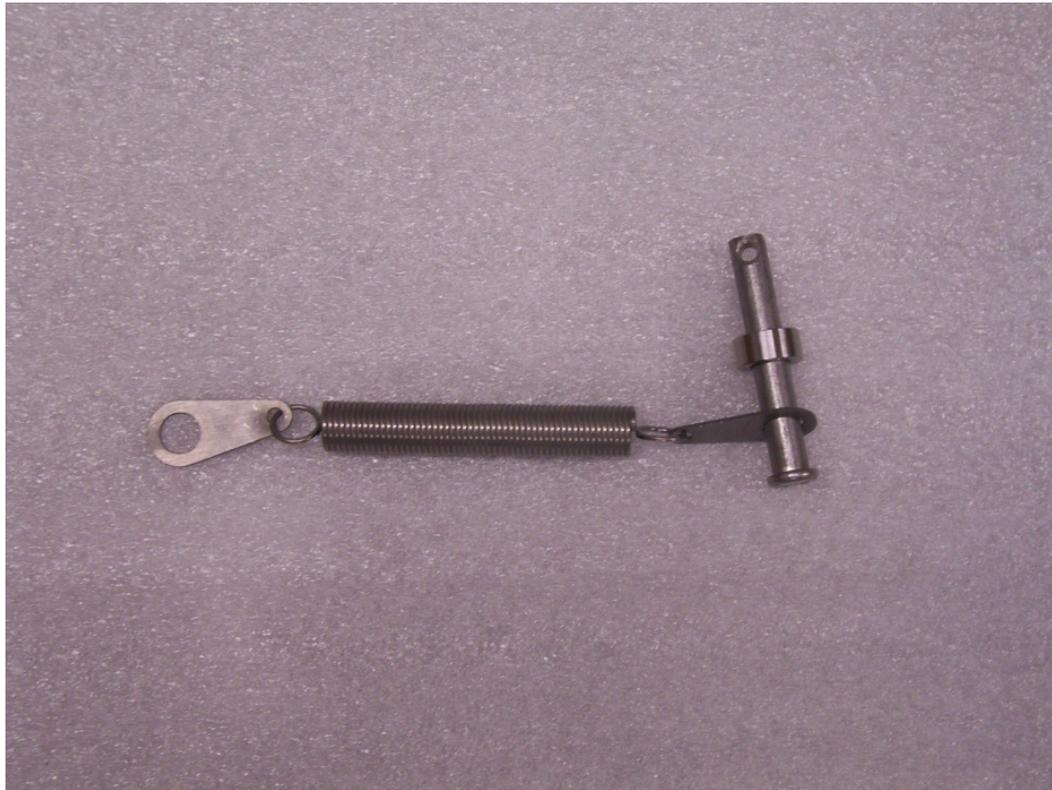
## ISCI SPYDER HANDBRAKE SPY-HB-RT

Great care has gone into providing complete and thorough installation instructions. Use the torque values listed on the Assembly Drawing when tightening all fasteners. Use the supplied Loctite on all fasteners that do not have any mechanical locking device. See terms and conditions located at the end of this document.

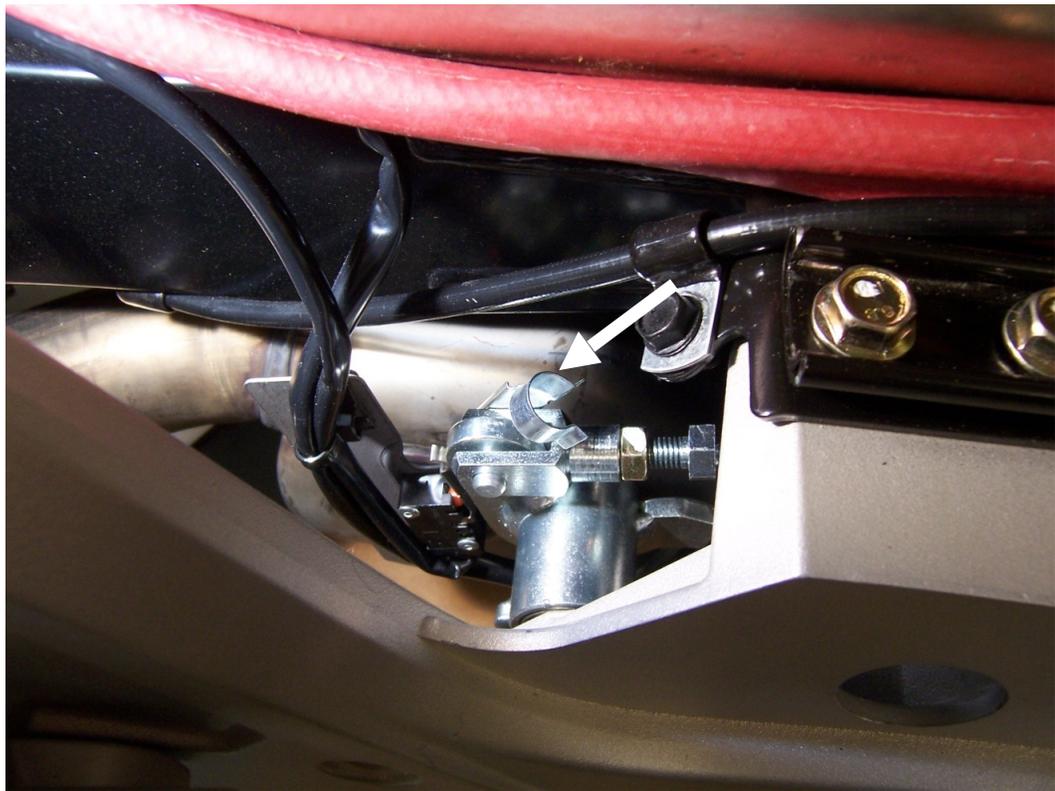
1. Ensure that all parts and the proper quantities of parts that are listed in the Parts List on the Assembly Drawing are in the package. Some of these items are pre-assembled.
2. Refer to Spyder Shop Manual and remove all side body panels, Middle, Upper and Lower from the right side and the Central Panel.
3. Remove two Lateral Support Screws from the top of the Driver's Footrest Support.



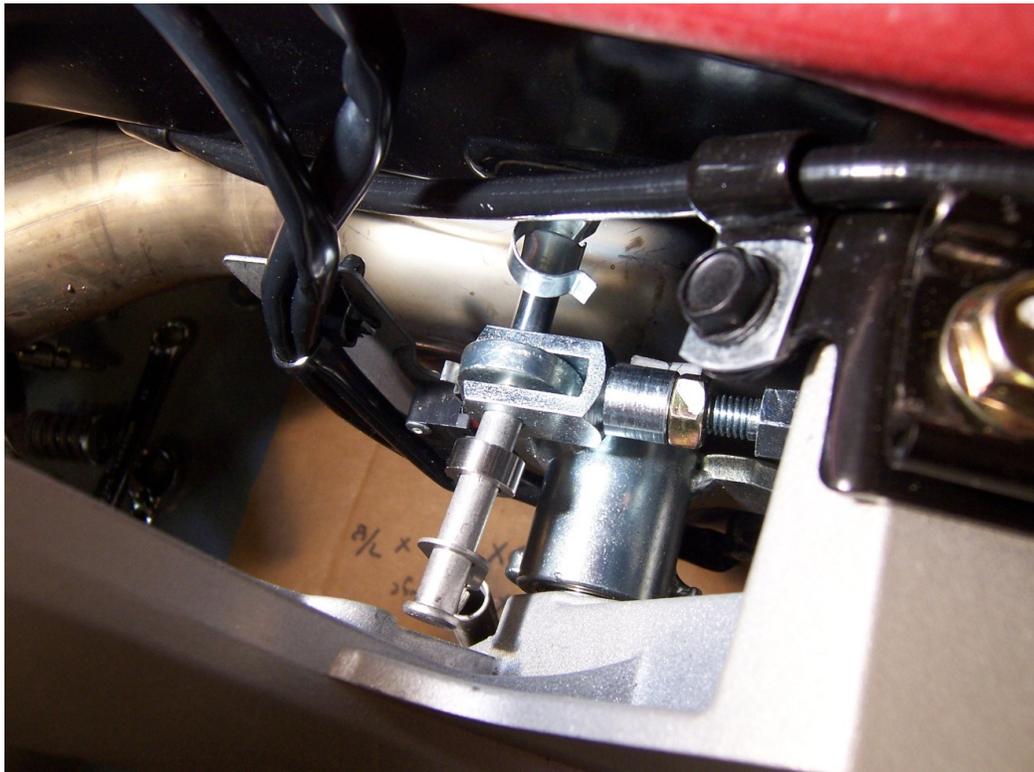
4. Assemble Clevis Pin, ¼" Spacer, Link Washers and Spring as shown below.



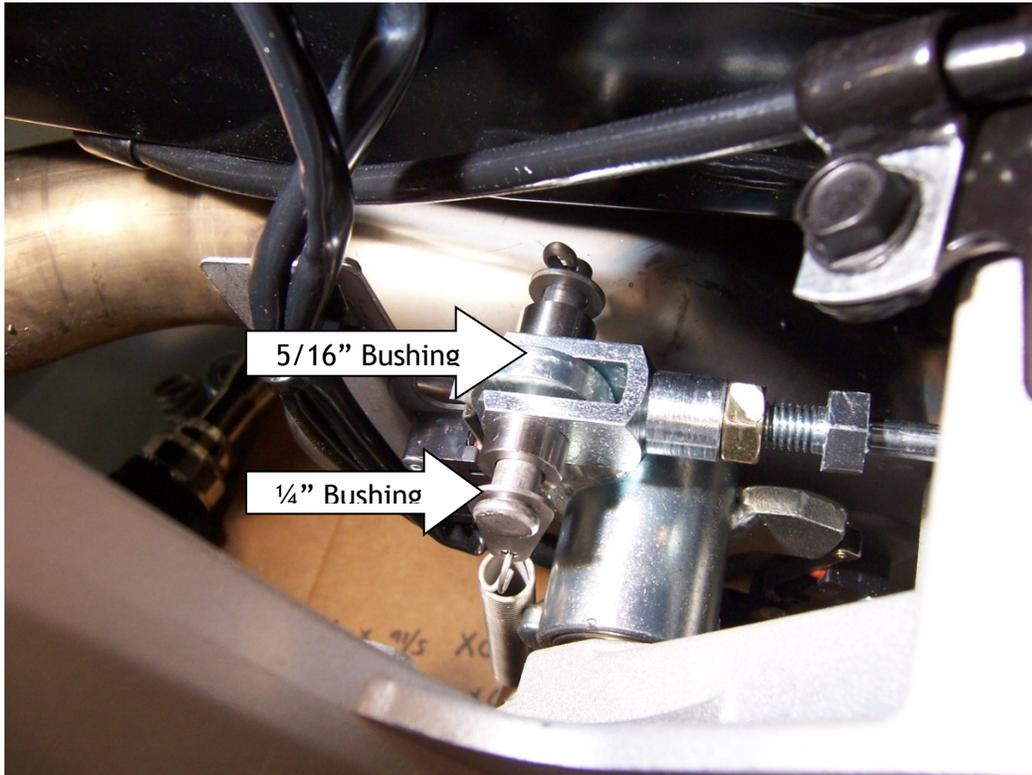
5. Unhook the Hook Lock from the Clevis on the Master Cylinder Rod. **DO NOT REMOVE THE PIN FROM THE CLEVIS AT THIS TIME!!**



6. Use the Clevis Pin and Spring Assembly from Step #4 to start pushing the OEM Clevis Pin out.



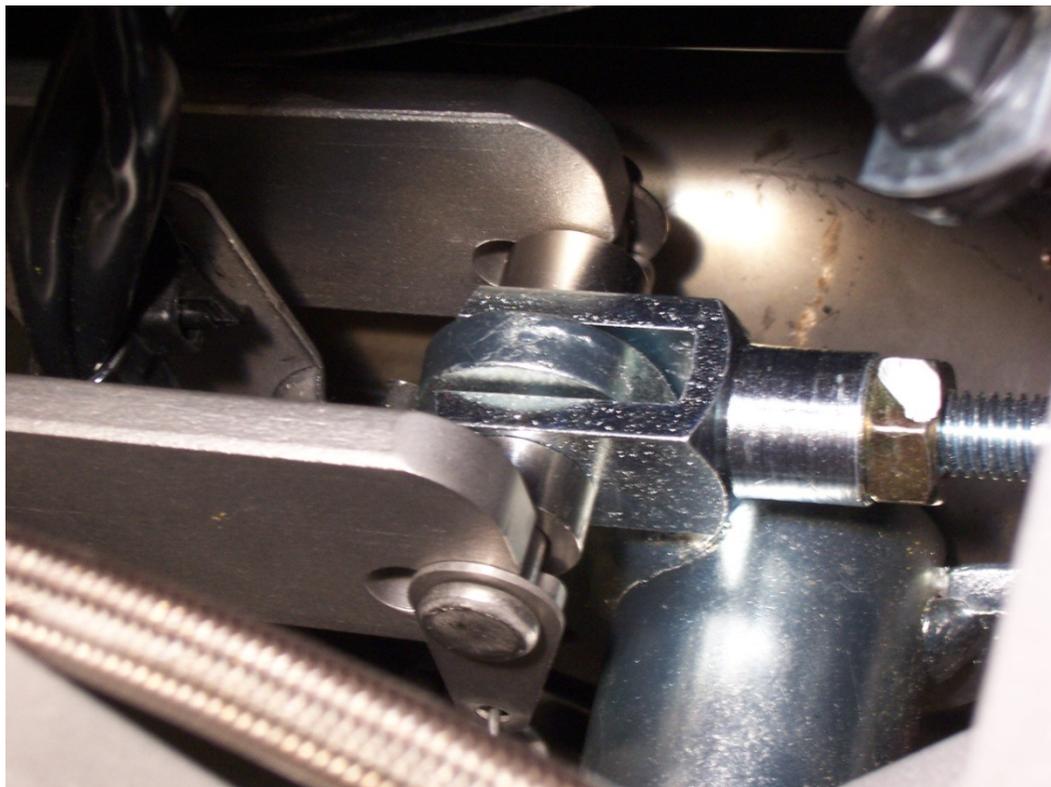
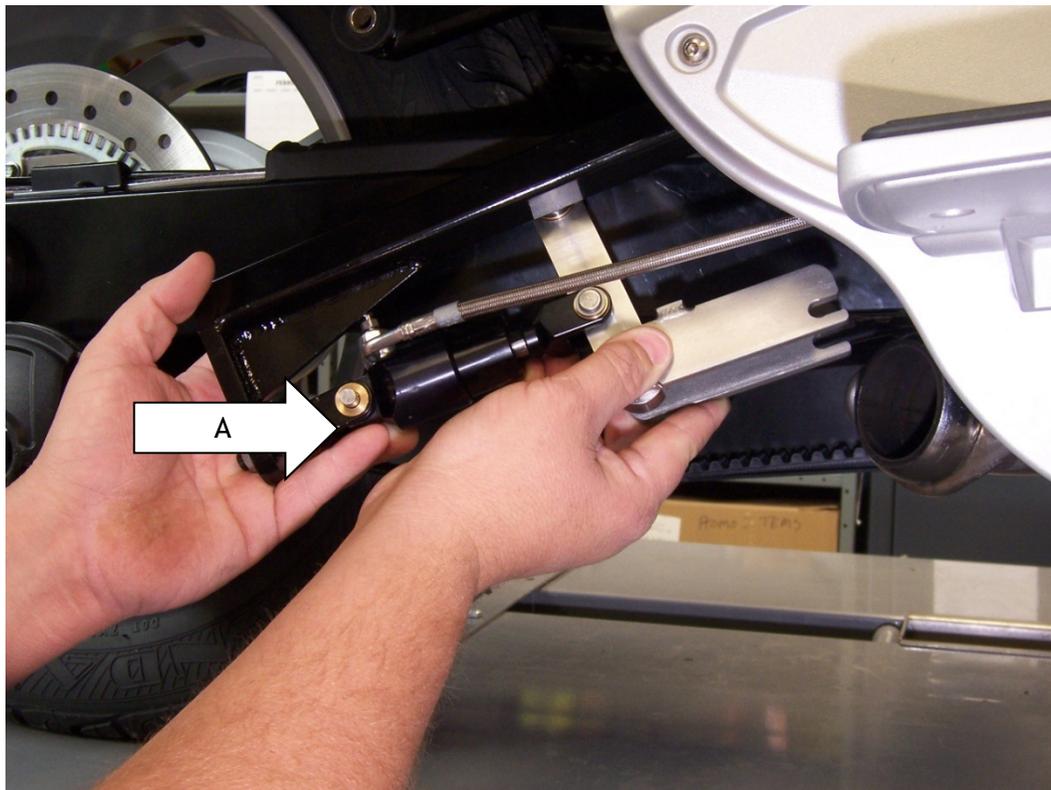
7. Install 5/16" bushing and washer then insert Cotter Pin into Clevis Pin and then spread apart to retain. Locate the bushings against the OEM clevis and position the Clevis Pin so that there is 1/4" spacing between the washers and the bushings.



8. Remove the muffler. DO NOT reinstall muffler until everything is installed and system has been bled!!



9. Bolt brake line to the Slave Cylinder with the Bleeder Banjo Bolt and 2 Crush Washers. Bring bracket and slave assembly underneath the Spyder so that the holes in the bracket line up with the holes in the top of the Driver's Footrest Support and the new clevis straddles the OEM clevis as shown below. Note: There is no cotter pin in this clevis pin at this point at arrow "A"

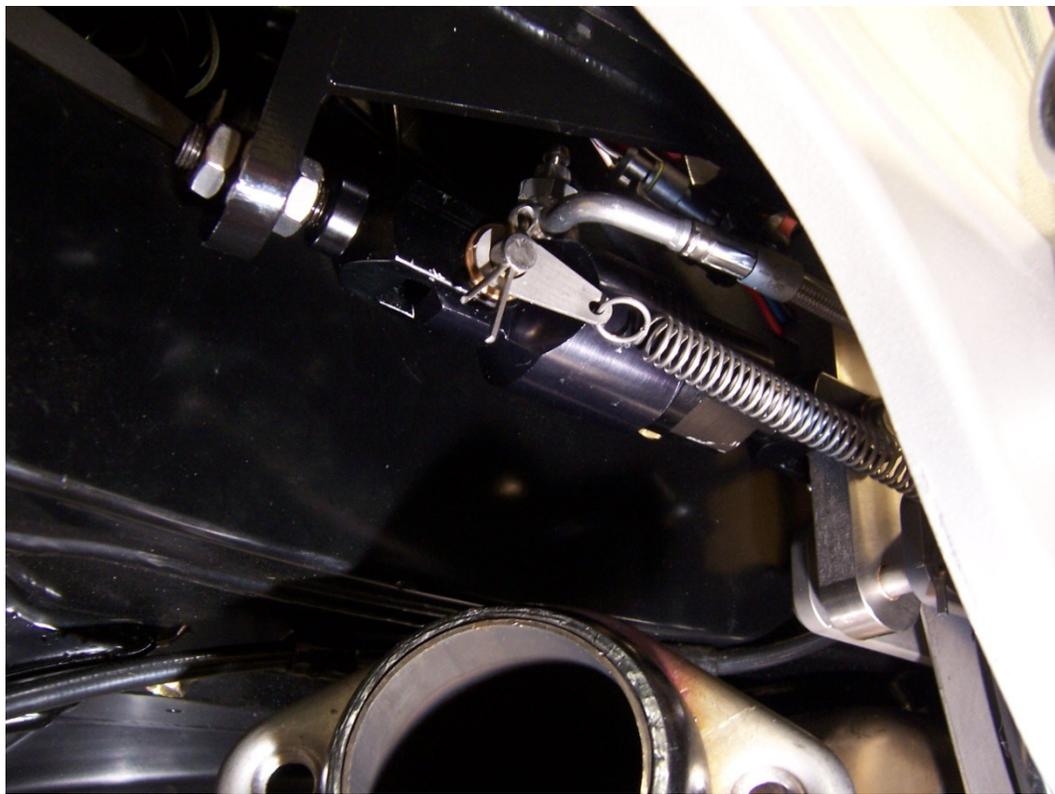




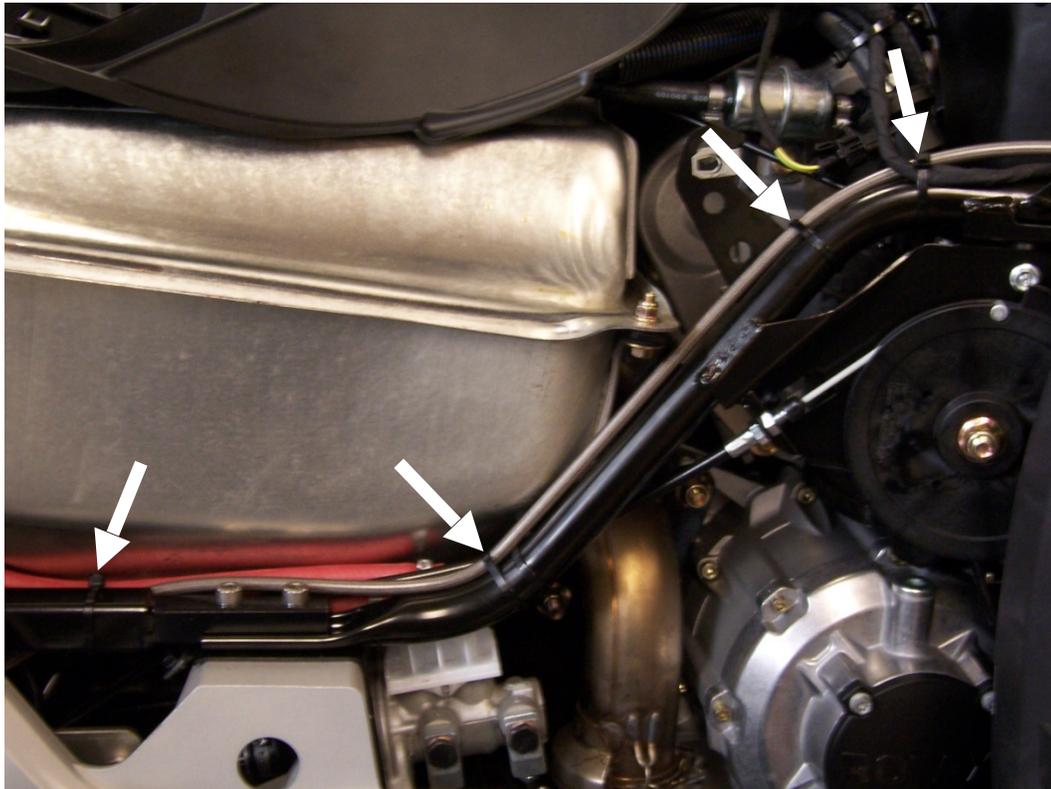
10. Install two M8x40mm Hex Head Bolts through the bracket and into the top of the Driver's Footrest Support.
11. Install bracket to space brake reservoir hoses away from bracket and secure with a ty-wrap.



12. Pull back Spring and Link Washer and attach to Clevis Pin at the rear of the Slave Cylinder. Install Cotter Pin and then spread apart to retain.



13. Route Braided Brake Line from Slave Cylinder to the Handle Bar as shown in the following pictures. Remove right hand lower Handle Bar Cover.





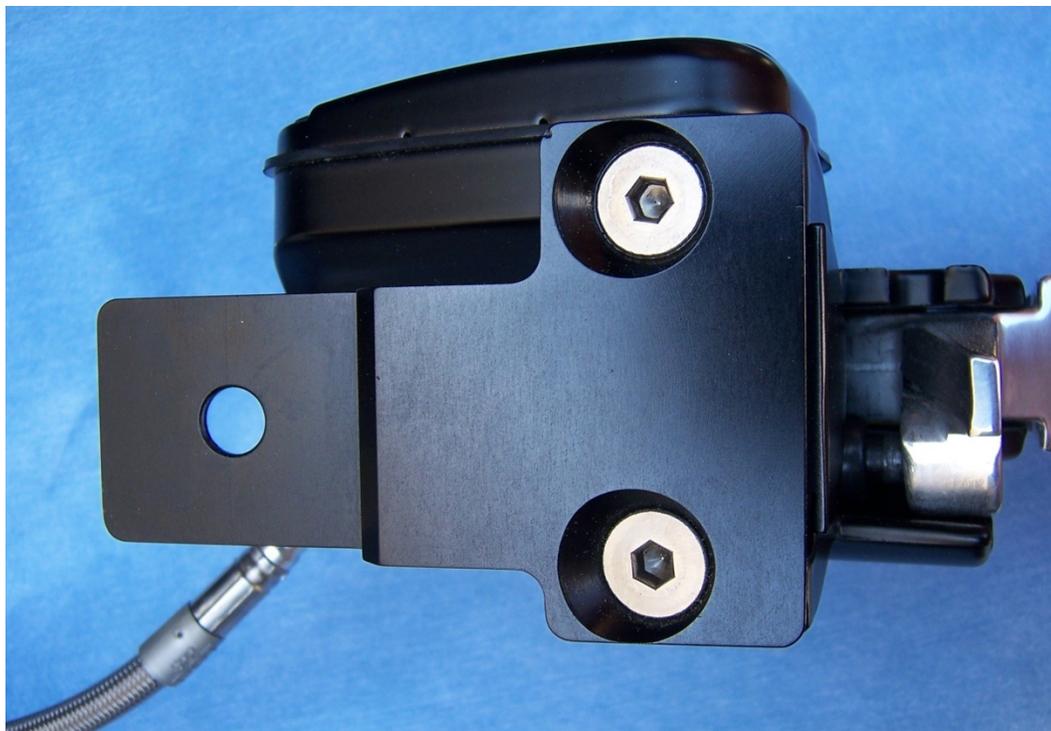
14. Remove 4 screws holding the throttle clamp and replace with the one as shown below. Notice the placement of the wire bundles on either side of the mounting boss. Place the the 2 3/16" x 1/2" dowels as shown.



15. At this time the Lower Handlebar Cover would be installed and then the Accessory Bracket. The following picture shows the Accessory Bracket mounted without the cover in place. Be sure not to pinch the wire bundle when installing.



16. Attach Master Cylinder Bracket to the Master Cylinder using 2  $\frac{1}{4}$ "-20 x  $\frac{5}{8}$ " Flathead Screws as shown below with Master Cylinder Filler Block in between.





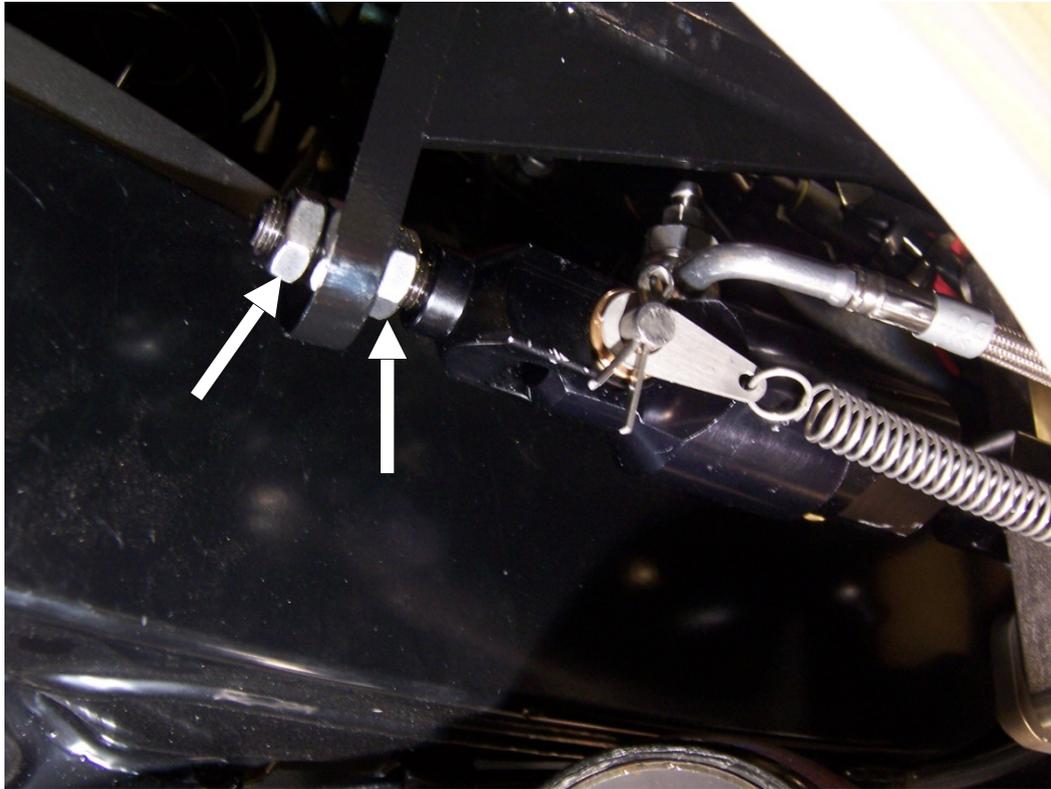
17. Attach Master Cylinder Bracket to Accessory Bracket using  $5/16''-18 \times 3/4''$  Flathead Screw.



18. With Handlebar Cover installed.

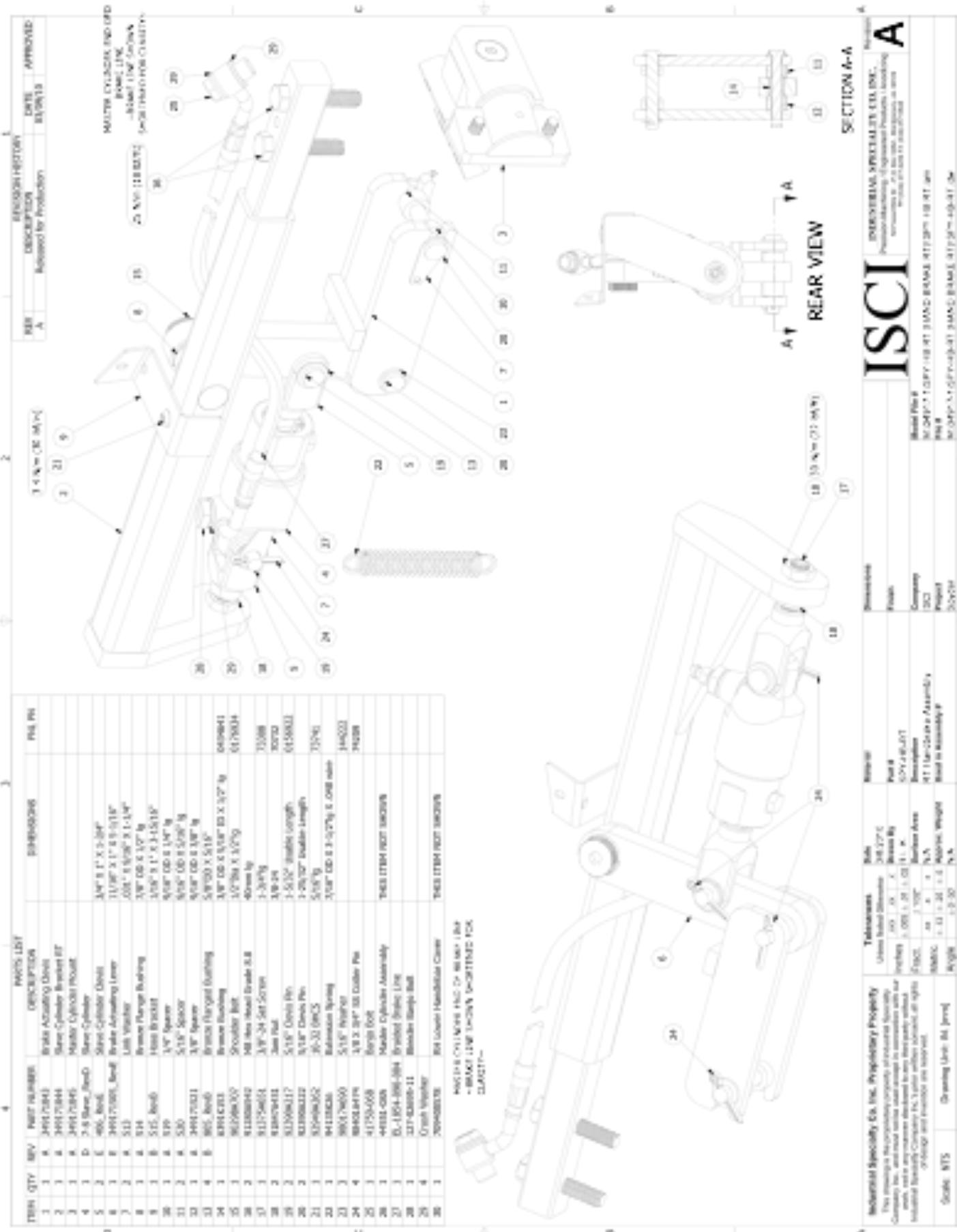


19. Attach brake line to the master cylinder using the supplied black banjo bolt and two crush washers. Fill master cylinder with DOT 4 brake fluid and bleed till there is no air coming out of the bleeder valve. Connecting a clear tube to the bleeder will help from making a mess and you can easily see when there is no more air coming from the slave cylinder.
20. Use ty-wraps to secure brake line along the Lateral Support Tube and on the Slave Cylinder Mounting Bracket.
21. Loosen the two Jam Nuts at the rear of the slave cylinder so that the brake pedal is in its upmost position. Tighten the front jam nut against the mounting bracket until the brake pedal starts to move down and then back off that jam nut  $\frac{1}{2}$  turn. Check to make sure that the brake lights are not on. If they are on continue backing off the front jam nut  $\frac{1}{2}$  turn at a time until the brake lights are no longer on. At this time tighten the rear jam nut securely.



22. Make sure that spring doesn't rub or interfere with the passenger floorboard adjustment screw.
23. Reinstall all body panels that were removed and the installation is complete.

If for some reason you are having trouble with any part of this installation please do not hesitate to give us a call at 334-277-2224. Ask for Jeff Kranzusch.



REV	DESCRIPTION	DATE	APPROVED
A	Issued for Production	8/10/13	

REVISION HISTORY	
1	3/4" N x 3/8" M x 1/2"
2	21 9
3	25 N x 1.8 (2.75)
4	25 N x 1.8 (2.75) SORTED FOR QUALITY

ITEM	QTY	REV	PART NUMBER	DESCRIPTION	PHS P/N
1	1	A	349170413	Brake Actuating Lever	
2	1	A	349170444	Slave Cylinder Bracket RT	
3	1	A	349170445	Master Cylinder Mount	
4	1	D	3/8 Slave Arm	Slave Cylinder	
5	2	E	405 Arm	Slave Cylinder Arm	
6	1	F	349170505	Brake Actuating Lever	
7	1	A	511	Link V-bush	
8	1	A	514	Brake Flange Bushing	
9	1	B	515 Arm	Link Bracket	
10	1	A	519	1/4" Spacer	
11	1	A	520	5/16" Spacer	
12	1	A	349170211	1/8" Spacer	
13	1	B	405 Arm	Brake Flange Bushing	
14	1	B	419142103	Brake Bushing	
15	1	B	402080100	Shockstop Bolt	
16	1	B	412080102	MB New Head Brake B.B.	
17	1	B	412120401	3/8" x 3/4" S&W Screw	
18	1	B	412070411	Jam Nut	
19	1	B	412080117	5/16" Drive Pin	
20	1	B	412080122	5/16" Drive Pin	
21	1	B	412080152	3/8" O.R.C.S	
22	1	B	411208201	Retraction Spring	
23	1	B	405170500	5/16" Pin/Bush	
24	1	B	405020419	1/8" x 3/4" O.R.C.S Pin	
25	1	B	417501008	Bush 608	
26	1	B	44101-008	Master Cylinder Assembly	
27	1	B	41-1054-100-104	Bracket Brake Line	
28	1	B	127-02000-11	Master Sample Ball	
29	1	B	Crush Washer		
30	1	B	200400010	RT Lower Handrail Cover	

PHS DIMENSIONS  
 3/4" N x 3/8" M x 1/2"  
 21 9  
 25 N x 1.8 (2.75)  
 25 N x 1.8 (2.75) SORTED FOR QUALITY

MULTI CYLINDER END OF LINE  
 BOMC LINE  
 -ASSEMBLY LINE  
 SORTED FOR QUALITY

THIS ITEM FITS TRACKS  
 THIS ITEM FITS TRACKS

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INDUSTRIAL SPECIALTY CO. INC. PROPRIETARY PROPERTY		TELEVISIONS		DIMENSIONS	
This drawing is the property of Industrial Specialty Co. Inc. and shall remain the property of Industrial Specialty Co. Inc. until such time as it is returned to Industrial Specialty Co. Inc. in full and complete accordance with the terms and conditions of the purchase order. All rights are reserved.		Units Sold/Minimum	24127 C	Width	
Part #	349170413	Part #	349170413	Company	ISCI
Part #	349170413	Description	Brake Actuating Lever	Project	349170413
Part #	349170413	Material	Steel	Project	349170413
Part #	349170413	Weight	0.10	Project	349170413
Part #	349170413	Weight	0.10	Project	349170413

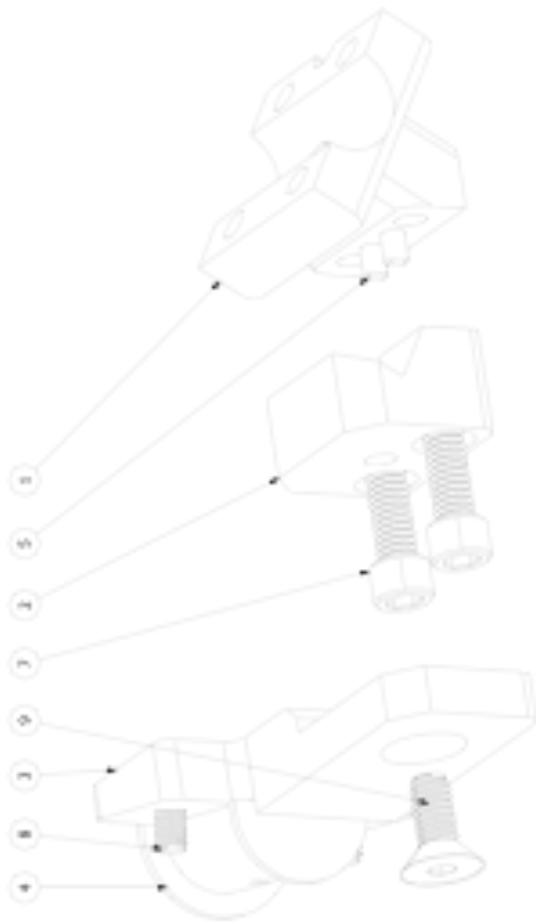
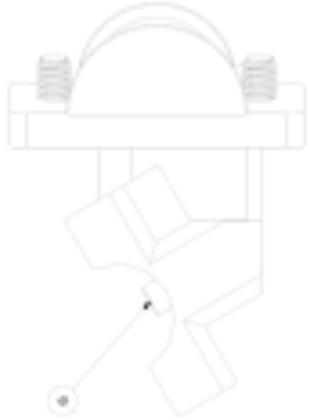
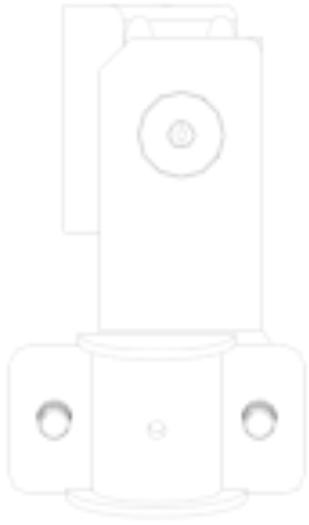
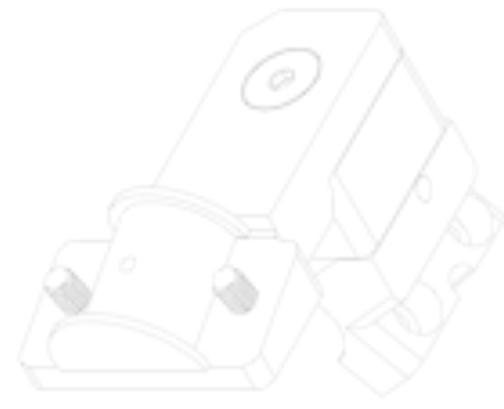
SECTION A-A  
 REAR VIEW

Scale: NTS  
 Drawing Unit: In. (mm)

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ITEM	QTY	REV	PART NUMBER	DESCRIPTION	DIMENSIONS	PAL NO
1	1	B	501-F-001	Clamp	3-5/16" X 1-3/4" X 1-3/4"	
2	1	B	501-F-002	Assembly Bracket	3/8" X 1-1/4" X 1-1/4"	
3	1	B	501-F-003	Holder - Corner Bracket	3/8" X 1-1/4" X 1-1/4"	
4	1	A	501-F-004	Holder - Corner Plate Black	3-1/8" O.D. X 1-1/4" Hg	
5	2		9115-0005	3/16" Bolt	3/2" Lg	
6	1		9115-0007	1/4" Nut	3/2" Hg	
7	2		9115-0150CS	5/16" - 18 SACS	3/8" Hg	73469
8	2		902300036	1/4" - 28 PINS	3/8" Lg	
9	1		902300081	5/16 - 18 PINS	3/4" Lg	

REV A  
 DATE APPROVED  
 DESIGNED BY  
 RELEASED BY



**INDUSTRIAL SPECIALTY CO. INC.**  
 Premium Machine Engineering Products / Assembly  
 10000 ROUTE 720, BOX 1000, WESTFIELD, MA 01191  
 TEL: 413-255-1234 FAX: 413-255-1235

**ISCI**

Model: P807  
 Part #: M-20017-T2P7Y18-K7-15M0-0000-K7-1P-00249111-00-1-00  
 Project: M-20017-T2P7Y18-K7-15M0-0000-K7-1P-00249111-00-1-00  
 Syctm: M-20017-T2P7Y18-K7-15M0-0000-K7-1P-00249111-00-1-00

Material	Material	Material	Material
Part #	20017-040	Part #	20017-040
Description	Holder - Corner Bracket	Description	Holder - Corner Bracket
Material	304	Material	304
Weight	0.18	Weight	0.18

Scale: NTS    Drawing Unit: In    [mm]

**INCLUSIVE IN RELATION TO THE LIABILITY OF ISCI (SELLER).**

