



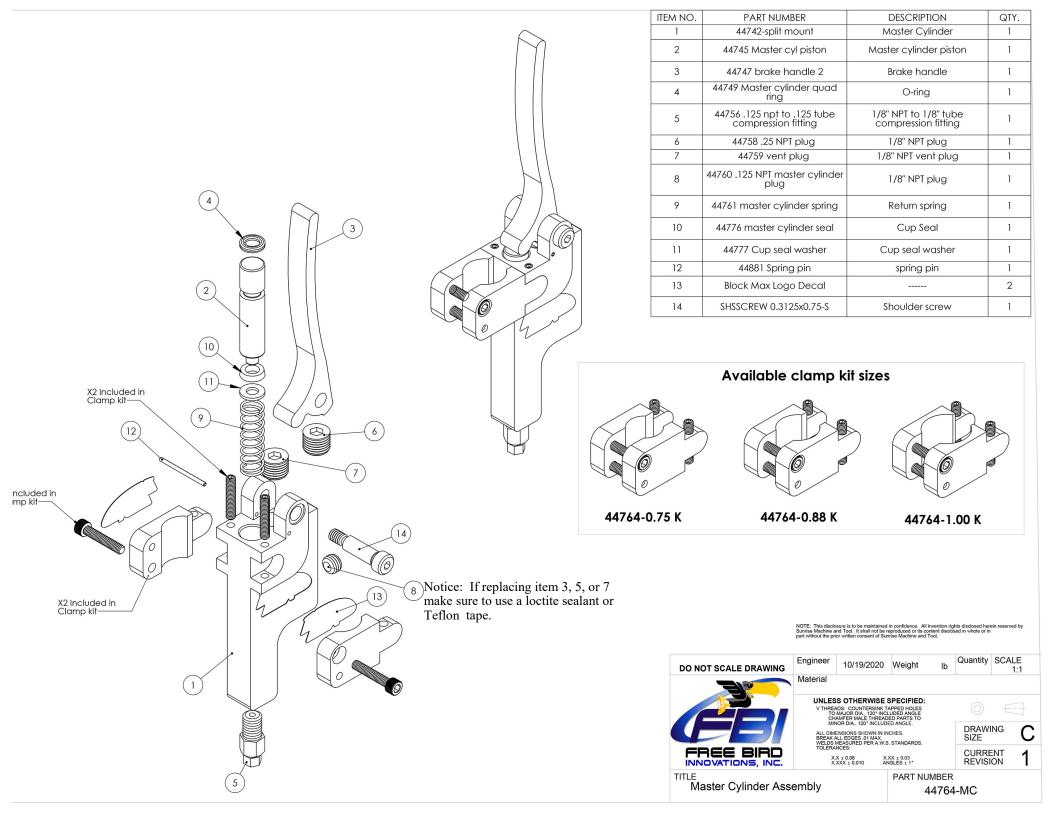
PLEASE READ THROUGH THE ENTIRE MANUAL BEFORE INSTALLING YOUR BRAKE SYSTEM

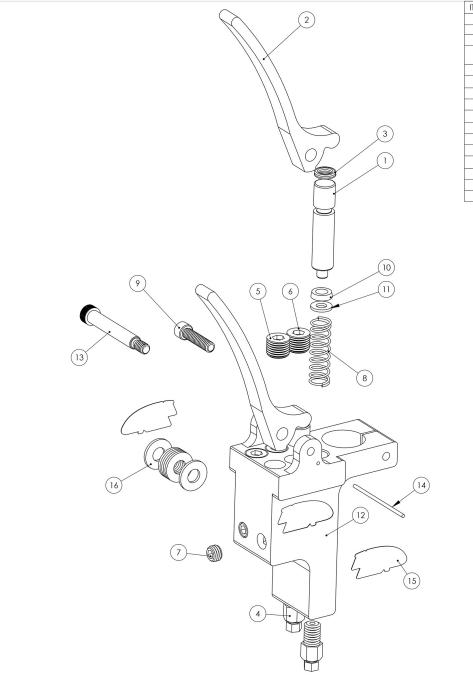
WARNING - DO NOT USE BRAKE FLUID - USE ATF HYDRAULIC FLUID ONLY

****IMPORTANT**** DO NOT USE ANY OTHER SEALS OTHER THEN WHAT IS SUPPLIED WITH THIS SYSTEM. INCOMPATIBLE SEALS WILL RESULT IN SYSTEM FAILURE

- ****IMPORTANT**** USE ATF FLUID ONLY (Automatic Transmission Fluid) ANY OTHER FLUID MAY DAMAGE THE SYSTEM
- ****IMPORTANT**** DO NOT USE BRAKE FLUID WITH THIS SYSTEM. BRAKE FLUID WILL DAMAGE THE SEALS
- ****IMPORTANT**** DO NOT EXCEED THE GROSS WEIGHT LIMIT OF 1000 LBS
- ****IMPORTANT**** USE PROVIDED LOCK NUTS AND LOCK WASHERS TO PREVENT WHEEL FROM LOOSENING
- ****IMPORTANT**** REPLACE TIRES ANNUALLY OR WHEN SHOWING EXCESSIVE WEAR.
- **IMPORTANT** DO NOT USE IF THERE IS ANY SIGN OF LEAKING. MAKE REPAIRS IMMEDIATELY
- ****IMPORTANT**** MOUNT CALIPER WITH A BLEEDER SCREW LOCATED IN THE TOP POSITION ONLY. USE THE NYLON TIPPED SET SCREWS TO PLUG THE TWO OTHER UNUSED BLEEDER SCREW LOCATIONS.
- ****IMPORTANT**** MOUNT THE MASTER CYLINDER IN AN UPRIGHT POSITION TO PREVENT OIL FROM LEAKING FROM THE VENT PLUG.
- ****IMPORTANT**** NOTICE THE ATF HYDRAULIC FLUID WILL DISCOLOR IN DIRECT SUN LIGHT AND SHOW CLEAR IN SOME AREAS AND WILL APPEAR AS IF THERE IS AIR IN THE LINES
- ****IMPORTANT**** ALWAYS REPLACE THE NYLOCK AXLE NUT AFTER REMOVING IT MORE THEN TWO TIMES
- **IMPORTANT** MAKE SURE THE AN10 WASHER IS LOCATED BETWEEN THE HUB ASSEMBLY AND CALIPER (See Assy. Drawing)
- ****IMPORTANT**** ONLY USE THE BRAKE LINE SUPPLIED WITH KIT OR A CUSTOM FITTED ALUMINUM BRAKE LINE (Other plastic line may look similar but will not hold the pressure resulting in weak and spongy braking performance)

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ITEM NO.	PART NUMBER	DESCRIPTION	D	12 Pefault/QT Y.	13		e a
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1 2	44772 44746	Wheel hub assen Brake rotor	nbly	12 Pefault/QT Y. 1 1	13	3	e la
1 2 3	44772 44746 44766	Wheel hub assen Brake rotor BX-1000 caliper asse	embly	12 refault/QT Y. 1 1 1 1	13	3	4
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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	44745 Master cyl piston	Master cylinder piston	2
2	44747 brake handle 2	Brake handle	2
3	44749	O-ring	2
4	44756 .125 npt to .125 tube compression fitting	1/8" NPT to 1/8" tube compression fitting	2
5	44758 .25 NPT plug	1/8" NPT plug	2
6	44759 vent plug	1/8" NPT vent plug	2
7	44760 .125 NPT master cylinder plug	1/8" NPT plug	2
8	44761 master cylinder spring	Return spring	2
9	44763		1
10	44776 master cylinder seal	Cup Seal	2
11	44777 Cup seal washer	Cup seal washer	2
12	46005-1 Master cylinder	Master Cylinder	1
13	46007		1
14	46011		1
15	Block Max Logo Decal		2
16	46009		7

	Sunrise Machine a	sure is to be maintained ind Tool. It shall not be ior written consent of Su	in confidence. All invention rig reproduced or its content disclo nrise Machine and Tool.	hts disclosed hen sed in whole or in	in reserved by
DO NOT SCALE DRAWING	Engineer JV	7/9/2019	Weight 1.18 lb	Quantity	SCALE 1:1
	Material				
	V THREA	S OTHERWISE ADS: COUNTERSINK T MAJOR DIA., 120* INC AMFER MALE THREAD	APPED HOLES		
CEI	ALL DIM BREAK	NOR DIA., 120° INCLUD ENSIONS SHOWN IN IP ALL EDGES .01 MAX. MEASURED PER A.W.S	ED ANGLE. ICHES.	DRAWI SIZE	NG C
FREE BIRD	TOLERA	NCES: X + 0.06 X	XX ± 0.03 NGLES ± 1*	CURRE REVISI	
TITLE Black Max Dual Lever cylinder assembly-			PART NUMBER 460		

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.				_	
1	44951	DESCRIPTION Master Cylinder heel/toe, universal mt	1		12			
2	44892	Master cylinder piston, heel operted	1	_	11		2	
3	44915	snap ring	1	-		· /		
4	44777	snap ring Cup seal washer	1			$\langle \mathcal{O} / \rangle$		
5	44776	l Cup Seal I	1				~	
6	44761	Return spring	1			\checkmark		
/	44749	O-ring Heel button 1/4-28 jam nut	l	- 1	\mathbf{O}	$\langle \bigcirc /$	6	
8	44894 44918	Heel putton	1		3	0-//	$\sim $	7)
10	35307	swivel rod end	1		•			
11	44899	Master cyl. cover	1	-		/ //		
11		heel/toe	L.			\sim	\neg	
12	44916 44917	swivel rod end Master cyl. cover heel/toe 8-32x1/2 FHCS Gasket	2			M 6 ~~		
3	4491/	Gasket				n 2		
	3 9					4	~6	
	3 9 10			> > 7	2	4	-6	
				> > ~ 7	2 TITLE:		∼ 6 cylinder He	eel/Toe
otes:	UNLESS OT DIMENSI TOLERAI FRACTIC ANIGULA TWO PLA	THERWISE SPECIFIED: ONS ARE IN INCHES VCES: NAL11/8" NR: MACH± 5.5" BEND ±1" R: MACH± 5.3" BEND ±1" FINISH			Part #	Master		eel/Toe

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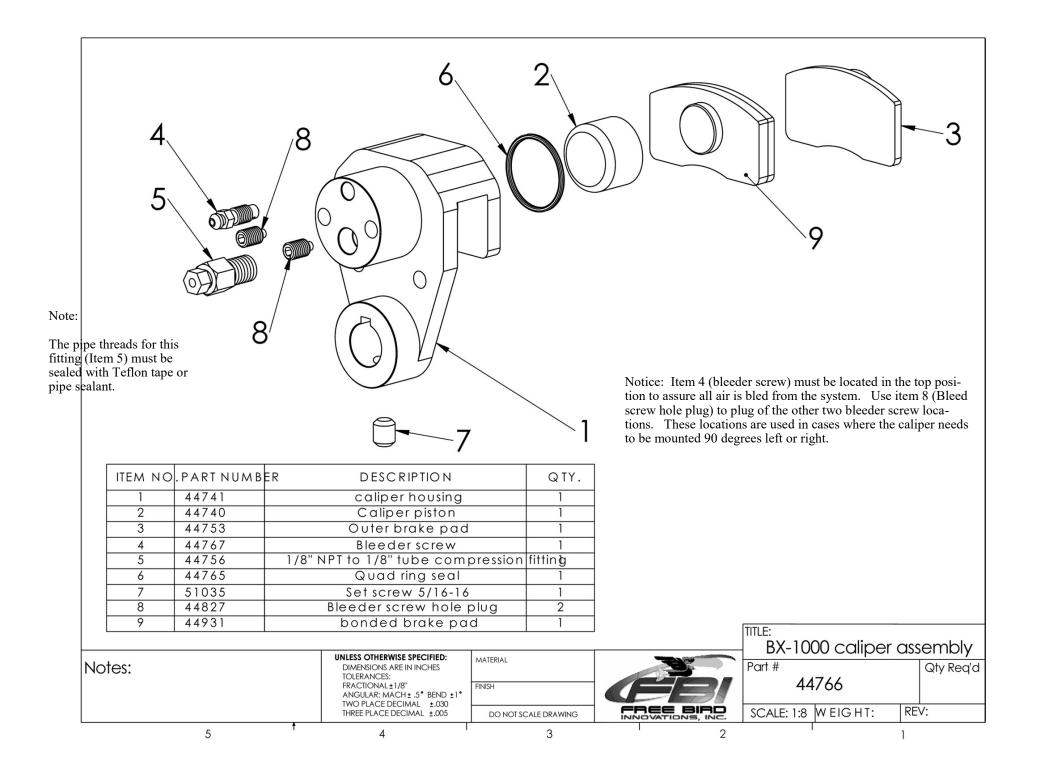
tem 5	ads for this 5) must be		,	
ith T ant.	eflon tape or			Notice: Item 4 (bleeder screw) must be located in the top posi-
	ITEM NO.	PART NUMBER	DESCRIPTION Master cylinder, multi-function	tion to assure all air is bled from the system. Use item $\hat{8}$ (Blee QIY screw hole plug) to plug of the other two bleeder screw loca-
		44960	Master cylinder, multi-tunction	<u>i</u> tions. These locations are used in cases where the caliper need
	2	44961	Master cylinder piston, multi- function	1 to be mounted 90 degrees left or right.
	3	44749	O-ring	
	4	44915	Snap ring	

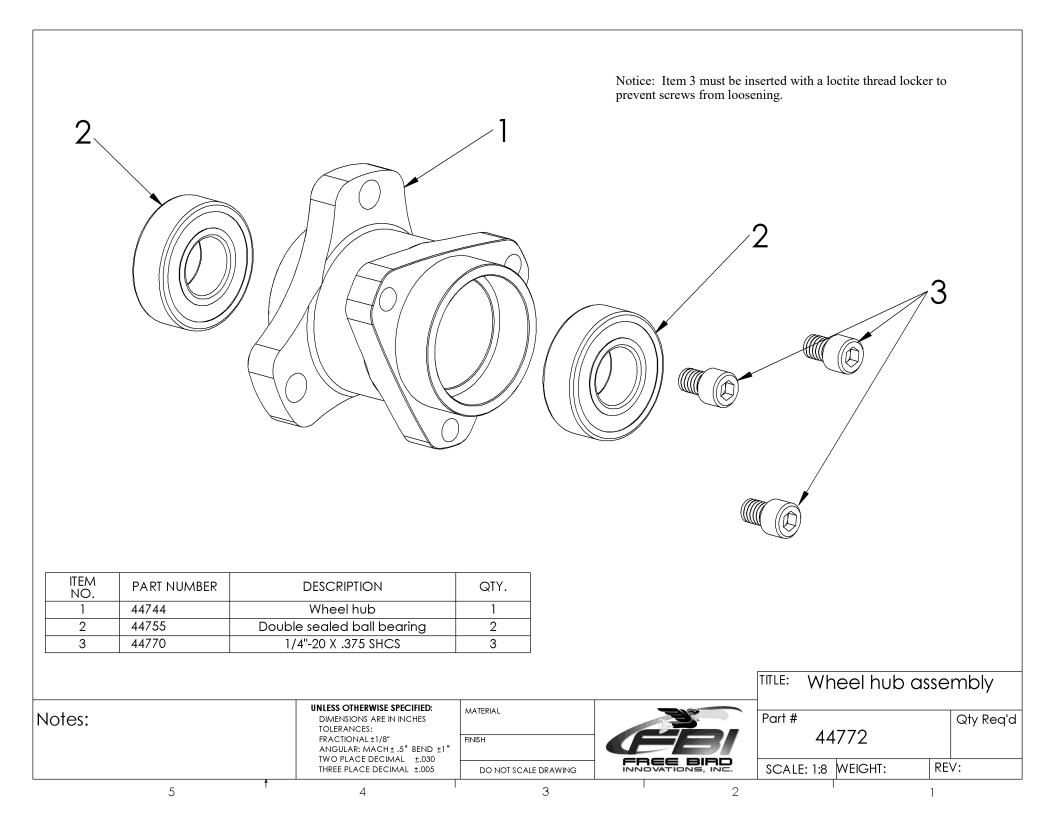
Note:

The pipe th fitting (Iten sealed with pipe sealan

		DECODIDEIONI	
IIEM NO.I	PART NUMBER	DESCRIPTION	QIY.
1	44960	DESCRIPTION Master cylinder, multi-function	1 t
2	44961	Master cylinder piston, multi- function] to
3	44749	O-ring	1
4	44915	Snap ring	1
5	44761	Return spring	1
6	44777	Cup seal washer	1
7	44776	Cup Seal	1
8	HJNUT 0.2500-28-D-N	1/4-28 jam nut	1
9	44963	Rod clevis 1/4-28	1

				Master cv	I./multi-function
Notes:	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL±1/8" ANGULAR: MACH±.5" BEND±1" TWO PLACE DECIMAL ±.030	MATERIAL	E	Part # 44962	Qty Req'd
	THREE PLACE DECIMAL ±.005	DO NOT SCALE DRAWING	INNOVATIONS, INC.	SCALE: 1:1.5WE	EIGHT: REV:
5	4	3	2	Ţ	1





1. Mount Tire *(See Split Rim Section for Mounting Split Rims)* Apply soapy water to edge of tire bead and wheel rim. Apply the tire to the rim and spread it apart. Connected to the air chuck to valve stem and with the air flowing into rim pinch the ends of the tire to spread the bead of the tire until the tire seats and pops on to the bead on both sides. Inflate to desired pressure. Note the stock tire is a 4.00-6 tire that is installed on both the 4" and 6" wide rims. See the installation videos on our website for more info (www.flyfbi.com/html/hydraulic_brakes.html)

2. Mount Hub To Wheel

Attach the hub to the wheel on the opposite side of valve stem with supplied hex headed bolts. Apply the flange nuts to the back side of hex headed bolts to secure hub to wheel.

Note: Make sure to insert lock washers under the bolt head

3. Mount Axle to Frame

Tap woodruff key into the axle and attach the supplied 5/8" axle to your frame. (*Note the caliper can be mounted vertical or horizontal by locating the bleeder screw at the highest location (plugging the other two with the supplied plugs*) Locate the desired position of the axle before drilling the axle.

(Note: You may need to fabricate your own mounting system or contact FBI for custom made mounting hardware.)

4. Apply Sealant To Fitting

Apply either loctite sealant or Teflon tape to the straight thread of the compression fitting. Rap the tape in the direction shown in the picture or use loctite 592 thread sealant instead of the tape.

Note: sealant is not used on the plugs or the bleeder screw

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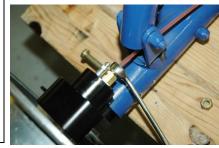
Teflon tape or loctite thread sealant on the pipe threads only. You do not need to seal the threads on the bleeder screw, bleeder screw plugs, or the compression fitting threads, just the pipe threads going into the caliper and the master cylinder. Using the "T" connecter, route the brake line and connect both calipers to the master cylinder by inserting the brake line about 1/2" through the male compression fitting into the female fitting keeping the line inside fitting as far as it will go and then tighten the ferrule part of the fitting finger tight and then 1-3/4 more turns.

Note: On the straight compression fitting the ferrule will break free from the male compression fitting once it has been tightened and crimp on to the brake line. The TEE compression fitting will also crimp on to the brake line after the nut has been tightened. It is a good idea to lube the ends of the tubing by dipping them in the ATF fluid before inserting into the compression fitting.

Important: Install the AN10 washer between the hub assembly and the caliper. This will prevent the hub from rubbing against the caliper and will provide the proper spacing for the rotor. Route the line between the calipers and the TEE keeping the distance as short as possible.

Make sure to use Teflon tape or pipe sealant on pipe threads going into the caliper





8. Insert The Rotor

Slide the rotor over the axle and between the pads in the caliper. Hold it there while sliding the wheel hub assembly on to the axle.







9. Mount the Wheel

Slide the wheel on to the axle and locate the pins *(Socket Head Cap Screws)* on the Azusa adaptor to the holes on the rotor. Slide the wheel up tight and make sure the pins are still located in the holes of the rotor.





10. Secure the Locknut

Tighten main axle nut up slightly snug and back it up 1/4 turn or until wheel spins freely.

Note: This rotor is a full floating rotor and does not have any other mounting hardware to fasten to the wheel hub.



11. Mount Master Cylinder

Slide Master cylinder over 1" control stick locating the brake handle forward and secure by tightening the clamp screw. Remove reservoir plug and fill the chamber with Hydraulic Fluid or ATF fluid. Crack the bleeder screw and bleed the air from the lines and caliper. Note you will need to aid more oil after every 2 pumps. Continue until all the air is gone and hold pressure on the handle and retighten the bleeder screw. Repeat this for the other caliper. Once you have bleed the system leave the oil level below the depth of the plug to prevent seepage when reinserting the cap.







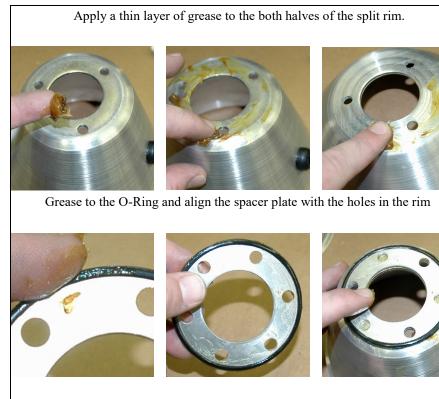






Black Max Split Rim

Assembly Instructions



Insert hub bolt and lock washer through the front side of the rim half (The half with the valve stem) and O-Ring spacer plate







Apply soapy water to both sides of the tire bead and insert front half and back half of the rim together using the 3 hub bolts. Insert hub bolts from the valve stem side.



Tighten the bolts to the hub attach the flange nuts to the excess thread protruding form the back of the hub to secure the hub bolts for safety.







Use a ratchet strap to help seal the bead. Apply air pressure and release the strap as the bead begins to seal before there is too much pressure on the strap







WARRANTY ON ALL PARTS ONLY

UNDER CONDITIONS OF NORMAL AND INTENDED USE. MISUSE, DAMAGE OR ALTERATION OF ANY COMPONENT VOIDS THE WARRANTY.

BRAKE PADS AND ROTORS ARE EXCLUDED FROM WARRANTY

USE OF ANY OTHER FLUID OTHER THAN ATF FLUID VOIDS THIS WARRANTY.

NO OTHER WARRANTIES WRITTEN, VERBAL, IMPLIED OR OTHER THAN LISTED HERE WILL BE HONORED.



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