

BX-1000 BLACK MAX



**Black
Max**

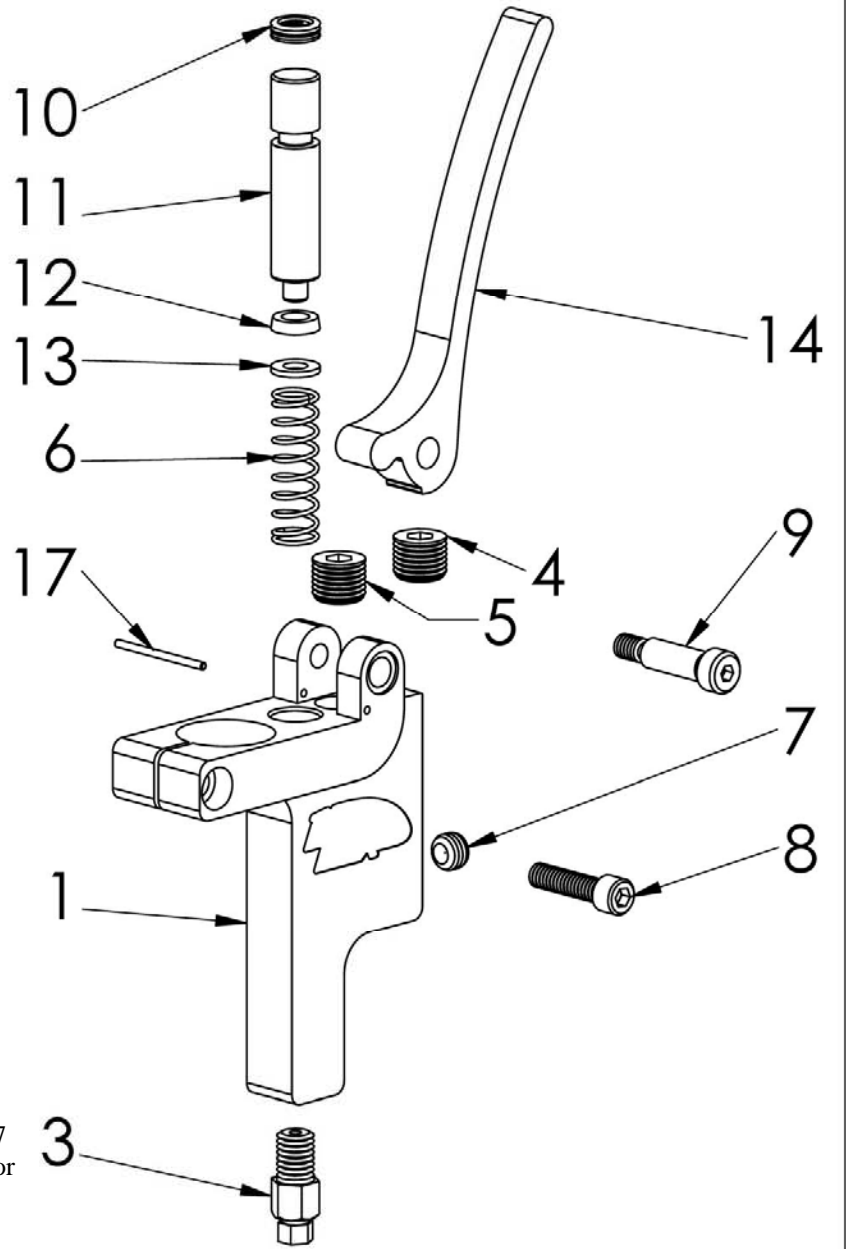
PLEASE READ THROUGH THE ENTIRE MANUAL BEFORE INSTALLING YOUR BRAKE SYSTEM

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.
NOTE: MASTER CYLINDER CAN BE MOUNTED SIDEWAYS WITH SPECIAL VENT KIT.
- **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

REVISIONS		
REV.	DESCRIPTION	DATE
A	Added new handle and spring pin for positive stop	3/24/2008

ITEM NO.	PART NUMBER	DESCRIPTION	Default/QTY
1	44742	Master Cylinder	1
2	44747	Brake handle	1
3	44756	1/8" NPT to 1/8" tube compression fitting	1
4	44758	1/8" NPT plug	1
5	44759	1/8" NPT vent plug	1
6	44761	Return spring	1
7	44760	1/8" NPT plug	1
8	44763	1/4"-20 SHCS S.S.	1
9	44762	Shoulder screw	1
10	44749	O-ring	2
11	44745	Master cylinder piston	1
12	44776	Cup Seal	1
13	44777	Cup seal washer	1
14	44747	Brake handle	1
15	44784	Foot brake lever	1
17	44881	spring pin	1



Notice: If replacing item 3, 5, or 7 make sure to use a loctite sealant or teflon tape.

Notes:

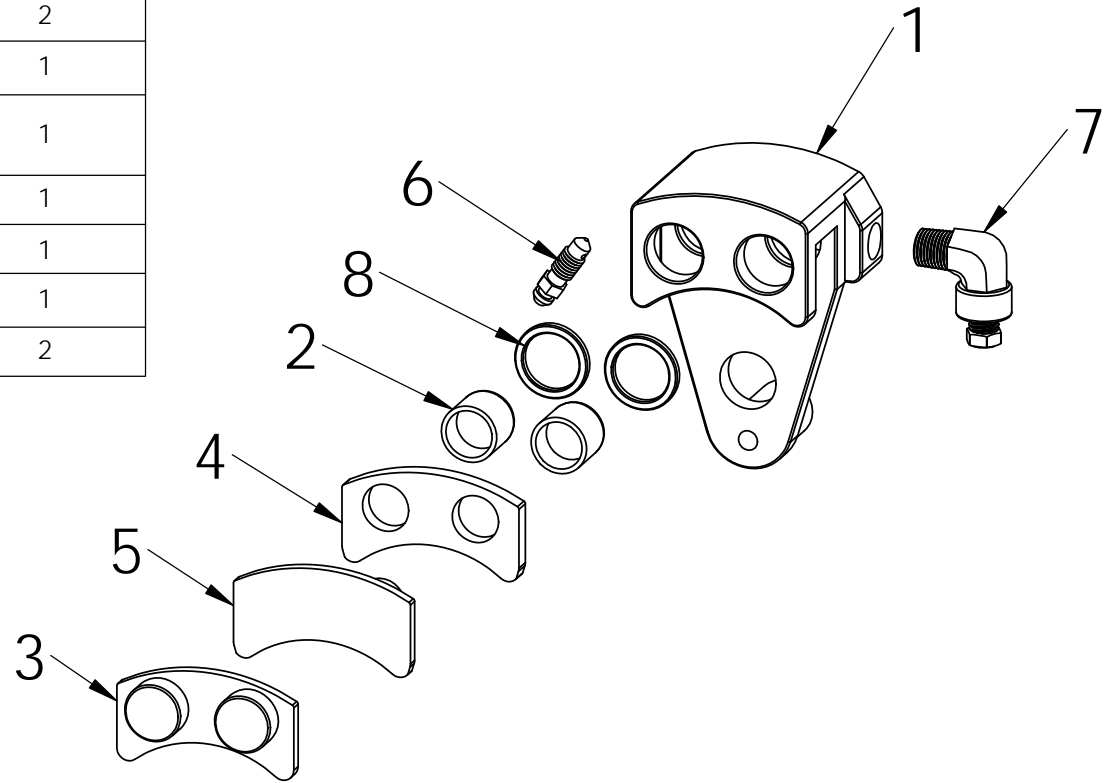
UNLESS OTHERWISE SPECIFIED:
 DIMENSIONS ARE IN INCHES
 TOLERANCES:
 FRACTIONAL ±1/8"
 ANGULAR: MACH ± .5° BEND ±1°
 TWO PLACE DECIMAL ±.030
 THREE PLACE DECIMAL ±.005

MATERIAL
 FINISH
 DO NOT SCALE DRAWING



TITLE: Master Cylinder Assembly		
Part #	44764	Qty Req'd A
SCALE: 1:8	WEIGHT:	REV:2

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	44877	Caliper housing, Puddle Jumper	1
2	44802	Caliper piston	2
3	44882	Brake pad, inner, 5 inch wheel	1
4	44884	outer brake pad backer plate 5" wheel	1
5	44883	outer brake pad	1
6	44767	Bleeder screw	1
7	44840	Brass Compression, elbow	1
8	44885	Quad ring seal	2



Notes:

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 FRACTIONAL $\pm 1/8"$
 ANGULAR: MACH $\pm .5^\circ$ BEND $\pm 1^\circ$
 TWO PLACE DECIMAL $\pm .030$
 THREE PLACE DECIMAL $\pm .005$

MATERIAL

FINISH

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TITLE:

Caliper assembly, Puddle Jumper

Part #

44890

Qty Req'd

SCALE: 1:8

WEIGHT:

REV:

5

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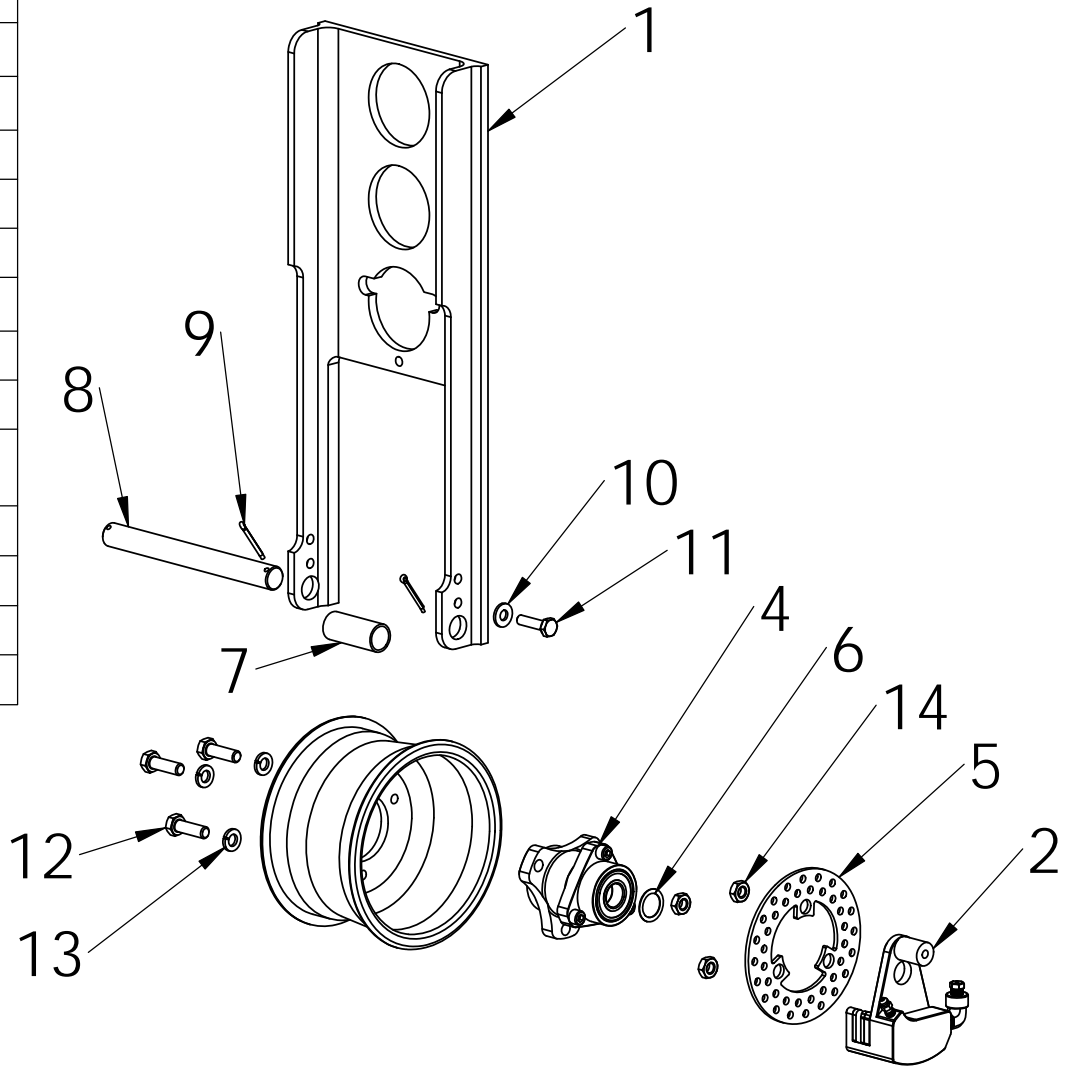
4

3

2

1

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Pud-9	Sliding Fork	1
2	44890	Caliper assembly, Puddle Jumper	1
3	44914	5" polished aluminum wheel	1
4	44772	Wheel hub assembly	1
5	44878	Brake rotor	1
6	AN960-1016	5/8" Flat washer	1
7	44879	Wheel hub spacer, Puddle Jumper	1
8	Pud-11	Axle	1
9	44871	7/64" x 1" Cotter Pin	2
10	AN960-416	AN4 Washer	1
11	AN4-5A	AN4 BOLT	1
12	44864	5/16-18 X 1-1/4"	3
13	44775	5/16" Washer	3
14	44774	5/16-18 Flange N	3



TITLE: Puddlejumper Brake Assembly ex

Notes:

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 TWO PLACE DECIMAL ±.030
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Part #		Qty Req'd
SCALE: 1:8	WEIGHT:	REV:

5

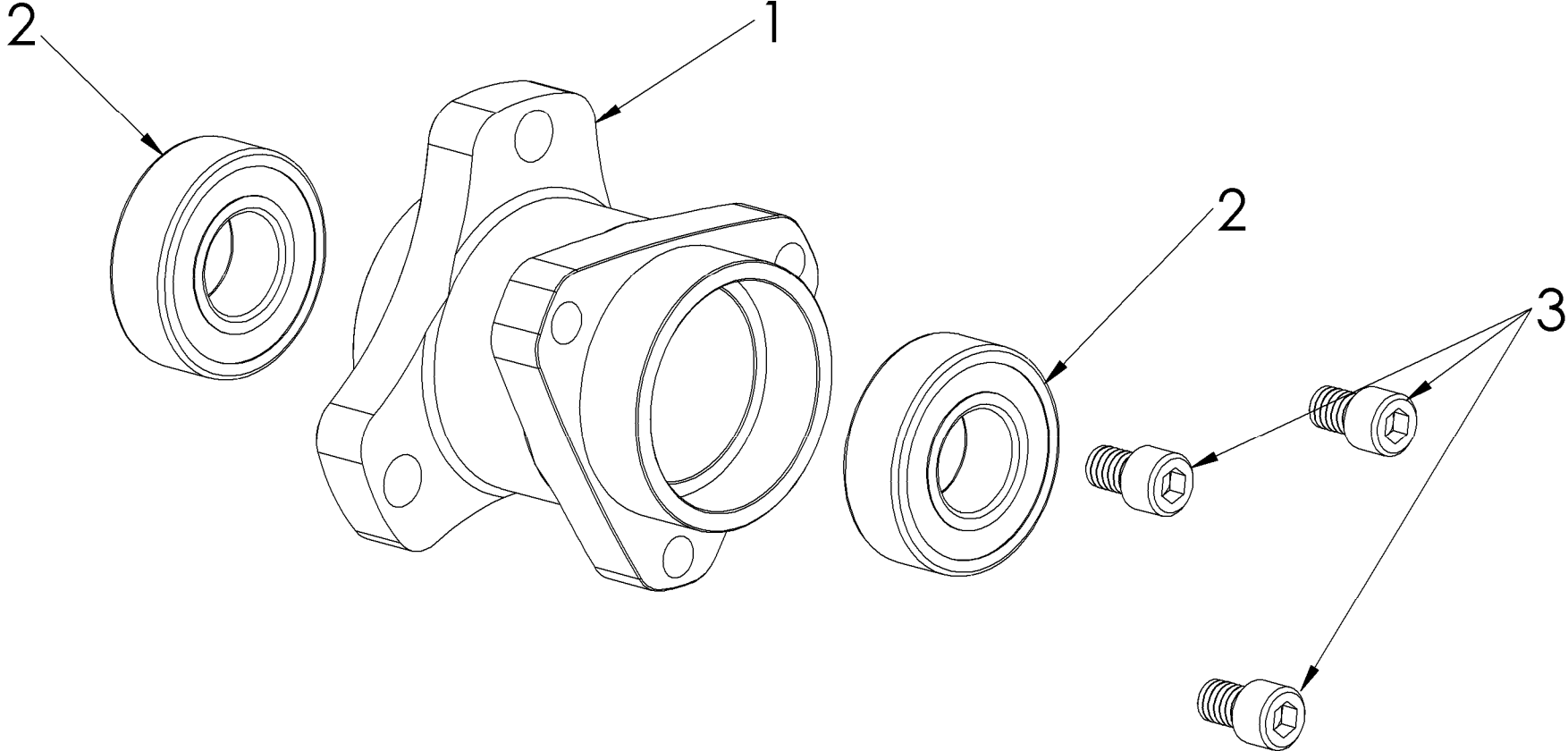
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2

1

Notice: Item 3 must be inserted with a loctite thread locker to prevent screws from loosening.



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	44744	Wheel hub	1
2	44755	Double sealed ball bearing	2
3	44770	1/4"-20 X .375 SHCS	3

TITLE: Wheel hub assembly

Notes:

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 ANGULAR: MACH ±.5° BEND ±1°
 TWO PLACE DECIMAL ±.030
 THREE PLACE DECIMAL ±.005

MATERIAL
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Part #	Qty Req'd
44772	
SCALE: 1:8	WEIGHT:
	REV:

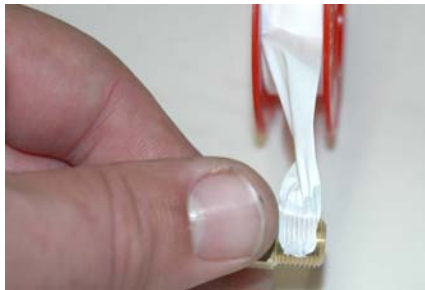
1. Mount Tire *(See Split Rim Section for Mounting Split Rims)*

Your wheels and tires are already mounted
Refer to the mounting section if you need to replace the tires.

2. 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.
Your fittings are already sealed; proceed with sealing if you remove and reinsert the fittings.

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



3. Installation in Float

Install wheel and brake inside float fork as shown in expanded view and pictures.

4. Install Brake Line

Using the "T" connector, 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 male fitting.

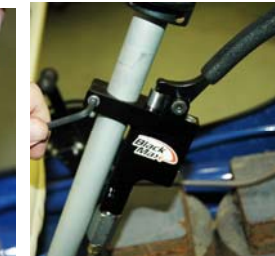
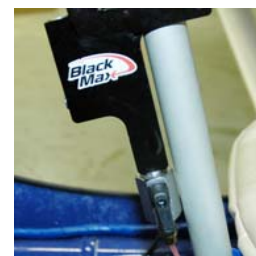
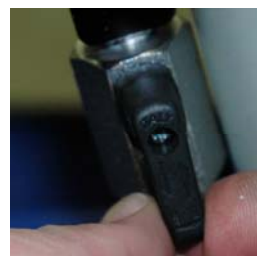
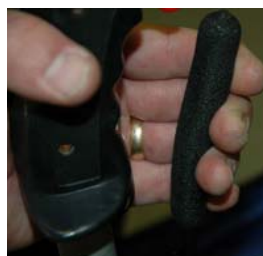
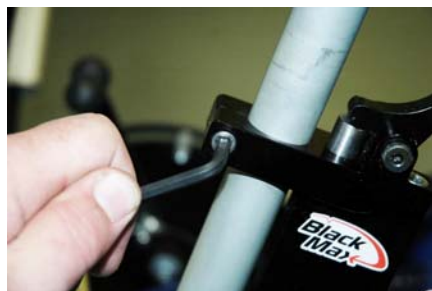
Note: On the straight compression fitting the ferrule will break free from the male compression fitting once it has been tightened and crimp on to the brake line. The TEE compression fitting will also crimp on to the brake line after the nut has been tightened.

Route the line between the calipers and the TEE keeping the distance as short as possible. The brake line must be attached to the side of the fork; drill small holes on the side of the fork and attach the brake line with a small tie-wrap or aircraft lock wire.

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

5. 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 add 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 bled 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

Apply a thin layer of grease to the both halves of the split rim.



Grease to the O-Ring and align the spacer plate with the holes in the rim



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 from 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

**1 YEAR LIMITED 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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