**PROLENC ®**
**MANUFACTURING INC.**

# SECTION 5

## 500 SERIES


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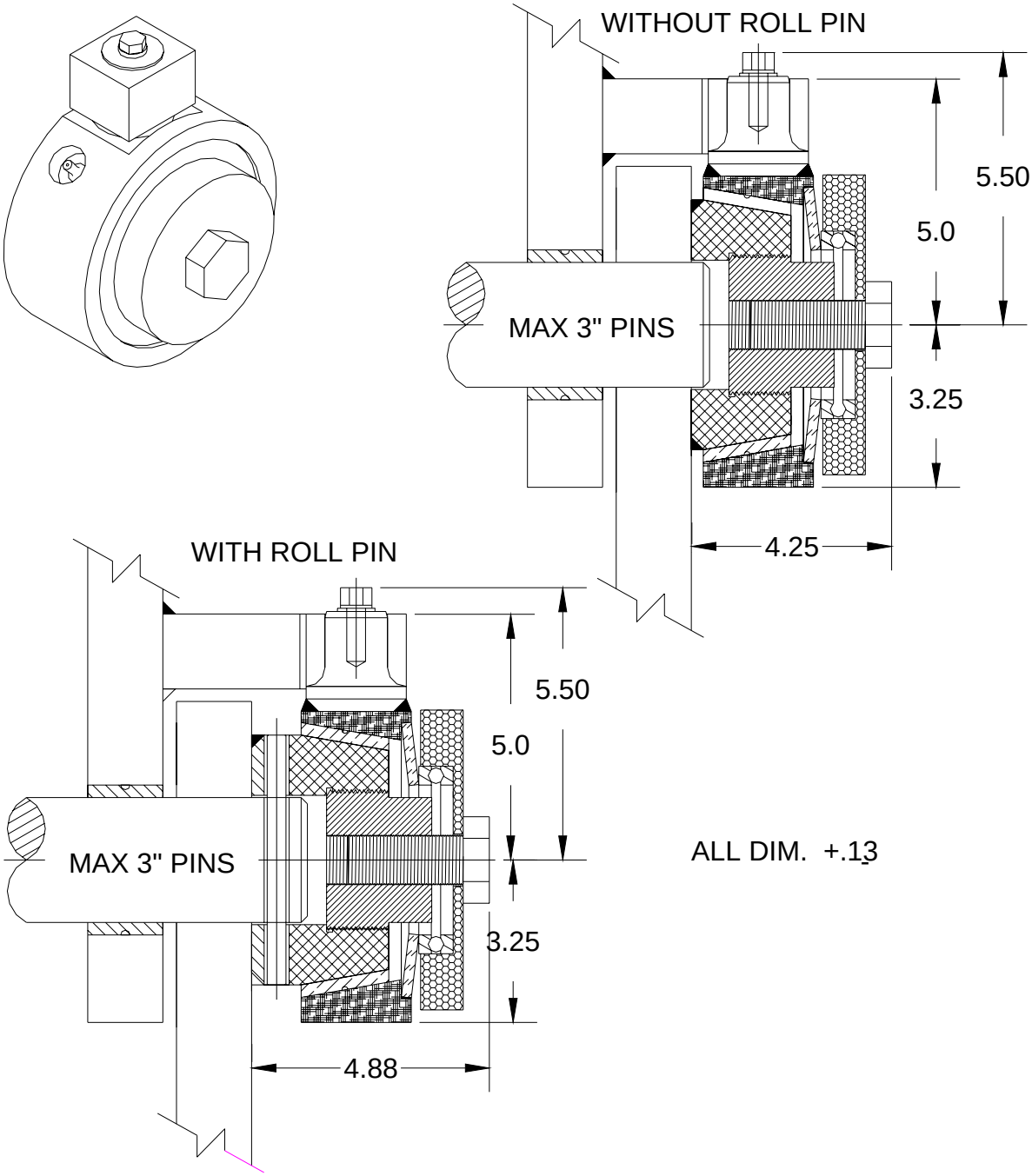
# EXTERNAL MOUNT

SNUBBER ASSEMBLY – PARTS



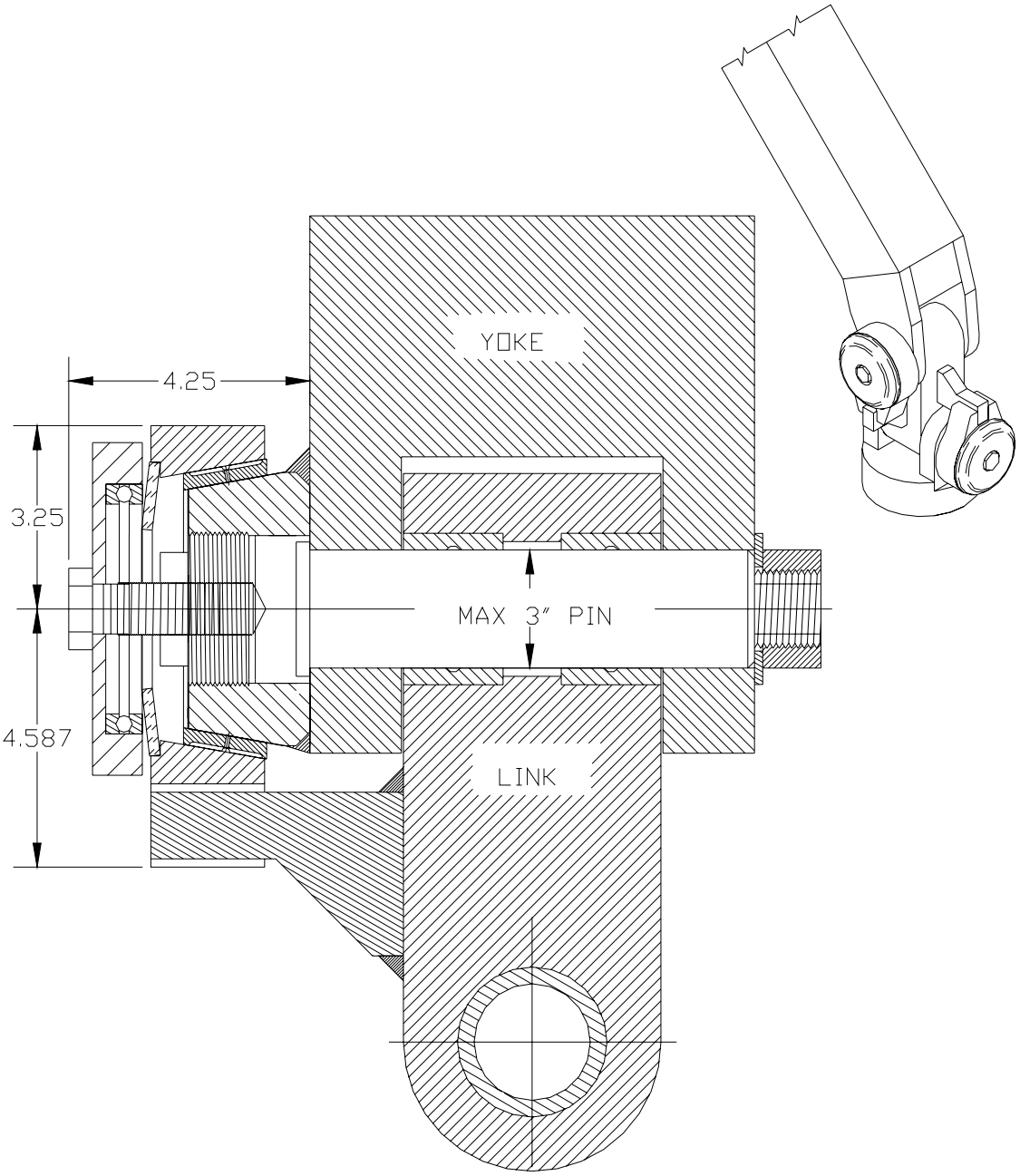
## EXTERNAL MOUNT

**500 SERIES**

## B3500-17,B3500-20,B3500-21

SNUBBER ASSEMBLY – PARTS

SLOT HOUSING



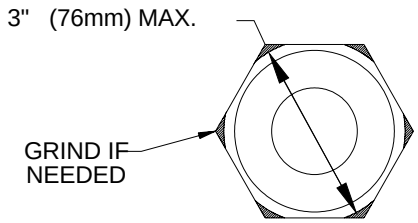
# EXTERNAL MOUNT

MOUNTING AND OPERATIONAL INSTRUCTIONS

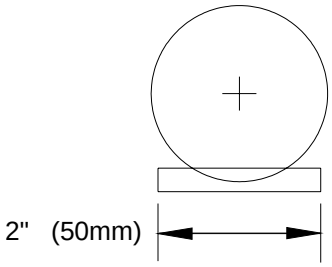
## O.E.M. PINHEAD STYLES

Original pin heads must be smaller than 3 1/8 " (79 mm.) To allow passage of pin through core during attachment dissassembly.

**A)** Hex style pin heads 3 1/8" across corners or larger must have corners of hex ground to 3" (76 mm) or less.

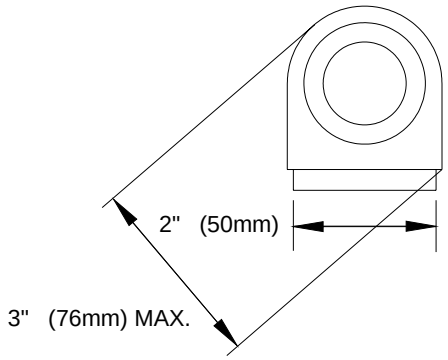



**B)** Pin heads with a milled flat area rest against external keystock to prevent pin from turning during assembly. This keystock must be short enough, 2" (50 mm) maximum, to fit under core when core is welded into position.

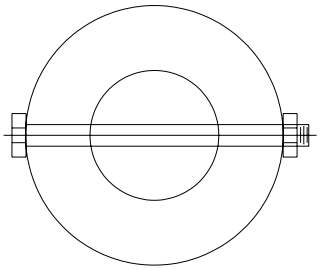


## EXTERNAL MOUNT

**C)** Pinheads with a flat anchor larger than 2 1/2" (63 mm.) can be trimmed and ground. *note* a flat portion must be retained to stop pin from turning during assembly. Keystock stop maximum 2" (50 mm.) long allowing core to be welded into position.




**D)** Pinheads with cross-bolt/boss heads, usually these are only at one end of pin. Mount snubber at opposite end of pin. If required core # B3T-530 can be ordered, cross drilled for 1/2" spirol pin lock.



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**500 SERIES**

# EXTERNAL MOUNT

## MOUNTING AND OPERATIONAL INSTRUCTIONS

WEAR BLOCK

The ***PROLENC®*** snubber is shipped assembled, make note of how it fits together before taking it apart to mount.

1. Remove threaded plug from the center of snubber core.

2. Position the core of the snubber as near to dead center as possible over the pin end, then tack it.*NOTE* pins with hex. head may need corners of hex ground to allow removal of pin.

3. To determine where to mount the retaining brackets depends on the attachment link and the clearance for swing. Bolt on brackets fit in the original location. Weld on brackets should be positioned so that the original degree of swing is not restricted, unless stops are provided.

**IMPORTANT:** At no time should the brackets be use as stops.

4. Place the housing with the wear block over the core and friction sleeve.

5. There must be 3/16” clearance between the top of the housing and the bottom of the bracket.

6. There must be 1/2” from the inside of the slot end on the bracket and the wear block.

7. When these distances have been determined, tack the brackets into position and weld. Remove the housing, cover the friction sleeve, and weld. If the bracket or core are welded to cast, welding rod UTP 85 fn has proven very effective after preheating the weld area. For cast steel, low hydrogen 7018 or ARCTEC 223xc welding rod is recommended.

8. Apply a thin coat of LOCTITE 620 (or equivalent) to core and inner sleeve surface before installation of sleeve.

9. Install core plug. Install friction sleeve with sleeve retainer, between core and inner surface of sleeve. Apply a liberal amount of Moly based grease to outer friction sleeve surface, B3T-390G sleeve only, then mount outer housing.

10. **Pack Bearing with Grease---** and install end-cap and bolt.

## EXTERNAL MOUNT

11. To set the tension, simply tighten end-cap bolt.

**IMPORTANT:** Do not apply so much pressure on the spring washer that it presses it flat. This will result in the grapple being too stiff, and if the spring washer is over-centered, the tension will be lost.

12. To replace the friction sleeve, remove the end-cap bolt, bearing, and housing. Pry off friction sleeve using a bar on each side. Heat may be required to loosen sleeve retainer. To install a new friction sleeve, push on by hand.

13. Wear block may be rotated 90 degrees, to achieve a new wear surface before replacement is necessary. **IMPORTANT:** *** Turn or Replace wear block once .060" wear clearance has occured between wear block and anchor bracket***

**IMPORTANT:** All service points on the snubber should be greased every 10 hours. Friction Sleeve: grease B3T-390G only.

Greases with 5% - 6% MOLY are recommended:
Military Spec. MIL G23549C
-Lubriplate 176 $5^0$F./-$15^0$C.
-Lubriplate 3000 $15^0$F./-$9.5^0$C.
-Lubriplate 3000W -$30^0$F./-$34.5^0$C.
-OR EQUIVALENT

***PROLENC*** ®
**MANUFACTURING INC.**

**500 SERIES**

# EXTERNAL MOUNT

## MOUNTING AND OPERATIONAL INSTRUCTIONS

KIT # B3500-17 -- UNIVERSAL SLOT

The ***PROLENC***® snubber is shipped assembled, make note of how it fits together before taking it apart to mount.

1. Remove threaded plug from the center of snubber core.

2. Position the core of the snubber as near to dead center as possible over the pin end, then tack it.*NOTE* pins with hex. head may need corners of hex. Ground to allow removal of pin.

3. To determine where to mount the retaining anchors depends on the attachment link and the clearance for swing. Anchor plates must be cut from 1” QT100 plate and positioned so that the original degree of swing is not restricted, unless stops are provided.

**IMPORTANT:** At no time should the anchors be use as stops.

4. Place the slotted housing over the core and friction sleeve.

5. Position the anchor so there is minimum 3/16” clearance between the bottom of the slot in the housing and the anchor.

6. When these distances have been determined, tack the anchors into position and weld. If required for welding clearance access remove the housing, cover the friction sleeve, and weld. If the anchor or core are welded to cast, welding rod UTP 85 fn has proven very effective after preheating the weld area. For cast steel, low hydrogen 7018 or ARCTEC 223xc welding rod is recommended.

7. Apply a thin coat of loctite 620 , or equivalent, to core and inner sleeve surface before installation of sleeve.

8. Install core plug. Apply liberal amount of Moly based grease to outer friction sleeve surface (B3T-390G sleeve only), then mount outer housing.

9. **Pack Bearing with Grease---** and install end-cap and bolt.

## EXTERNAL MOUNT

10. To set the tension, simply tighten end-cap bolt.

**IMPORTANT:** Do not apply so much pressure on the spring washer that it presses it flat. This will result in the grapple being too stiff, and if the spring washer is over-centered, the tension will be lost.

11. To replace the friction sleeve, remove the end-cap bolt, bearing, and housing. Pry off friction sleeve using a bar on each side. Heat may be required to loosen sleeve retainer. To install a new friction sleeve, Apply loctite 620 to core, push sleeve on by hand.

**IMPORTANT:** All service points on the snubber should be greased every 10 hours. (friction sleeve: grease B3T-390G only).

Greases with 5% - 6% MOLY are recommended:
Military Spec. MIL G23549C
-Lubriplate 176 $5^0$F./-$15^0$C.
-Lubriplate 3000 $15^0$F./-$9.5^0$C.
-Lubriplate 3000w -$30^0$F./-$34.5^0$C.
-OR EQUIVALENT

**PROLENC ®**
**MANUFACTURING INC.**

**500 SERIES**

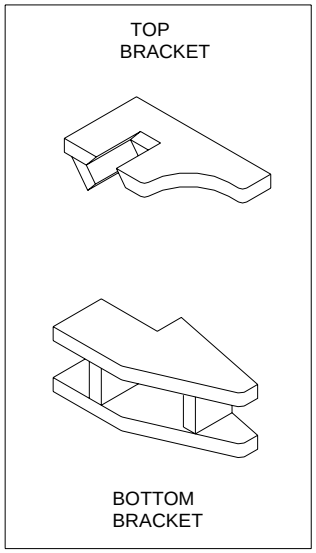
## EXTERNAL MOUNT

SNUBBER ASSEMBLY – PARTS

JOHN DEERE

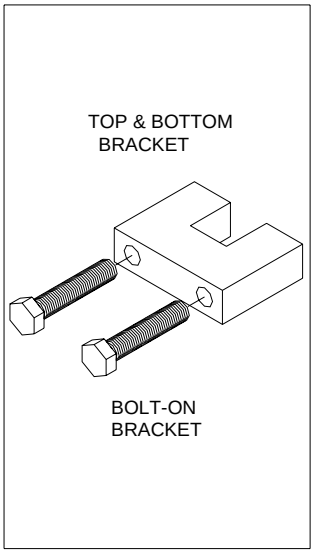
### JD640 - JD740

### FABRICATED TONGS




| | REQ. |
|---|---|
| KIT No. B3500-1 | 1 |
| FORE AND AFT SWING BRACKET B3T-125 | 1 |
| KIT No. B3500-2 | 1 |
| SIDE TO SIDE SWING BRACKET B3T-210 | 1 |

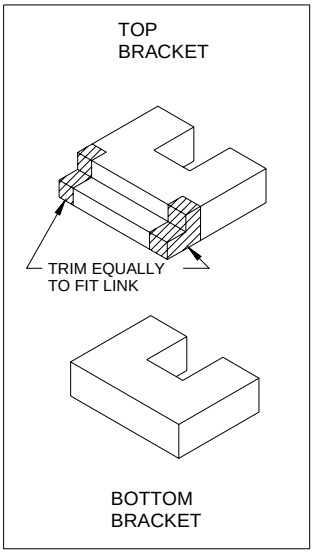
### JD548E - JD648E - JD748E




| | REQ. |
|---|---|
| KIT No. B3500-5 | 2 |
| TOP & BOTTOM SWING BRACKET B3T-205 | 1 |
| BOLT M16x120 | 2 |

### JD548D - JD648D - JD740A

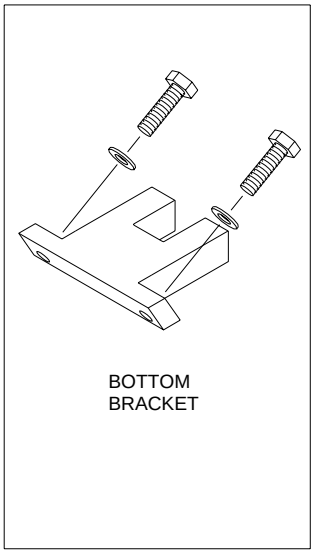
### CAST TONGS




| | REQ. |
|---|---|
| KIT No. B3500-3 | 1 |
| FORE AND AFT SWING BRACKET B3T-185 | 1 |
| KIT No. B3500-4 | 1 |
| SIDE TO SIDE SWING BRACKET B3T-380 | 1 |

### JD548G - JD648G - JD748G

### SHOCK ABSORBER REPLACEMENT




| | REQ. |
|---|---|
| KIT No. B3500-6 | 1 |
| SIDE TO SIDE SWING BRACKET B3T-545 | 1 |
| BOLT B3T-555 | 2 |
| LOCK WASHER B3T-560 | 2 |

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**500 SERIES**

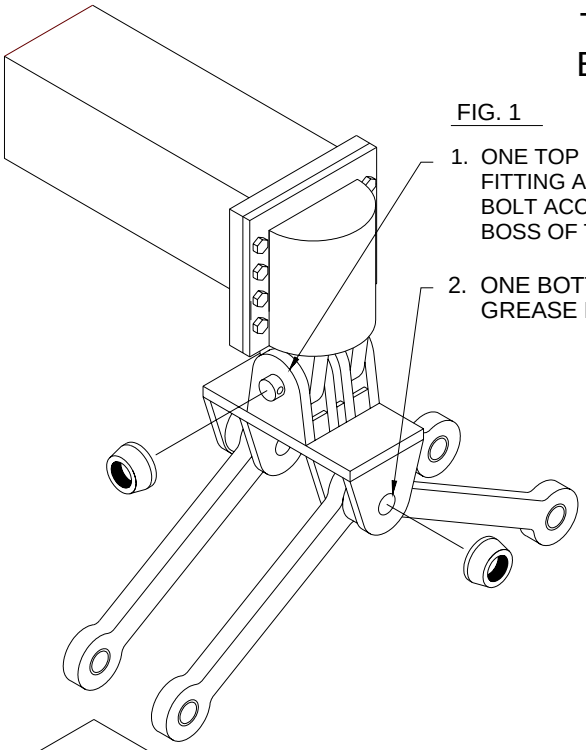
## EXTERNAL MOUNT

SNUBBER ASSEMBLY MOUNTING

MODEL-----JD640 – JD740 FABRICATED TONGS

TOP PIN KIT No. B3500-1
BOTTOM PIN KIT No. B3500-2

FIG. 1



1. ONE TOP PIN MUST BE REPLACED WITH GREASE FITTING AT OPPOSITE END OF PIN. A KEEPER BOLT ACCESS MUST BE DRILLED THROUGH PIN BOSS OF THE LINK AND THE PIN.

2. ONE BOTTOM PIN MUST BE REPLACED WITH THE GREASE FITTING ON THE OPPOSITE END OF THE PIN.

FIG. 2

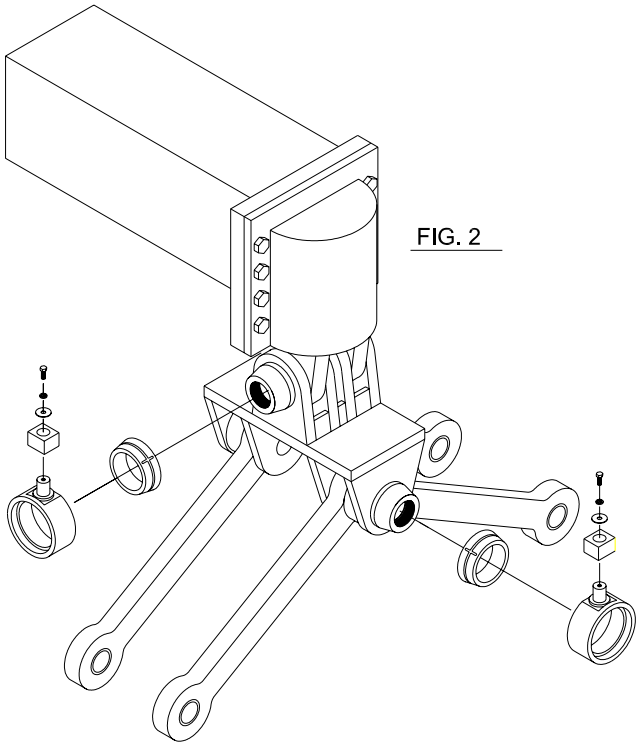
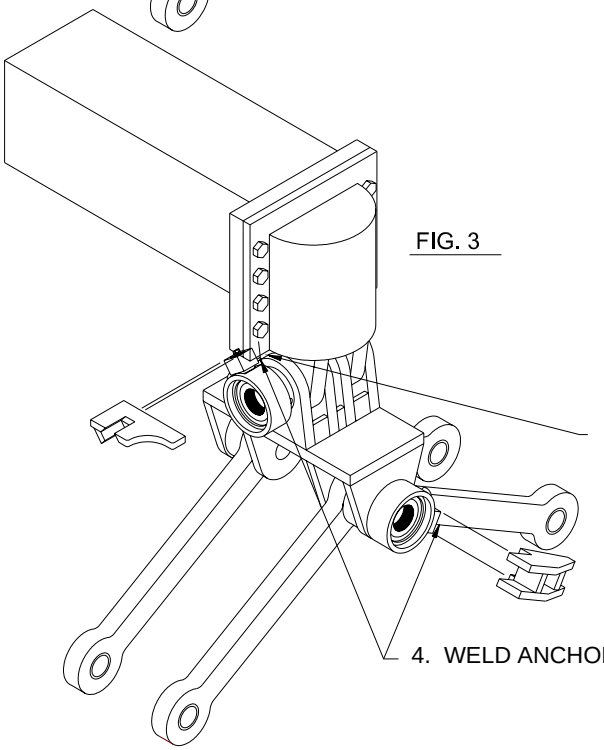


FIG. 3



3. SOME MATERIAL MAY HAVE TO BE REMOVED FROM THE BOTTOM OF THE BOOM. TO ALLOW THE BRACKET TO PASS COMPLETE ROTATION OF THE GRAPPLE.

4. WELD ANCHORS

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**500 SERIES**

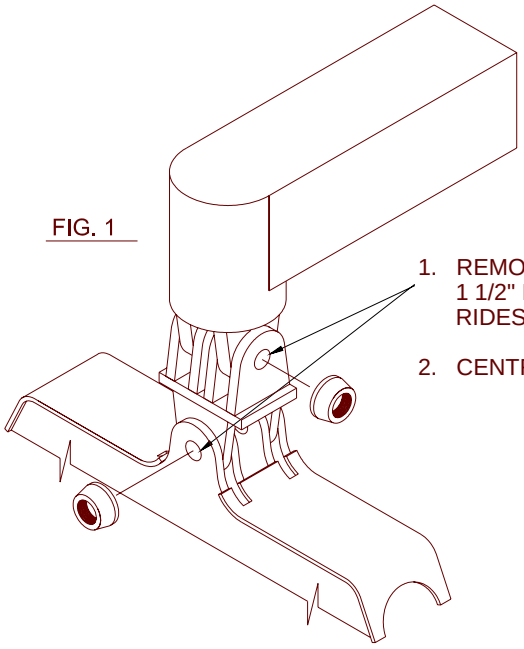
## EXTERNAL MOUNT

SNUBBER ASSEMBLY MOUNTING

MODEL-----JD548D – JD648D – JD740A CAST TONGS

TOP PIN KIT No. B3500-3
BOTTOM PIN KIT No. B3500-4

FIG. 1



1. REMOVE ALL JD SNUBBER PARTS. CUT THE 1 1/2" PART OF THE PIN THAT THE SNUBBER RIDES ON FLUSH WITH YOKE AND FRAME.
2. CENTRE CORE AROUND PIN AND WELD.

FIG. 2

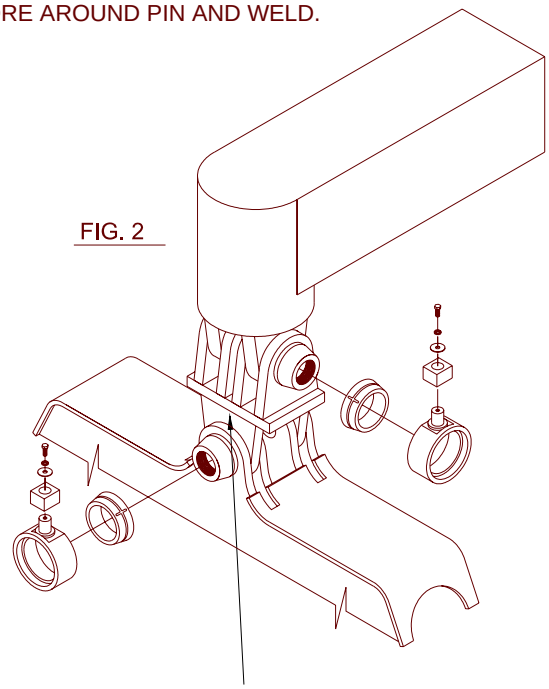
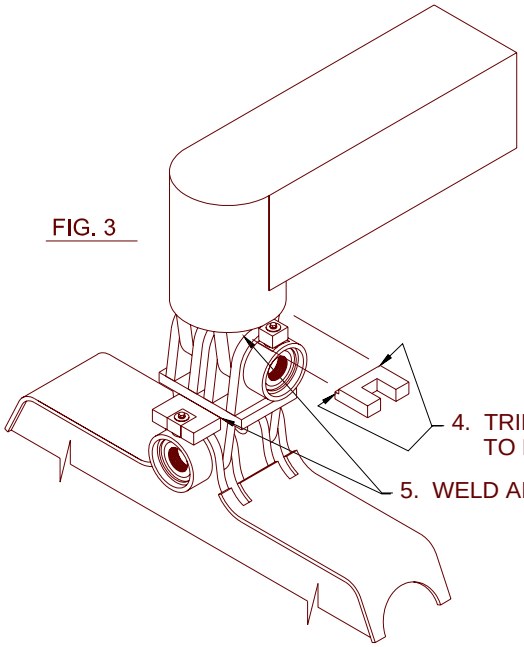


FIG. 3



3. CUT OFF ORIGINAL JD ANCHOR BRACKET MOULDED TO LINK FOR BOTTOM SNUBBER
4. TRIM CORNERS FOR BRACKET TO FIT INTO LINK
5. WELD ANCHORS

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**MANUFACTURING INC.**

**500 SERIES**

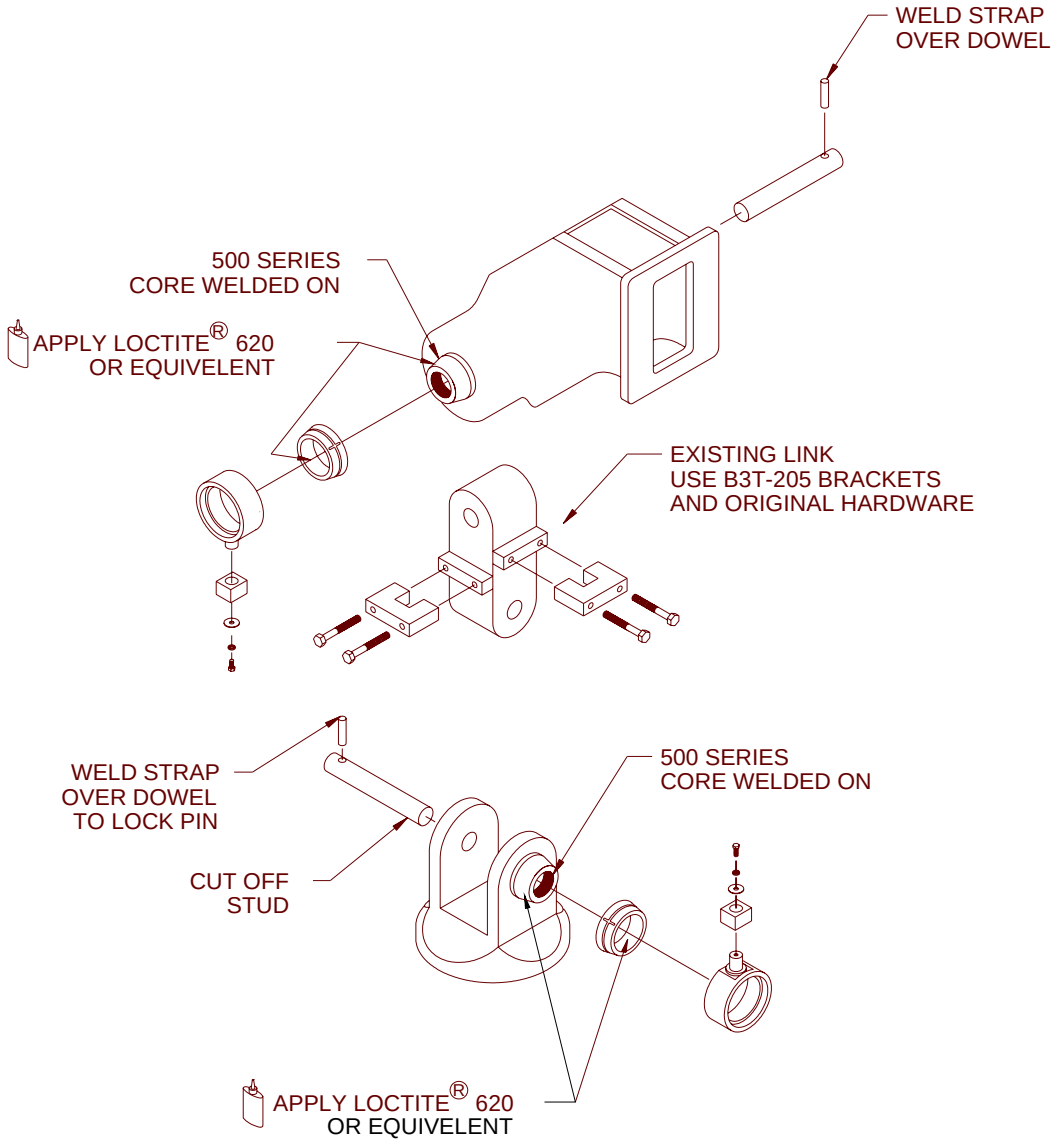
## EXTERNAL MOUNT

SNUBBER ASSEMBLY MOUNTING

MODELS----JD548E – JD648E – JD748E

TOP AND BOTTOM PINS
KIT No. B3500-5 2 REQUIRED PER MACHINE

1. REMOVE ALL JD ORIGINAL PARTS. CUT THE END OF THE PIN THE SNUBBER RIDES ON.
2. A RETAINING TAB MUST BE WELDED OVER THE PIN RETAINING DOWEL TO LOCK PIN INTO POSITION.
3. REPLACEMENT BOLT ON BRACKETS ARE SUPPLIED.
4. RE-USE ORIGINAL MOUNTING HARDWARE.



**PROLENC ®**
**MANUFACTURING INC.**

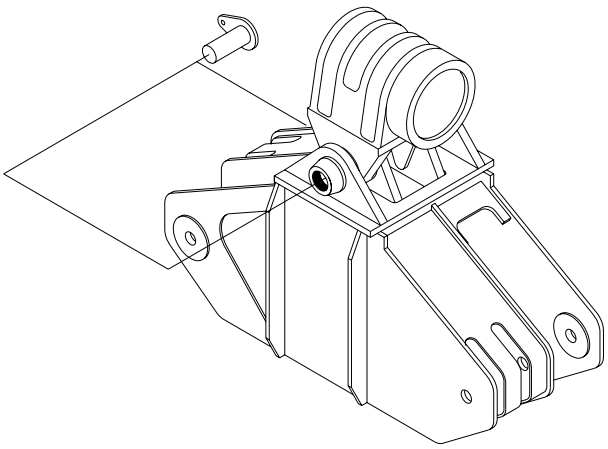
**500 SERIES**

## EXTERNAL MOUNT

SNUBBER ASSEMBLY MOUNTING

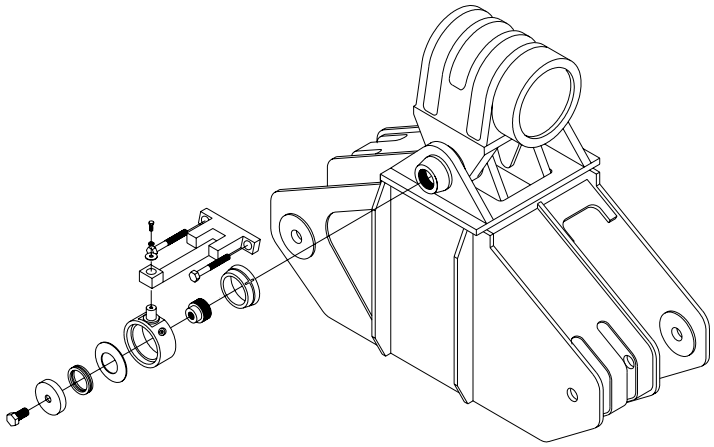
JOHN DEERE – G SERIES

SNUBBER KIT # B3500-6

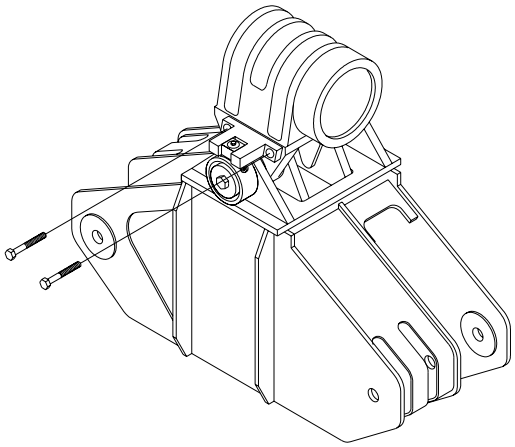


1. Remove existing shock absorber.

2. Remove 1 pin – grapple frame to grapple yoke. Reinstall pin from inside of grapple frame to grapple yoke. Cut the pin anchor bolt head and install as anchor stud. Weld to grapple frame and lock pin in place.



3. Disassemble snubber. Center core around pin hole of grapple frame and tack into position. Preheat core. Protect core from weld splatter and weld core to frame. Minimum 2 full passes using 7018 welding rod or equivalent.



4. Reassemble snubber. Position anchor bracket provided over the anchor block allowing 1/2” clearance between wear block and inside of slot on the bracket. Mark bolt hole positions on grapple yoke. Drill and tap yoke to accept 3/4” N.C. bolts provided. Reinstall anchor and bolt into position.

**PROLENC ®**
**MANUFACTURING INC.**

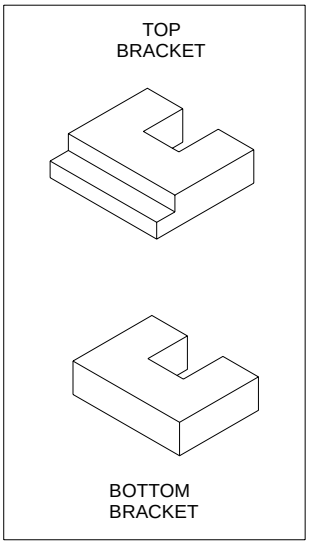
**500 SERIES**

## EXTERNAL MOUNT

SNUBBER ASSEMBLY – PARTS

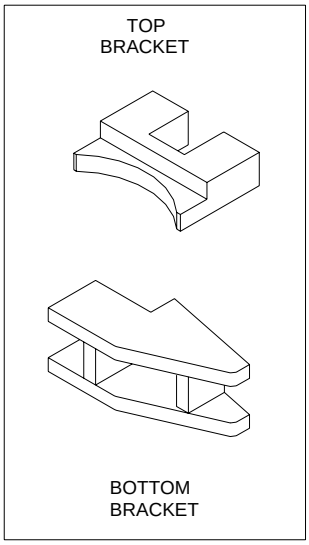
TIMBERJACK

### TJ380 - TJ450 (PRIOR TO 1987)
### 105" TIMBERJACK GRAPPLE



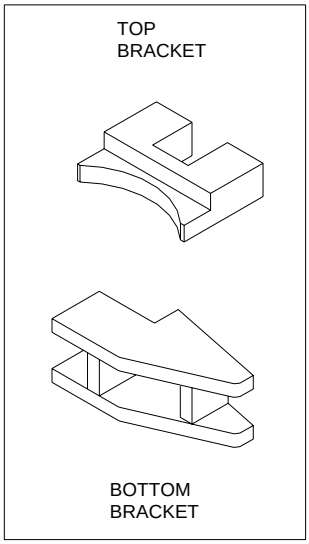

| | REQ. |
|---|---|
| KIT No. B3500-7 | 1 |
| FORE AND AFT SWING BRACKET B3T-345 | 1 |
| KIT No. B3500-3 | 1 |
| SIDE TO SIDE SWING BRACKET B3T-185 | 1 |

### TJ480 - TJ520 (PRIOR TO 1987)
### GRAPPLE WITHOUT SNUBBER



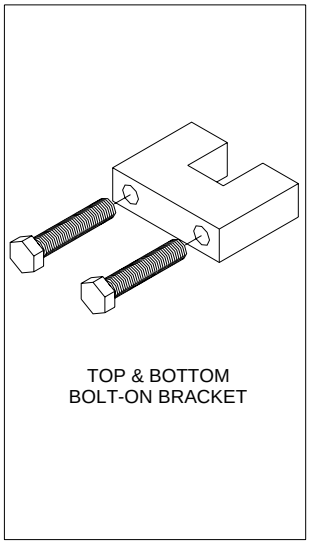

| | REQ. |
|---|---|
| KIT No. B3500-7 | 1 |
| FORE AND AFT SWING BRACKET B3T-345 | 1 |
| KIT No. B3500-18 | 1 |
| SIDE TO SIDE SWING BRACKET B3T-355 | 1 |

### TJ480 - TJ520 (PRIOR TO 1987)
### OLD STYLE BENCO SNUBBER




| | REQ. |
|---|---|
| KIT No. B3500-7 | 1 |
| FORE AND AFT SWING BRACKET B3T-345 | 1 |
| KIT No. B3500-18 | 1 |
| SIDE TO SIDE SWING BRACKET B3T-355 | 1 |

### ALL MODELS (1987 TO PRESENT)
### ORIG. SNUB. (BOLT ON BRACKETS)




| | REQ. |
|---|---|
| KIT No. B3500-8 | 1 |
| TOP & BOTTOM SWING BRACKET B3T-360 | 1 |
| BOLT 5/8" X 5-3/4" NC | 2 |

## EXTERNAL MOUNT

SNUBBER ASSEMBLY – PARTS

## TIMBERJACK MODELS

105” TIMBERJACK GRAPPLE. FITS MODELS 380 – 450 (PRIOR TO 1987 production)

Use this method, then follow standard instructions.
1. Cut the threaded end of the pin.
2. Weld a retainer over the dowel to stop the pin from coming out.
3. Plug the grease hole on the threaded end of the pin.
4. Drill a new grease hole on the dowel end of the pin.

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USE WHEN MOUNTING A SERIES 500 ***PROLENC***® SNUBBER ON A TIMBERJACK GRAPPLE WITHOUT SNUBBER. FITS MODELS 480 – 520 (PRIOR TO 1987 production)

Use this method, then follow standard instructions.
1. Cut the threaded end of the pin.
2. Weld a retainer over the dowel to stop the pin from coming out.
3. Plug the grease hole on the threaded end of the pin.
4. Drill a new grease hole on the dowel end of the pin.

**REQ.** TOP SNUBBER B3500-7 BOTTOM SNUBBER B3500-18

---

USE WHEN MOUNTING A SERIES 500 ***PROLENC***® SNUBBER ON A TIMBERJACK GRAPPLE WITH AN EXISTING OLD STYLE BENCO SNUBBER. FITS MODELS 480 – 520 (PRIOR TO 1987 production)

Use this method, then follow standard instructions.
1. Cut the 2” part of the pin that the snubber rides on.
2. Weld a retainer over the dowel to stop the pin from coming out.

**REQ.** TOP SNUBBER B3500-7 BOTTOM SNUBBER B3500-18

---

USE WHEN MOUNTING A SERIES 500 ***PROLENC***® SNUBBER ON A TIMBERJACK GRAPPLE THAT HAS A FACTORY SNUBBER WITH BOLT ON BRACKETS.
**Fits ALL** T/J MODELS --1987 TO 2001-- Prior to John Deere production grapples.

Use this method, then follow standard instructions.
1. Cut the 2” part of the pin that the snubber rides on.
2. Switch to B3T-360 brackets which are supplied with the snubber.

**REQ.** TOP SNUBBER B3500-8 BOTTOM SNUBBER B3500-8

# EXTERNAL MOUNT

## SNUBBER ASSEMBLY – PARTS

MODELS ---- TJ480 – TJ520 (PRIOR TO 1987)
TIMBERJACK ALL MODELS --1987 TO 2001

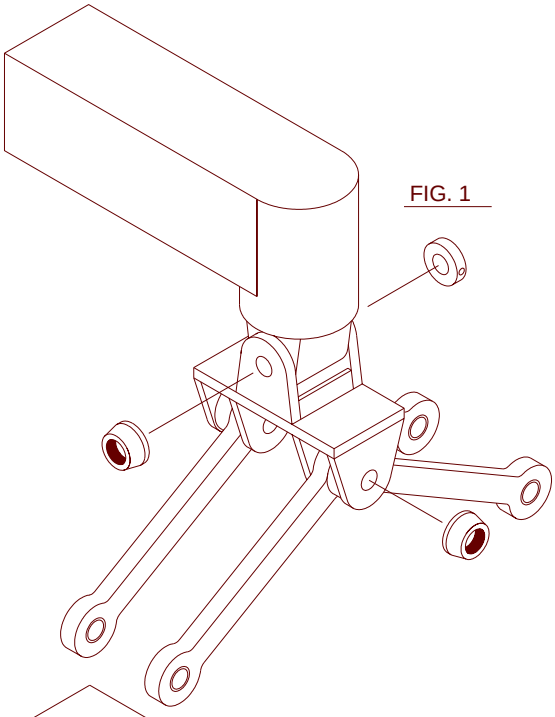

FIG. 1

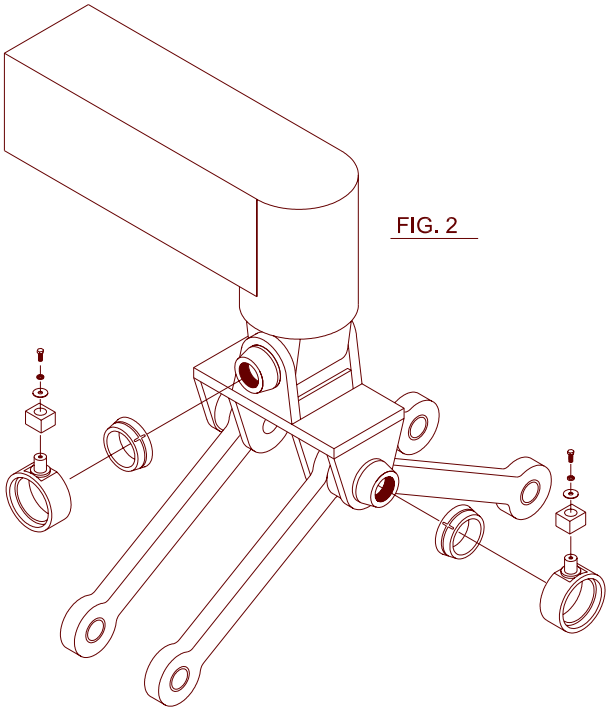

FIG. 2

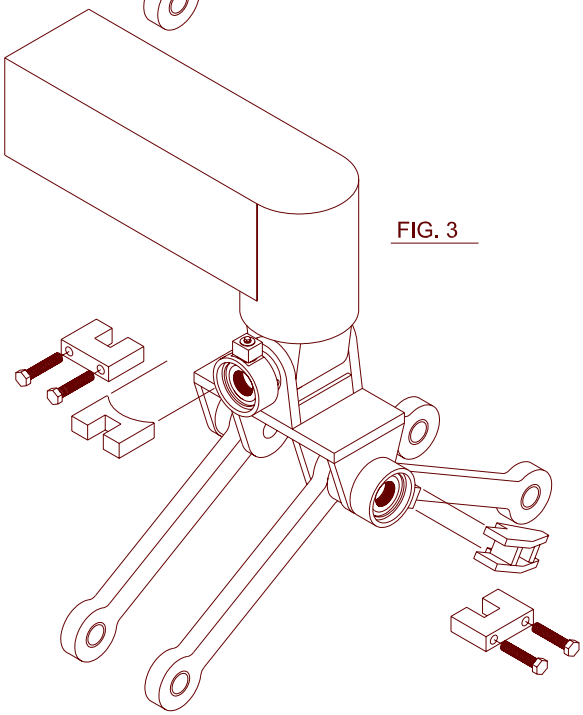

FIG. 3

# EXTERNAL MOUNT

## SNUBBER ASSEMBLY – PARTS

MODELS ---- RANGER 666 – 667, C SERIES, EARLY D SERIES  1-3/4” PINS

### TOP & BOTTOM
### KIT # B3500-12  (2 KITS PER MACHINE)

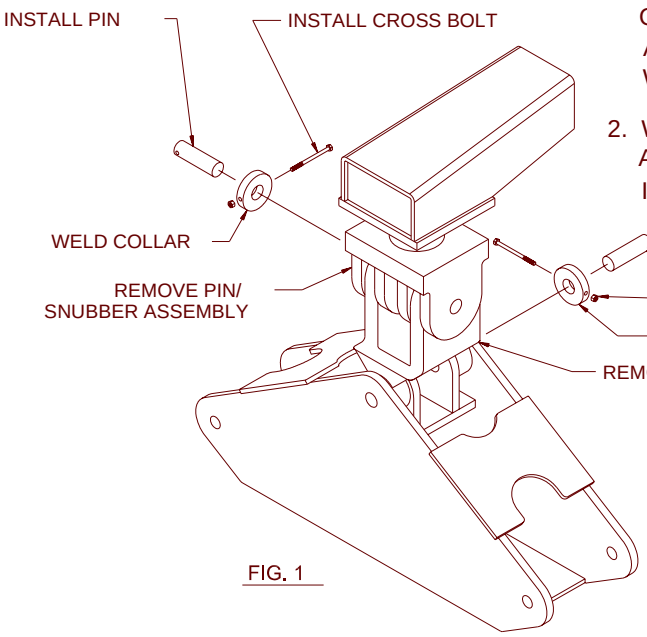


FIG. 1

1. REMOVE ONE TOP AND ONE BOTTOM PIN / SNUBBER ASSEMBLY AND REPLACE WITH NEW PINS SUPPLIED.
2. WELD RETAINING COLLARS AROUND NEW PINS AND INSTALL 1/2" LOCK BOLTS.

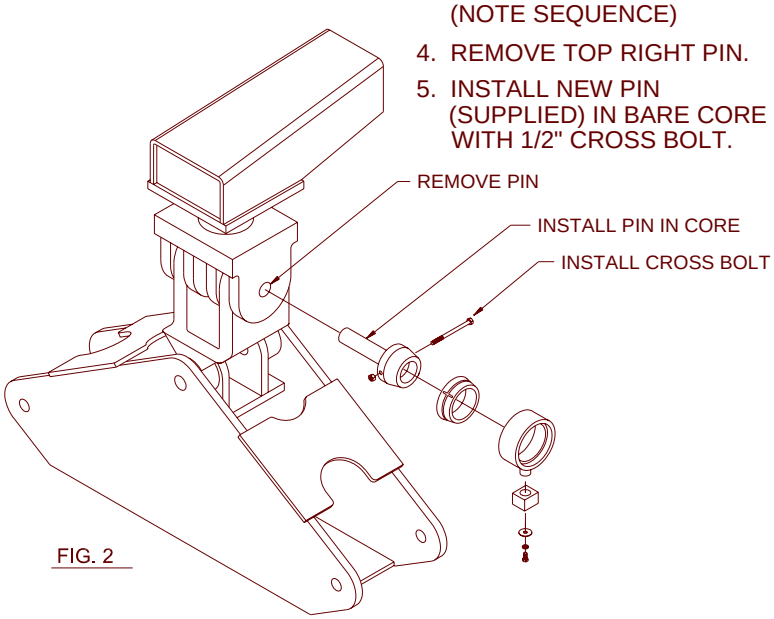


FIG. 2

3. DISASSEMBLE SNUBBER (NOTE SEQUENCE)
4. REMOVE TOP RIGHT PIN.
5. INSTALL NEW PIN (SUPPLIED) IN BARE CORE WITH 1/2" CROSS BOLT.

# EXTERNAL MOUNT

## SNUBBER ASSEMBLY – PARTS

MODELS ---- RANGER 666 – 667, C SERIES, EARLY D SERIES  1-3/4” PINS

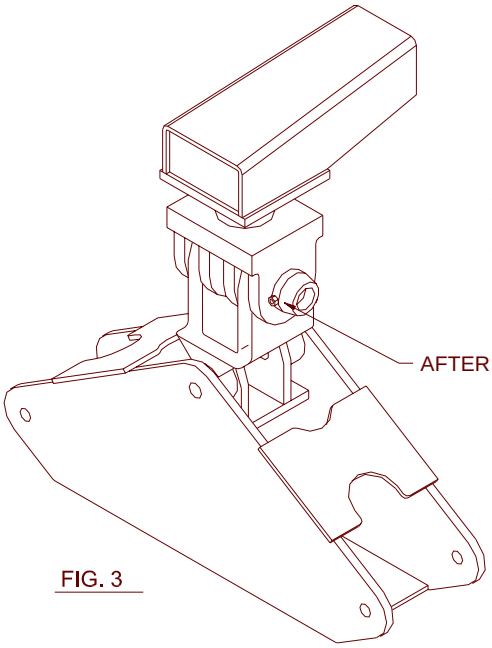


FIG. 3

6. INSTALL PIN IN YOKE BORE AND CENTER CORE AROUND PIN WITH CROSS BOLT IN HORIZONTAL POSITION.
7. TACK CORE TO YOKE (NOTE:  PROTECT CORE FROM WELD SPLATTER)
8. PREHEAT WELD AREA ON YOKE AND WELD CORE TO YOKE (NOTE:  MINIMUM 2 PASSES)
9. REMOVE CROSS BOLT AND REPLACE WITH ROLL PIN SUPPLIED IN KIT.

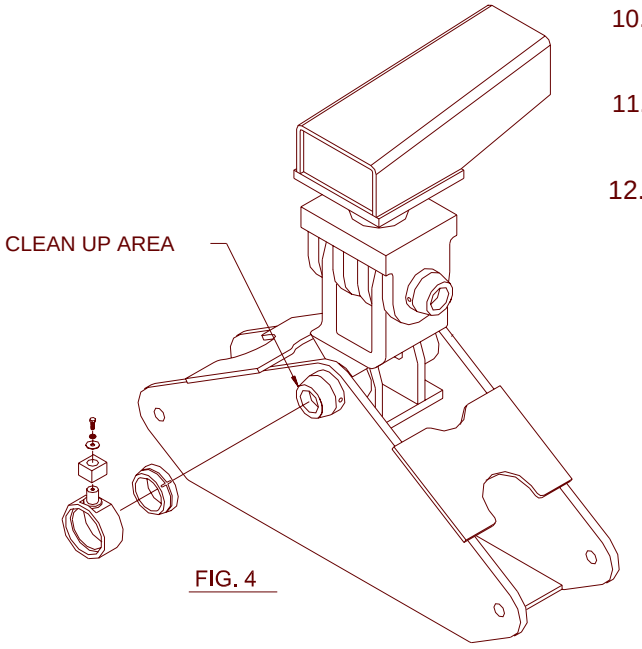


FIG. 4

10. IF REQUIRED, CLEAN UP GRAPPLE FRAME AROUND REAR BOTTOM PIN BOSS AREA TO ACHIEVE A LEVEL WORKING SURFACE.
11. CENTER BARE SNUBBER CORE (WITHOUT CROSS HOLE) AROUND PIN AND TACK WELD.
    (NOTE:  PROTECT CORE FROM WELD SPLATTER)
12. PREHEAT WELD AREA AND WELD CORE TO FRAME MINIMUM 2 PASSES.

# EXTERNAL MOUNT

## SNUBBER ASSEMBLY – PARTS
MODELS ---- RANGER 666 – 667, C SERIES, EARLY D SERIES  1-3/4” PINS

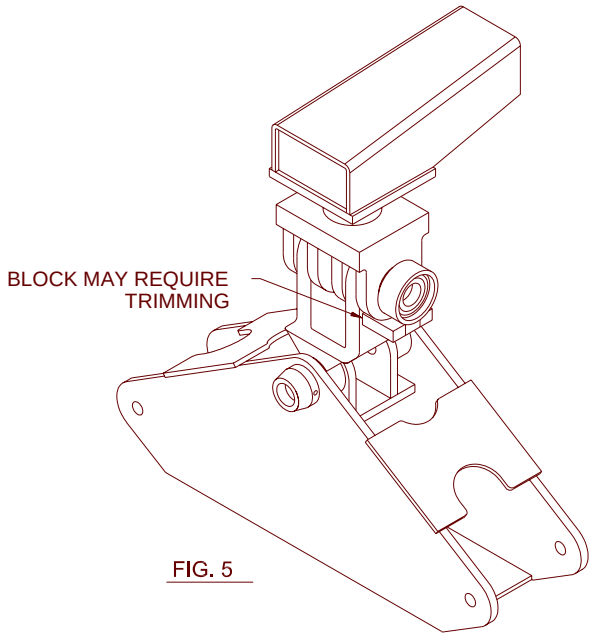


FIG. 5

13. REASSEMBLE TOP SNUBBER WITH OUTER HOUSING WEAR BLOCK FACING DOWN.
14. WELD RETAINING BRACKET TO GRAPPLE YOKE ALLOWING MINIMUM 3/8" BETWEEN WEAR BLOCK AND BOTTOM OF RETAINER SLOT. (NOTE:  BASE OF RETAINER BLOCK MAY REQUIRE TRIMMING TO ACHIEVE CLEARANCE.)

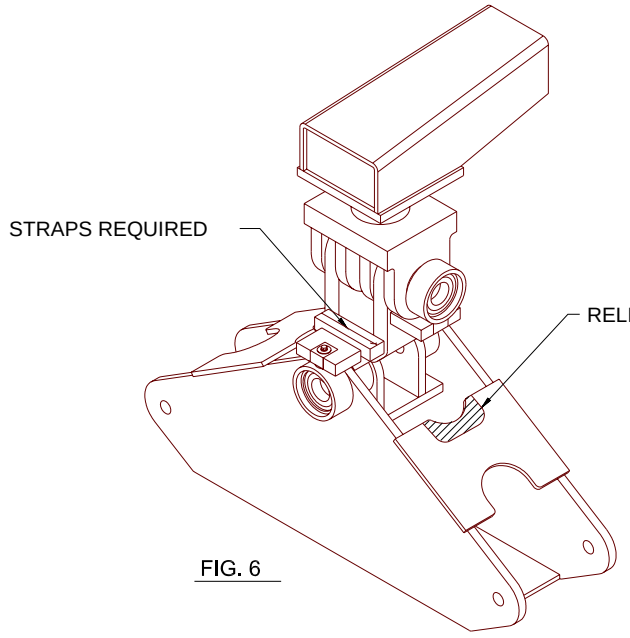


FIG. 6

15. REASSEMBLE BOTTOM SNUBBER WITH OUTER HOUSING WEAR BLOCK FACING UP.
16. WELD RETAINER BLOCK TO GRAPPLE YOKE (NOTE:  STRAPS WILL NEED TO BE WELDED TO THE YOKE FOR RETAINER BASE.  ALLOW 3/8" CLEARANCE BETWEEN WEAR BLOCK AND THE BOTTOM OF THE RETAINER SLOT.
17. IN EXTREME CONDITION, SIDE TO SIDE GRAPPLE SWING MAY ALLOW GRAPPLE FRAME TO CONTACT TOP SNUBBER BRACKET.  RELIEVE TOP OF GRAPPLE FRAME TO ALLOW FREE TRAVEL. REINFORCING OF GRAPPLE FRAME IS RECOMMENDED.

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**500 SERIES**

## EXTERNAL MOUNT

SNUBBER ASSEMBLY – PARTS
MODELS ---- RANGER 666 – 667, LATE D SERIES, SERIES F – G - H  2” PINS

TOP & BOTTOM
KIT # B3500-11  (2 KITS PER MACHINE)

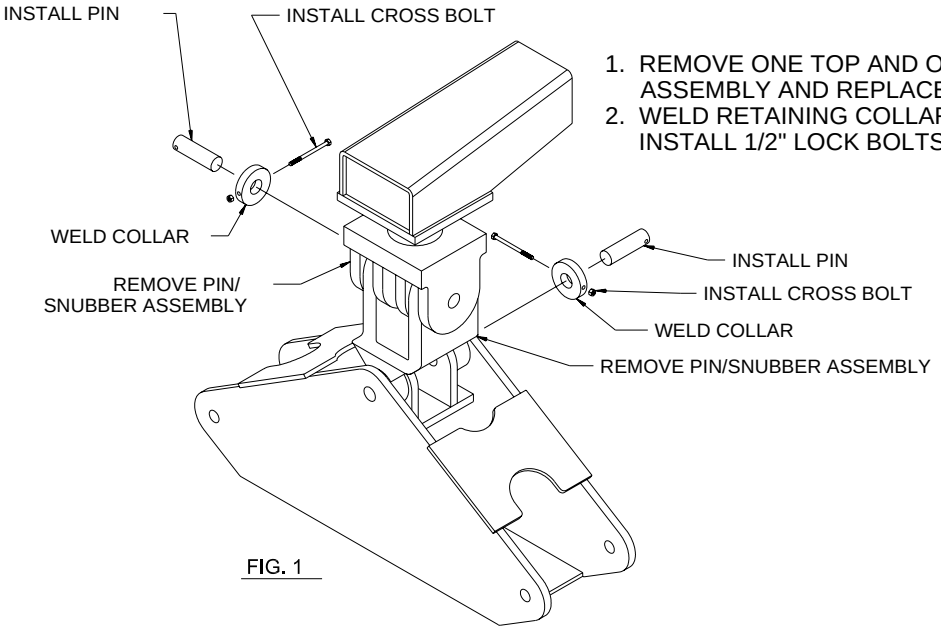
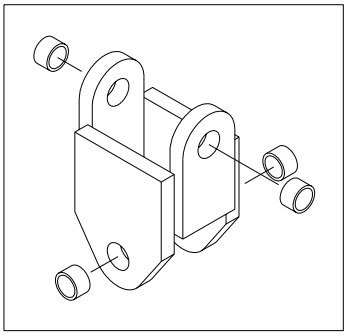


FIG. 1

1. REMOVE ONE TOP AND ONE BOTTOM PIN / SNUBBER ASSEMBLY AND REPLACE WITH NEW PINS SUPPLIED.
2. WELD RETAINING COLLARS AROUND NEW PINS AND INSTALL 1/2" LOCK BOLTS.

OPTIONAL: INSTALL FABRICATED YOKE 2" PINS ONLY



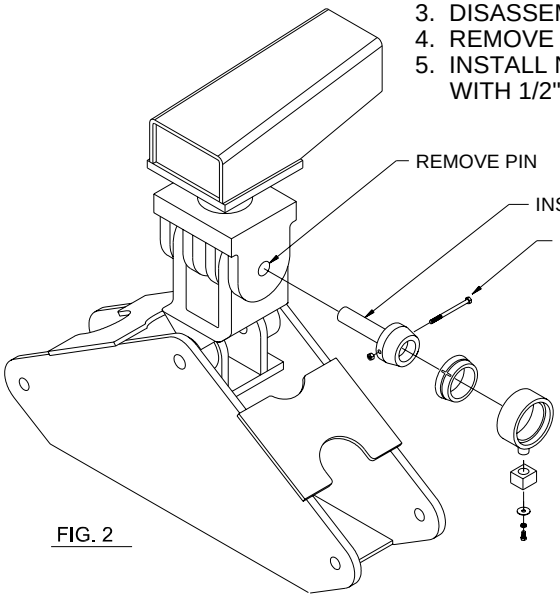


FIG. 2

3. DISASSEMBLE SNUBBER (NOTE SEQUENCE)
4. REMOVE TOP RIGHT PIN.
5. INSTALL NEW PIN (SUPPLIED) IN BARE CORE WITH 1/2" CROSS BOLT.

# EXTERNAL MOUNT

## SNUBBER ASSEMBLY – PARTS

MODELS ---- RANGER 666 – 667, LATE D SERIES, SERIES F – G - H  2” PINS

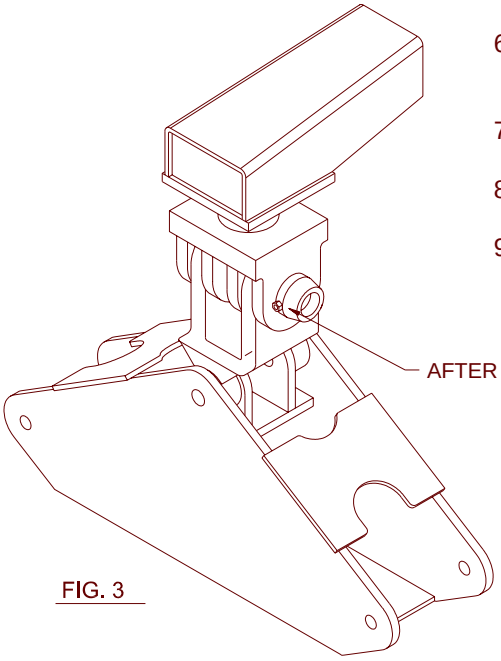



FIG. 3

6. INSTALL PIN IN YOKE BORE AND CENTER CORE AROUND PIN WITH CROSS BOLT IN HORIZONTAL POSITION.
7. TACK CORE TO YOKE (NOTE:  PROTECT CORE FROM WELD SPLATTER)
8. PREHEAT WELD AREA ON YOKE AND WELD CORE TO YOKE (NOTE:  MINIMUM 2 PASSES)
9. REMOVE CROSS BOLT AND REPLACE WITH ROLL PIN SUPPLIED IN KIT.

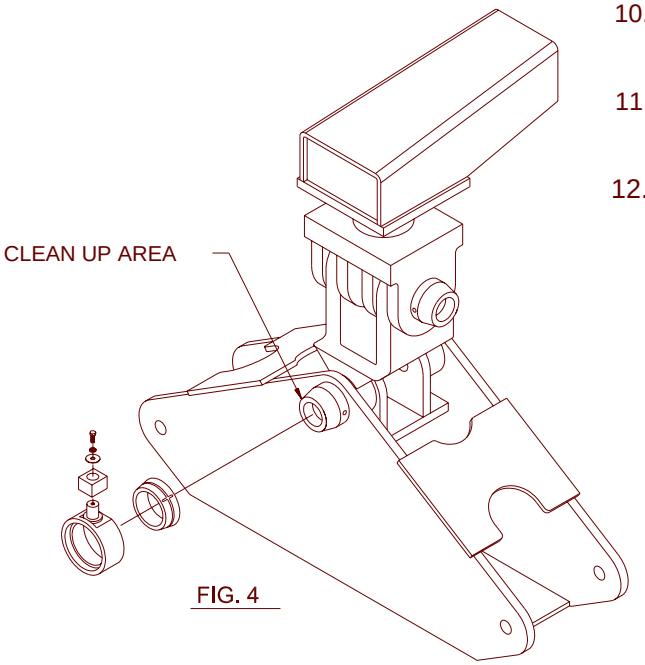



FIG. 4

10. IF REQUIRED, CLEAN UP GRAPPLE FRAME AROUND REAR BOTTOM PIN BOSS AREA TO ACHIEVE A LEVEL WORKING SURFACE.
11. CENTER BARE SNUBBER CORE AROUND PIN AND TACK WELD. (NOTE:  PROTECT CORE FROM WELD SPLATTER)
12. PREHEAT WELD AREA AND WELD CORE TO FRAME MINIMUM 2 PASSES.

# EXTERNAL MOUNT

## SNUBBER ASSEMBLY – PARTS

MODELS ---- RANGER 666 – 667, LATE D SERIES, SERIES F – G - H  2” PINS

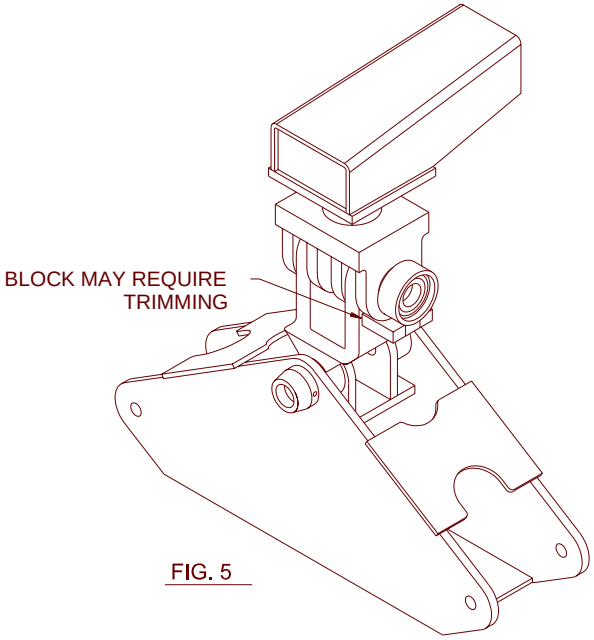



FIG. 5

13. REASSEMBLE TOP SNUBBER WITH OUTER HOUSING WEAR BLOCK FACING DOWN.
14. WELD RETAINING BRACKET TO GRAPPLE YOKE ALLOWING MINIMUM 3/8" BETWEEN WEAR BLOCK AND BOTTOM OF RETAINER SLOT. (NOTE: BASE OF RETAINER BLOCK MAY REQUIRE TRIMMING TO ACHIEVE CLEARANCE.)

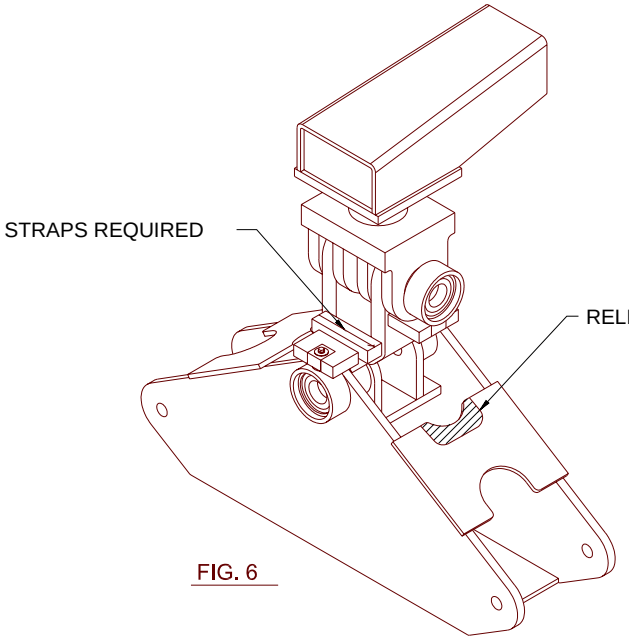



FIG. 6

15. REASSEMBLE BOTTOM SNUBBER WITH OUTER HOUSING WEAR BLOCK FACING UP.
16. WELD RETAINER BLOCK TO GRAPPLE YOKE (NOTE: STRAPS WILL NEED TO BE WELDED TO THE YOKE FOR RETAINER BASE. ALLOW 3/8" CLEARANCE BETWEEN WEAR BLOCK AND THE BOTTOM OF THE RETAINER SLOT.
17. IN EXTREME CONDITION, SIDE TO SIDE GRAPPLE SWING MAY ALLOW GRAPPLE FRAME TO CONTACT TOP SNUBBER BRACKET. RELIEVE TOP OF GRAPPLE FRAME TO ALLOW FREE TRAVEL. REINFORCING OF GRAPPLE FRAME IS RECOMMENDED.
18. OPTION TO STEP 17, WELD STOPS ON GRAPPLE FRAME. BENEATH RETAINING BLOCK TO LIMIT FRAME SWING.

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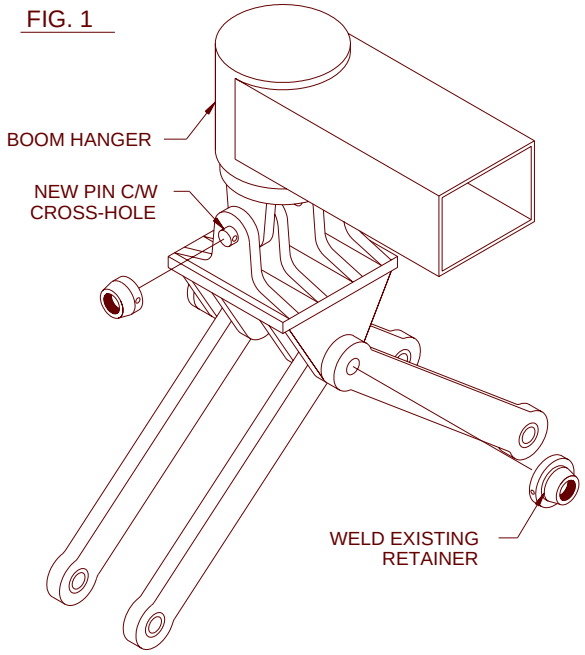
## EXTERNAL MOUNT

SNUBBER ASSEMBLY – PARTS

MODELS ---- 668D – 668F

### TOP PIN KIT # B3500-13
### BOTTOM PIN KIT # B3500-9

FIG. 1




TOP BRAKE

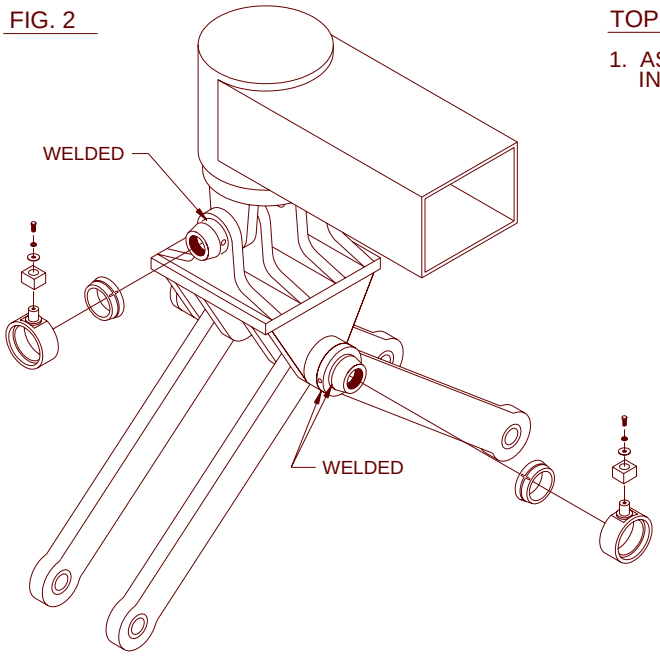
1. TOP CORE SUPPLIED WITH CROSS HOLE PIN RETENTION.
2. A NEW PIN MUST BE MADE TO FIT IN THE CORE WITH THE ROLL PIN.

   SUGGESTED: FOR THE NEW TOP PIN USE A STOCK BOTTOM PIN AND CUT OFF THE EXCESS LENGTH. THE NEW PIN LENGTH IS 5-1/2".
3. INSTALL PIN IN THE CORE. INSERT THE ROLL PIN. INSTALL THE PIN IN THE YOKE BORES. CENTER CORE ON PIN AND WELD CORE TO THE YOKE USING STANDARD INSTRUCTIONS.

BOTTOM BRAKE

1. THE PIN RETAINING COLLAR ON THE OUTER LINK ARM IS WELDED TO THE CORE THEN THE LINK ARM. THE BOTTOM PIN CAN BE RE-USED OR REPLACED IF WORN.

FIG. 2




TOP / BOTTOM BRAKE

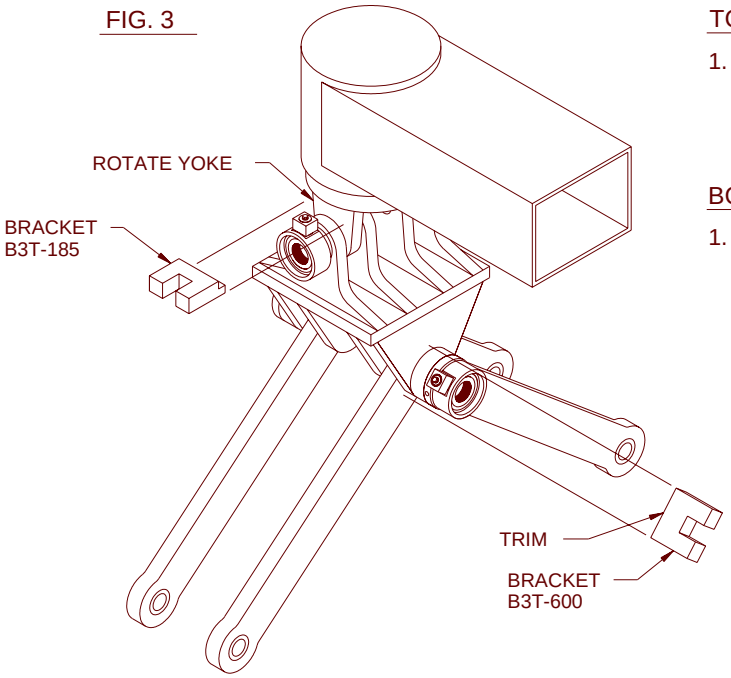
1. ASSEMBLE BOTH BRAKES AS PER STANDARD INSTRUCTIONS.

# EXTERNAL MOUNT

## SNUBBER ASSEMBLY – PARTS

MODELS ---- 668D – 668F

FIG. 3



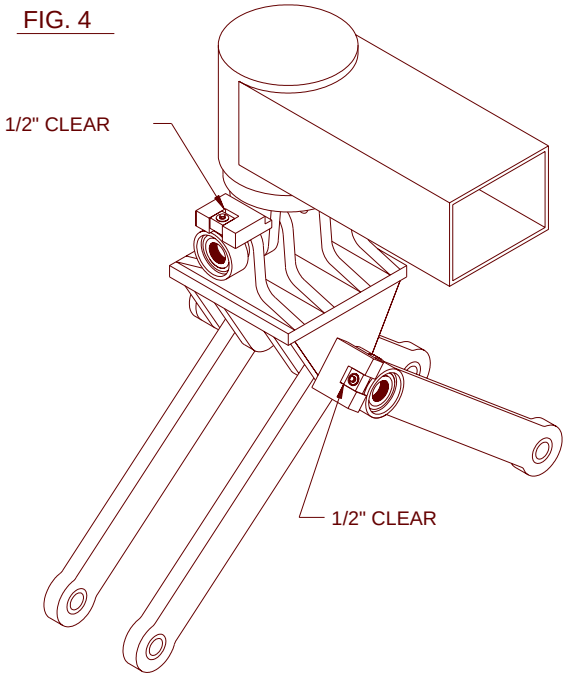

### TOP BRACKET

1. TOP BRACKET IS A B3T-185, WELD BRACKET TO ROTATE YOKE.
   NOTE: ALLOW 1/2" CLEARANCE BETWEEN WEAR BLOCK AND INSIDE OF SLOT.

### BOTTOM BRACKET

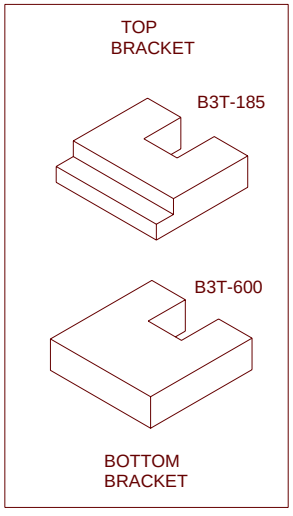
1. BOTTOM BRACKET IS A B3T-600. THE BOTTOM BRACKET WILL HAVE TO BE TRIMMED TO ALLOW 1/2" CLEARANCE BETWEEN REAR BLOCK AND INSIDE OF SLOT. WELD BRACKET AT SAME ANGLE AS THE LINK ARM THAT THE CORE IS WELDED TO. THIS WILL ALLOW FOR FULL SWING OF THE GRAPPLE.

FIG. 4



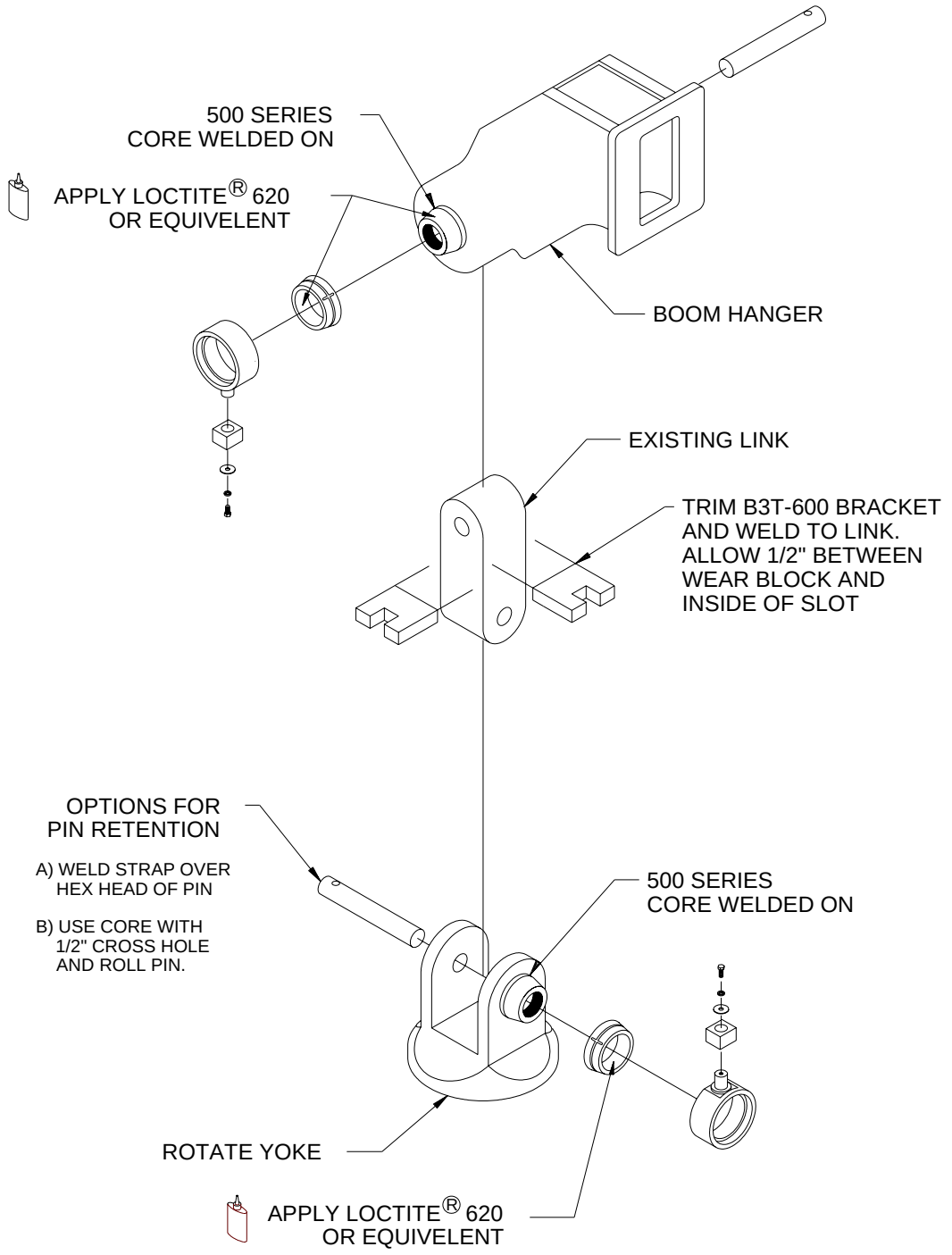

### NOTE:

USE STANDARD INSTRUCTIONS PROVIDED TO WELD BRACKETS AND CORES.



# EXTERNAL MOUNT

## SNUBBER ASSEMBLY
## UNIVERSAL MOUNT



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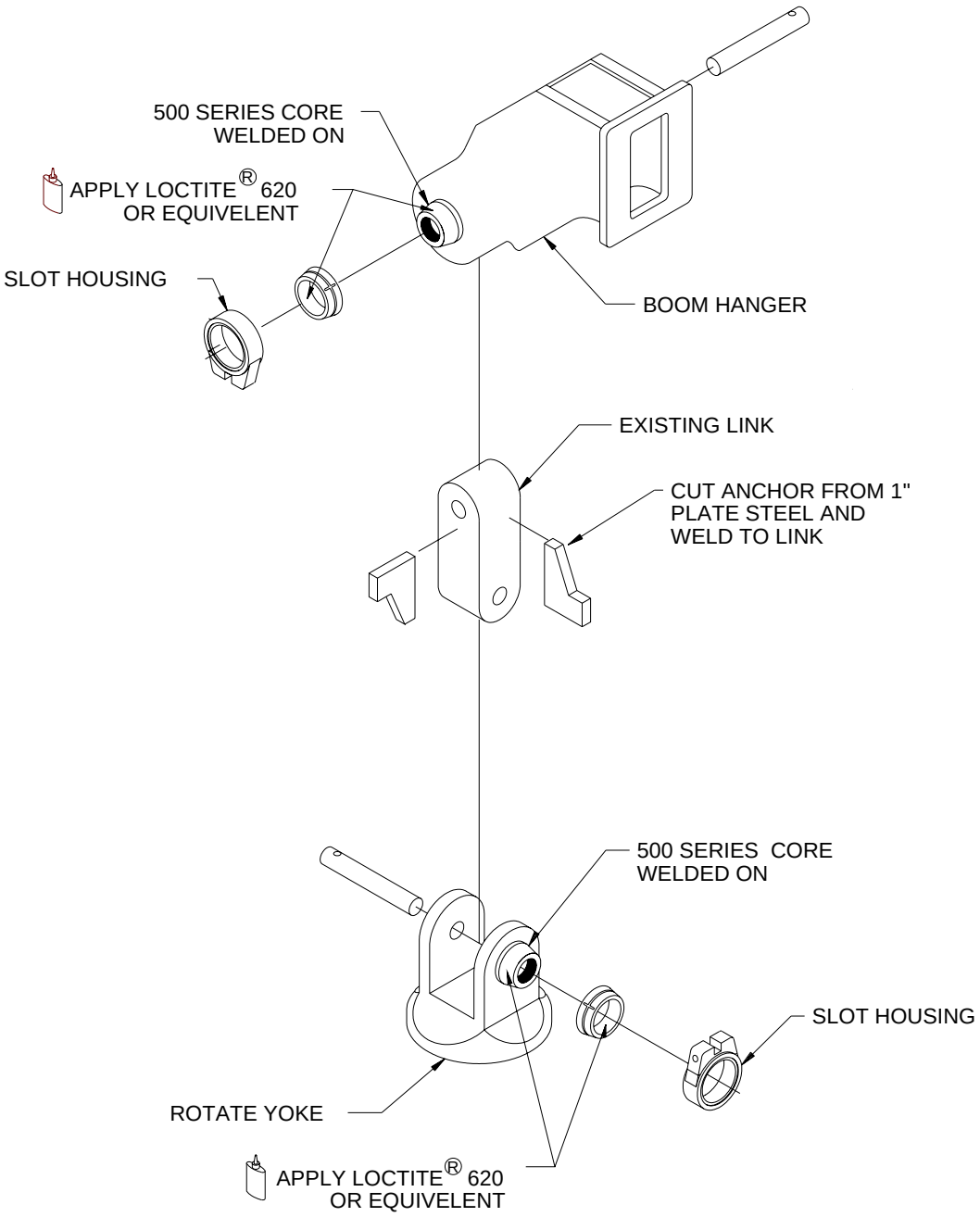
# EXTERNAL MOUNT

## SNUBBER ASSEMBLY

UNIVERSAL MOUNT (SLOT HOUSING)
KIT # B3500-17



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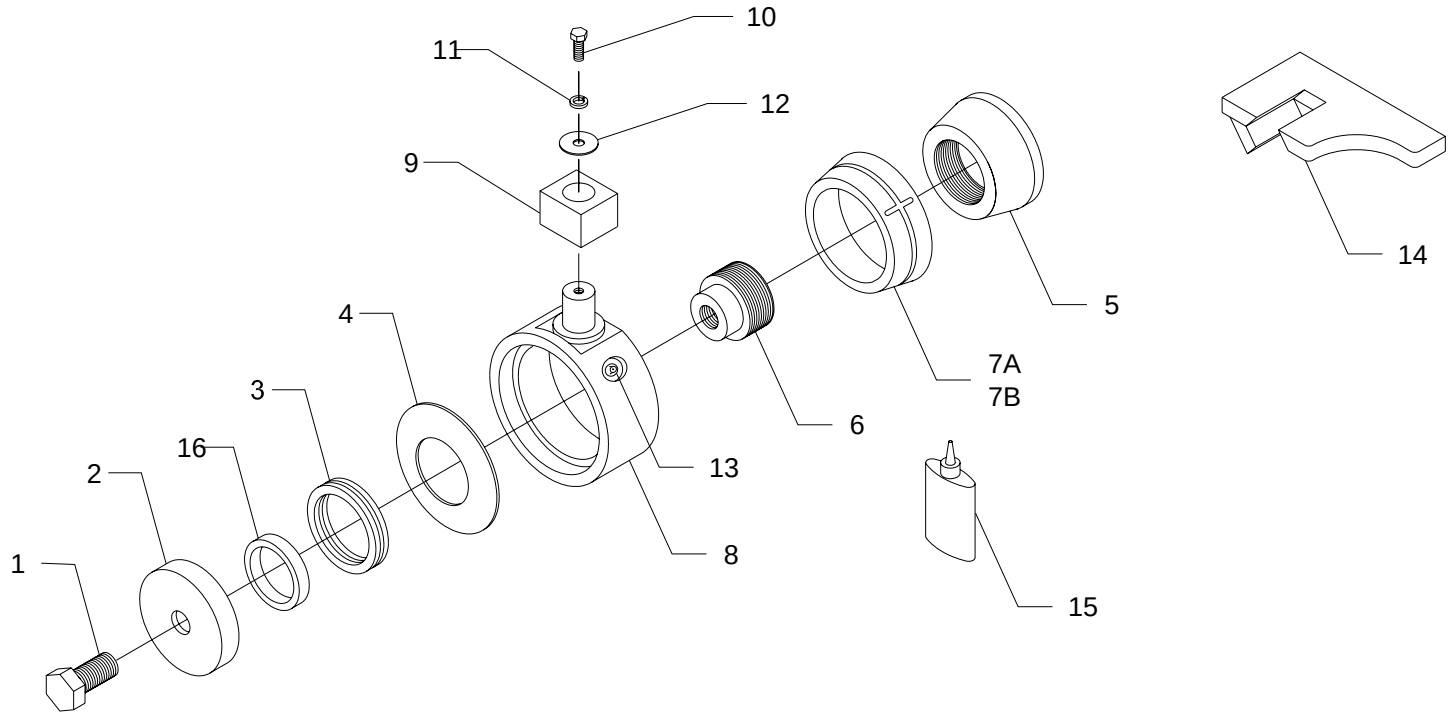
# EXTERNAL MOUNT

## B3500-1

USE WITH JOHN DEERE JD640 / JD740
ORIGINAL GRAPPLE FABRICATED TONGS
*TOP PIN – FORWARD / BACKWARD GRAPPLE SWING



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# EXTERNAL MOUNT

## B3500-1

USE WITH JOHN DEERE JD640 / JD740
ORIGINAL GRAPPLE FABRICATED TONGS
*TOP PIN – FORWARD / BACKWARD GRAPPLE SWING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4”-16 x 2 1/2” Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4” O.D. 3/4” BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-180S | WEAR BLOCK | 1 |
| 10 | B3T-145 | BOLT (1/2”UNC x 1” Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2” LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2” FLAT x 1 3/8” O.D. Gr8 PLATED) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-125 | BRACKET | 1 |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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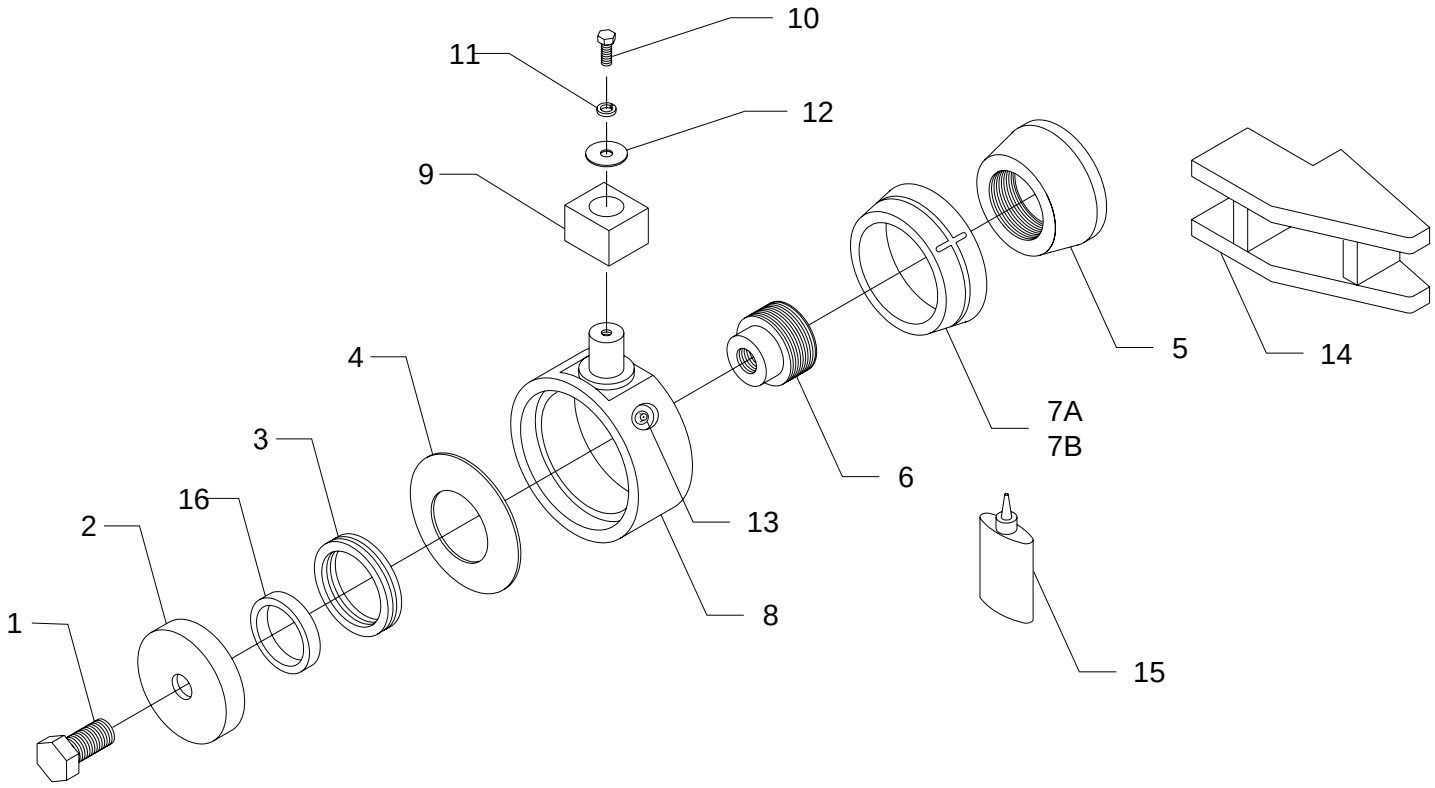
# EXTERNAL MOUNT

## B3500-2

USE WITH JOHN DEERE JD640 / JD740
ORIGINAL GRAPPLE FABRICATED TONGS
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-2

USE WITH JOHN DEERE JD640 / JD740
ORIGINAL GRAPPLE FABRICATED TONGS
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4”-16 x 2 1/2” Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4” O.D. 3/4” BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-180S | WEAR BLOCK | 1 |
| 10 | B3T-145 | BOLT (1/2”UNC x 1” Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2” LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2” FLAT x 1 3/8” O.D. Gr8 PLATED) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-210 | BRACKET | 1 |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-605 | SEAL, INDLUDED WITH B3S-155 BEARING | 1 |

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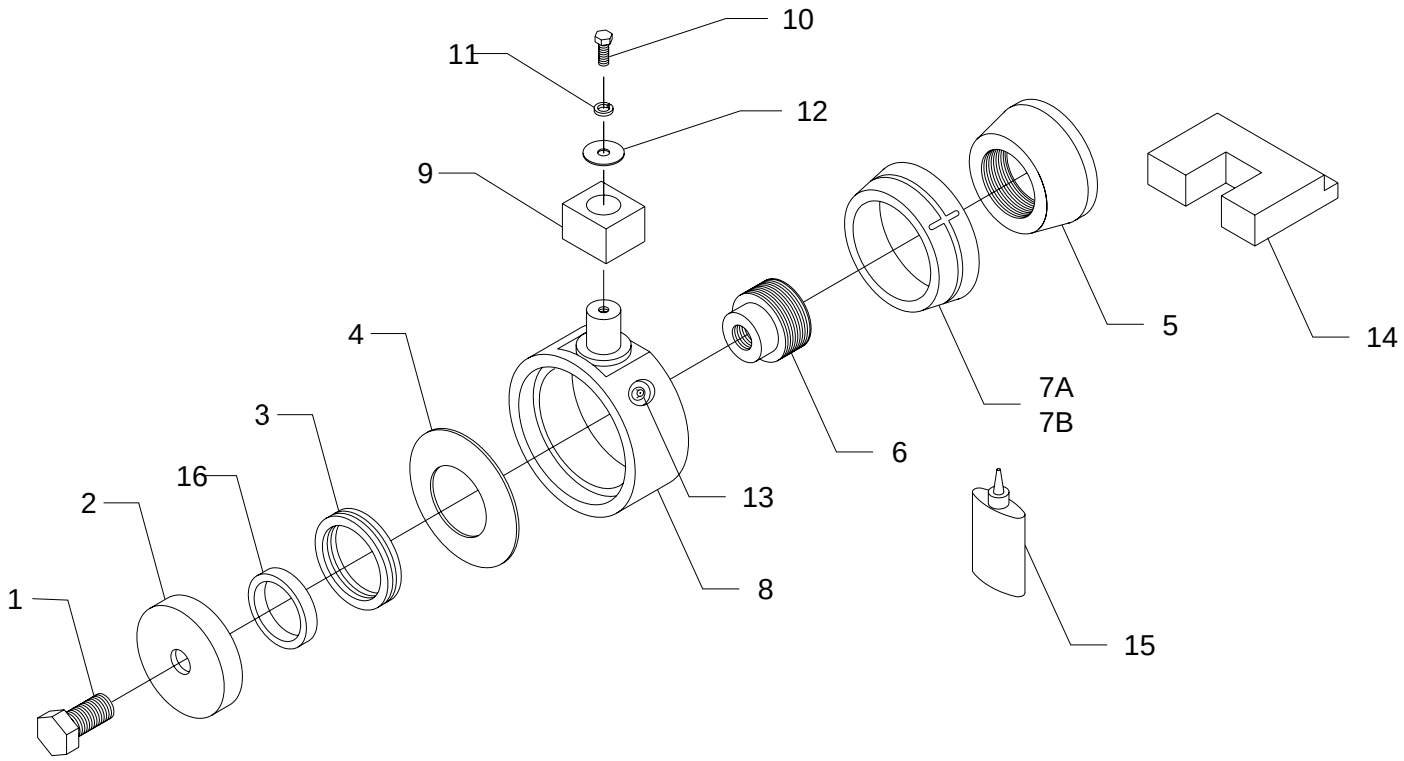
**500 SERIES**

# EXTERNAL MOUNT

## B3500-3

USE WITH JOHN DEERE JD648 / JD740A CAST GRAPPLE TONGS
*TOP PIN – FORWARD / BACKWARD GRAPPLE SWING
USE WITH TIMBERJACK 380 / 450 – 105” GRAPPLE -PRIOR TO 1987 PRODUCTION
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING



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**MANUFACTURING INC.**

**500 SERIES**

# EXTERNAL MOUNT

## B3500-3

USE WITH JOHN DEERE JD648 / JD740A CAST GRAPPLE TONGS
*TOP PIN – FORWARD / BACKWARD GRAPPLE SWING
USE WITH TIMBERJACK 380 / 450 – 105" GRAPPLE --PRIOR TO 1987 PRODUCTION
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, #1 CONCAVE TO HOUSING, 2 & 3 CONCAVE FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-180S | WEAR BLOCK | 1 |
| 10 | B3T-145 | BOLT (1/2"UNC x 1" Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PLATED) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-185 | BRACKET | 1 |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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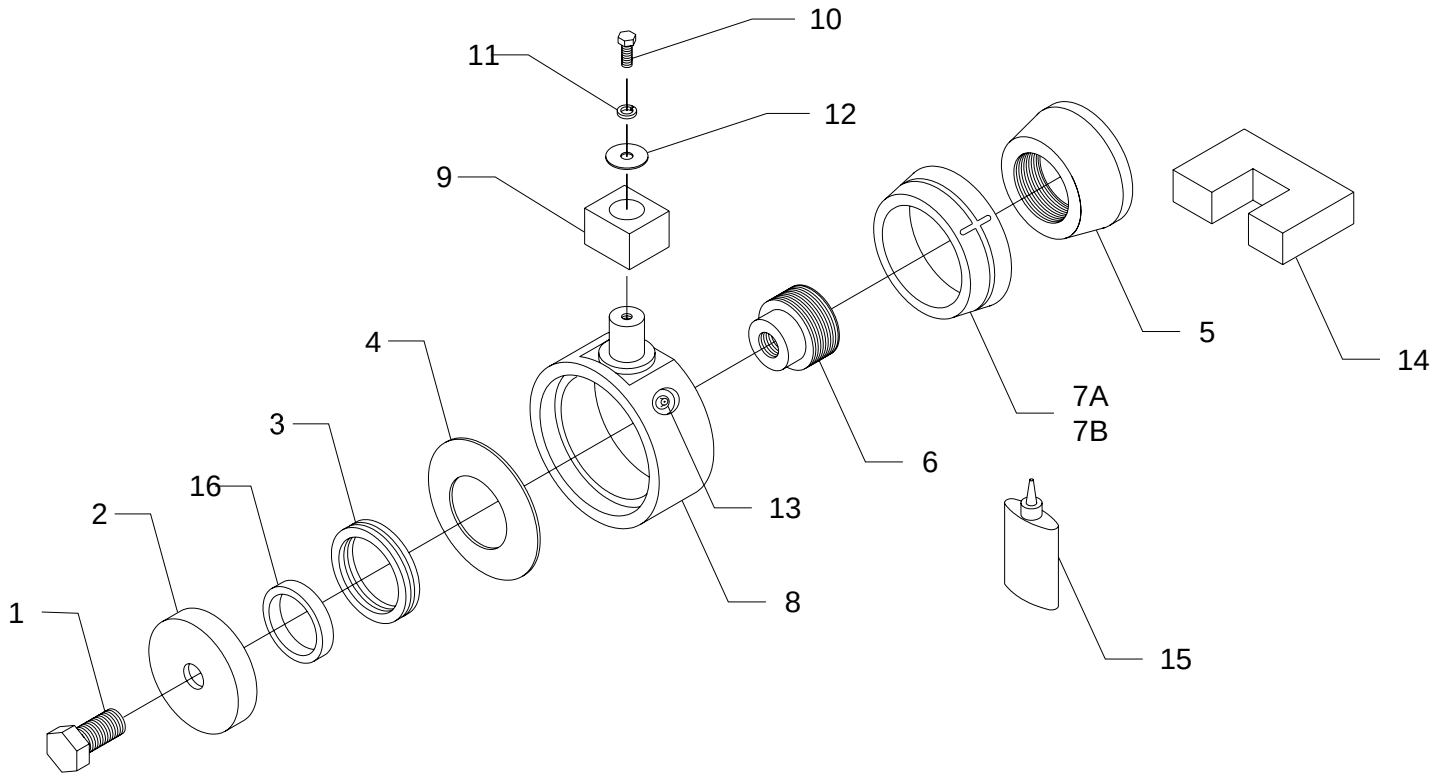
**500 SERIES**

# EXTERNAL MOUNT

## B3500-4

USE WITH JOHN DEERE JD640D / JD740D / JD740A
CAST GRAPPLE TONGS
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING



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# EXTERNAL MOUNT

## B3500-4

USE WITH JOHN DEERE JD640D / JD740D / JD740A
CAST GRAPPLE TONGS
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4”-16 x 2 1/2” Gr8 ZN)<br>REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, #1 CONCAVE TO HOUSING,<br>2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4” O.D. 3/4” BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410<br>B3T-180S | WEDGE WEAR BLOCK<br>2” SQUARE WEARBLOCK (ORIGINAL, OPTIONAL) | 1<br>OPTIONAL |
| 10 | B3T-145 | BOLT (1/2”UNC x 1” Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2” LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2” FLAT x 1 3/8” O.D. Gr8 PLATED) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-380W<br>B3T-380 | WEDGE WEAR BLOCK<br>2” SQUARE (ORIGINAL, OPTIONAL) | 1<br>OPTIONAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR<br>EQUIVALENT | 1 |
| 16 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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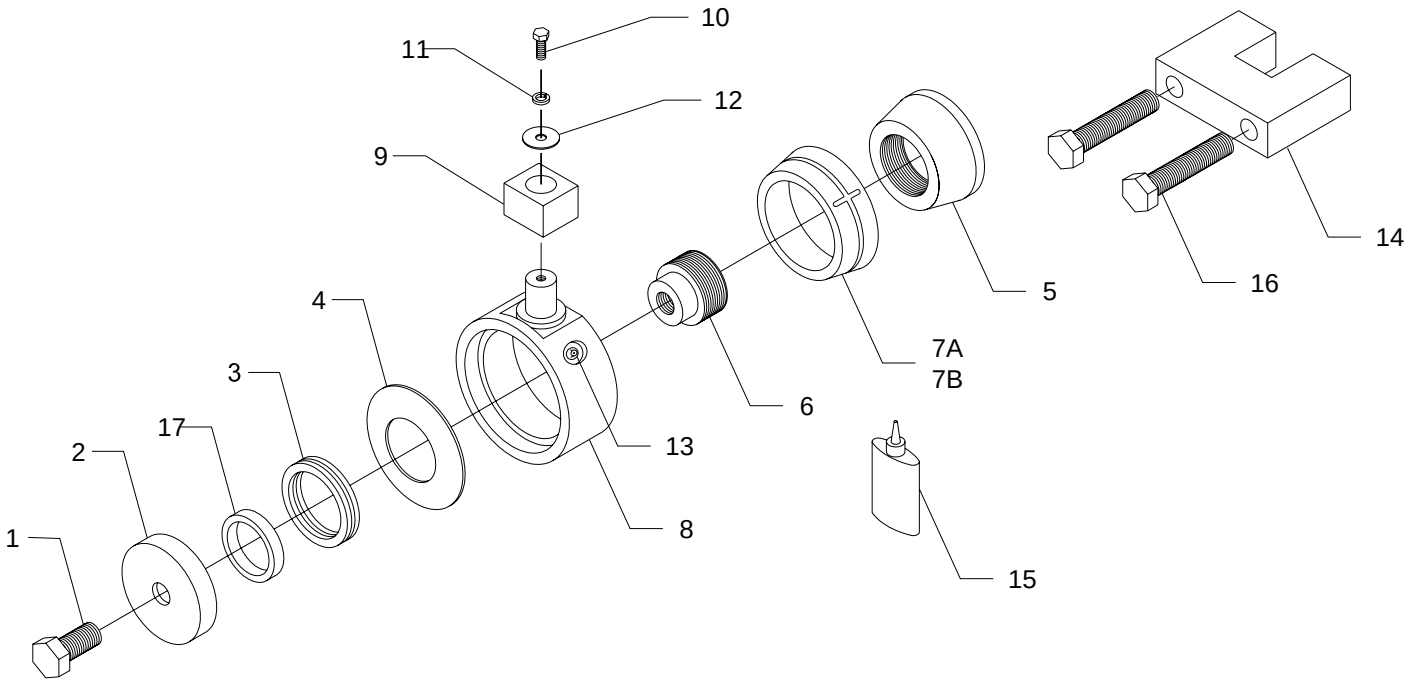
# EXTERNAL MOUNT

## B3500-5

USE WITH JOHN DEERE
548E / 648E / 748E
*TOP OR BOTTOM PIN



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# EXTERNAL MOUNT

## B3500-5

USE WITH JOHN DEERE
548E / 648E / 748E
*TOP OR BOTTOM PIN

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN)<br>REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, #1 CONCAVE TO HOUSING,<br>2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | 2" SQUARE (ORIGINAL, OPTIONAL) | OPTIONAL |
| 10 | B3T-1450 | BOLT (1/2"UNC x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8) Use with B3T-180S Block | |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PLATED) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-205W | WEDGE ANCHOR | 1 |
| | B3T-205 | ANCHOR, USE 2" SQUARE BLOCK B3T-180S | OPTIONAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIV. | 1 |
| 16 | REUSE ORIG. | BOLT ((M16 x 120 2.00P GRD 12.9 PLATED) | 2 |
| 17 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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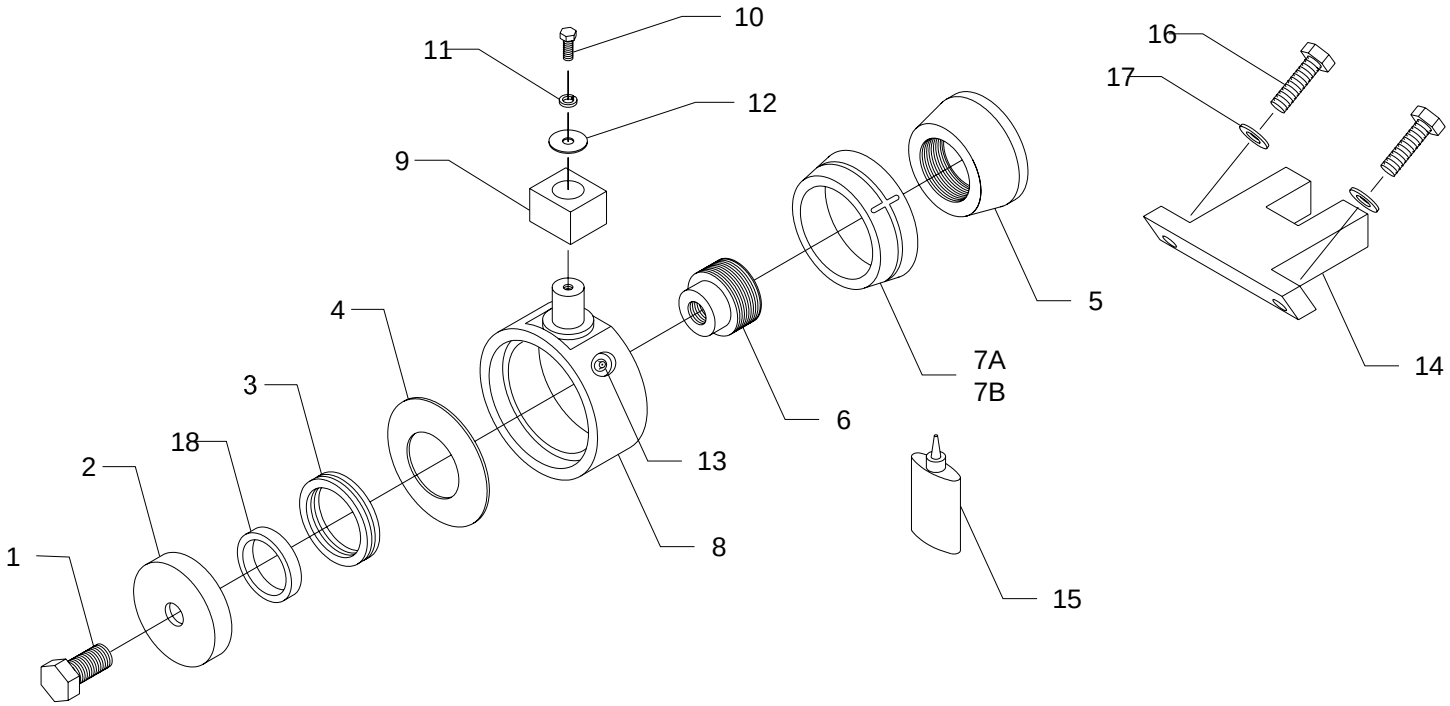
# EXTERNAL MOUNT

## B3500-6

USE WITH JOHN DEERE
548G / 648G / 748G
*BOTTOM PIN – SIDE TO SIDE (SHOCK ABSORBER)



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-6

USE WITH JOHN DEERE
548G / 648G / 748G
*BOTTOM PIN – SIDE TO SIDE (SHOCK ABSORBER)

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, #1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-180S | WEAR BLOCK | 1 |
| 10 | B3T-145 | BOLT (1/2"UNC x 1" Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-545 | BRACKET | 1 |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-555 | BOLT (3/4" x 2NC Gr8) | 2 |
| 17 | B3T-560 | WASHER (3/4 » LOCK) | 2 |
| 18 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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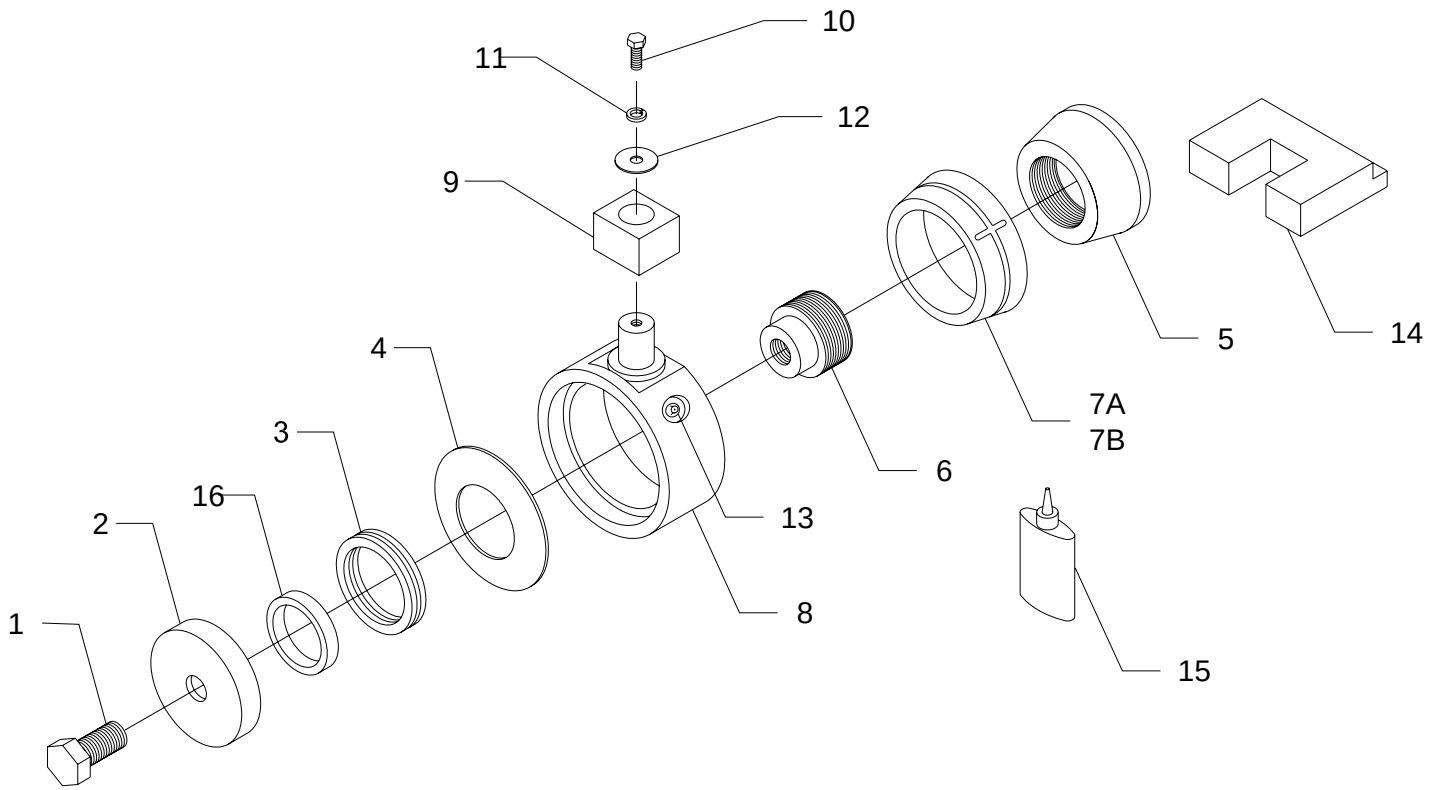
**500 SERIES**

# EXTERNAL MOUNT

## B3500-7

USE WITH TIMBERJACK
TJ380 / TJ450 – 105" GRAPPLE (PRIOR TO 1987 MFG)
TJ480 / TJ520 (PRIOR TO 1987 MFG WITHOUT FACTORY SNUBBER)
*TOP PIN – FORWARDS / BACKWARDS GRAPPLE SWING



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-7

USE WITH TIMBERJACK
TJ380 / TJ450 – 105" GRAPPLE (PRIOR TO 1987 MFG)
TJ480 / TJ520 (PRIOR TO 1987 MFG WITHOUT FACTORY SNUBBER)
*TOP PIN – FORWARDS / BACKWARDS GRAPPLE SWING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-180S | WEAR BLOCK | 1 |
| 10 | B3T-145 | BOLT (1/2"UNC x 1" Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-345 | BRACKET | 1 |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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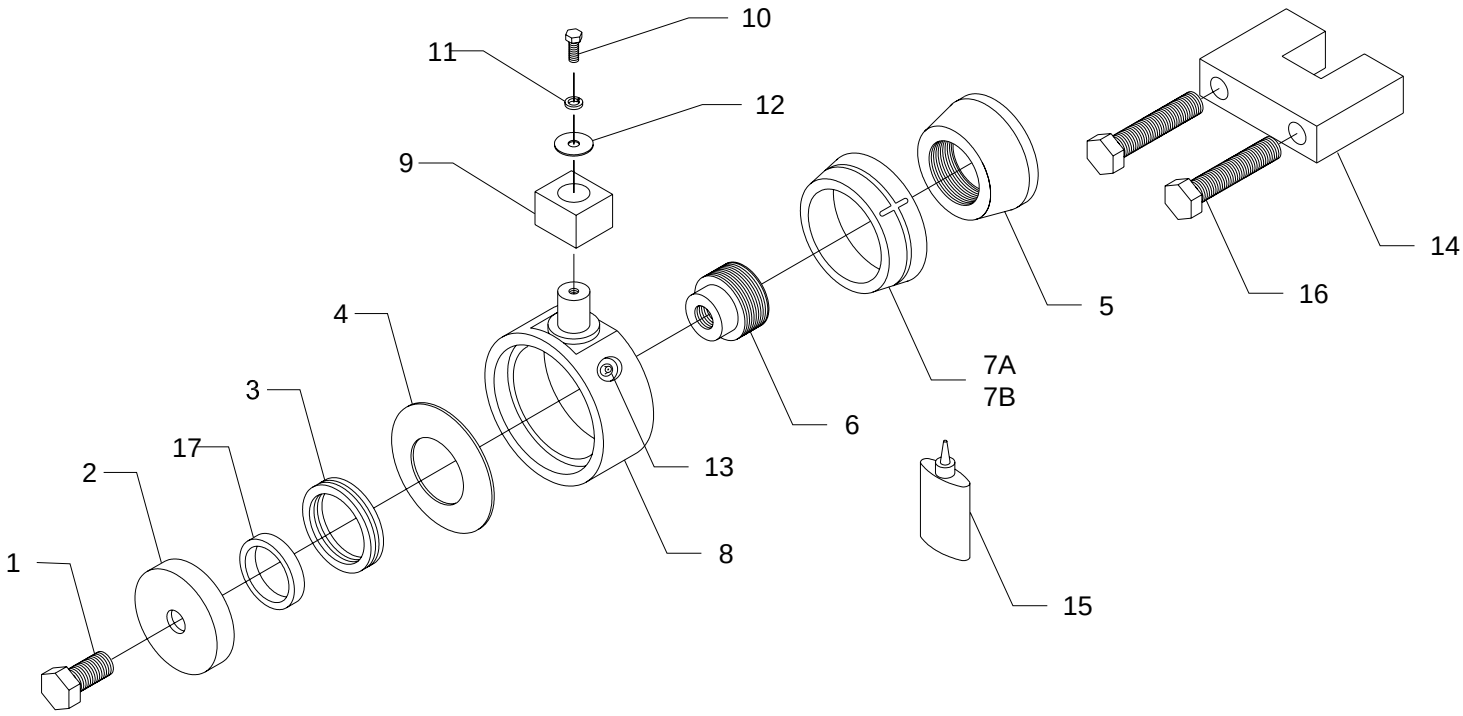
**500 SERIES**

# EXTERNAL MOUNT

## B3500-8

USE WITH TIMBERJACK
ALL MODELS (1987 TO PRESENT)
*REPLACES FACTORY SNUBBER W / BOLT ON BRACKETS



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-8

USE WITH TIMBERJACK
ALL MODELS (1987 TO PRESENT)
*REPLACES FACTORY SNUBBER W / BOLT ON BRACKETS

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | 2" SQUARE WEAR BLOCK (ORIGINAL,OPTIONAL) | OPTIONAL |
| 10 | B3T-1450 | BOLT (½"UNC x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8) Use with B3T-180S | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-360W | WEDGE ANCHOR | 1 |
| | B3T-360 | 2" SQUARE BRACKET (ORIGINAL, OPTIONAL) | OPTIONAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | *REUSE ORIGINAL | BOLT (3/4" x 7" NC GRD 8) | 2 |
| 17 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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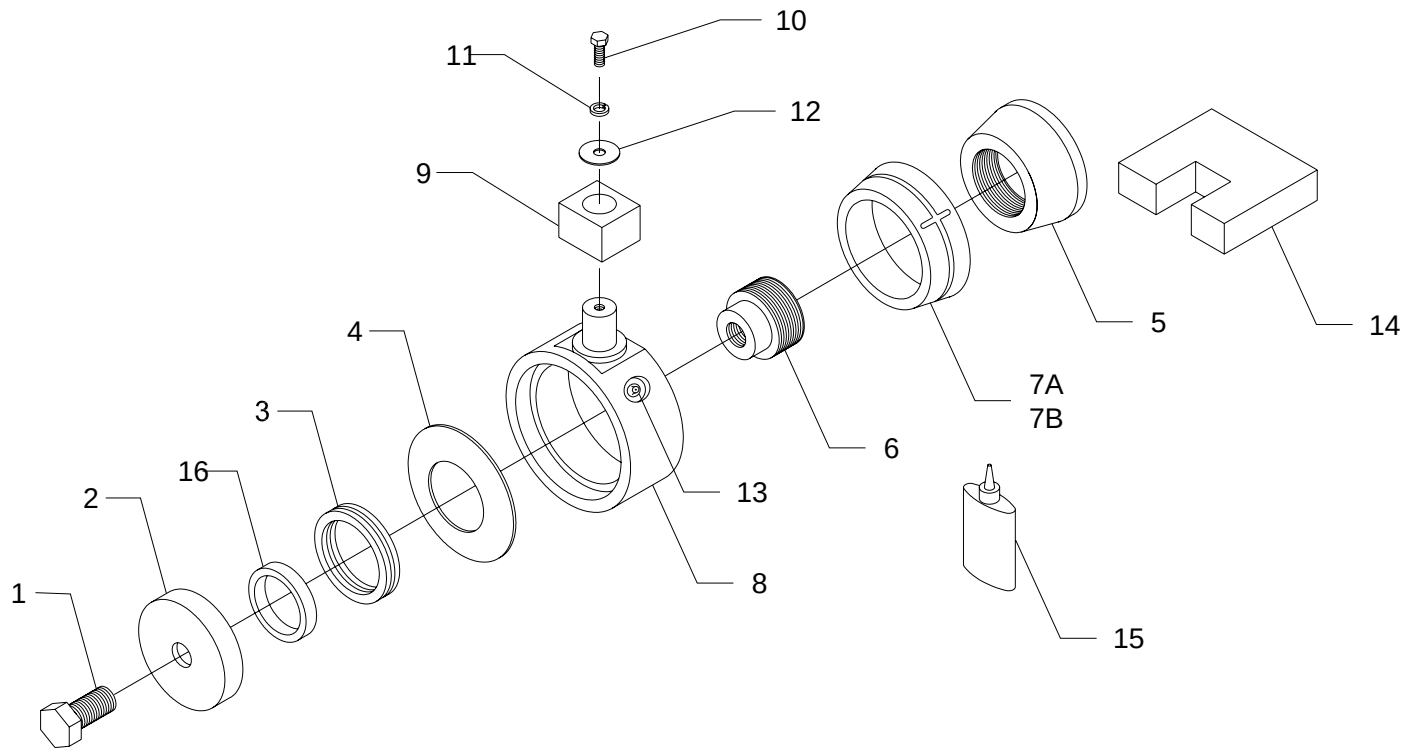
**500 SERIES**

# EXTERNAL MOUNT

## B3500-9

UNIVERSAL MOUNT (TRIM BRACKET BEFORE WELDING)
ALLIED RANGER 668D / 668F
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-9

UNIVERSAL MOUNT (TRIM BRACKET BEFORE WELDING)
ALLIED RANGER 668D / 668F
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4”-16 x 2 1/2” Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4” O.D. 3/4” BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGW WEAR BLOCK | 1 |
| | B3T-180S | 2” SQUARE WEAR BLOCK(ORIGINAL, OPTIONAL) | OPTIONAL |
| 10 | B3T-1450 | BOLT (1/2” x 1 ½” Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2”UNC x 1” Gr8) Use with B3T-180S | 1 |
| 11 | B3T-150 | WASHER (1/2” LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2” FLAT x 1 3/8” O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-600W | WEDGE ANCHOR | 1 |
| | B3T-600 | 2” SQUARE BRACKET (ORIGINAL,OPTIONAL) | OPTIONAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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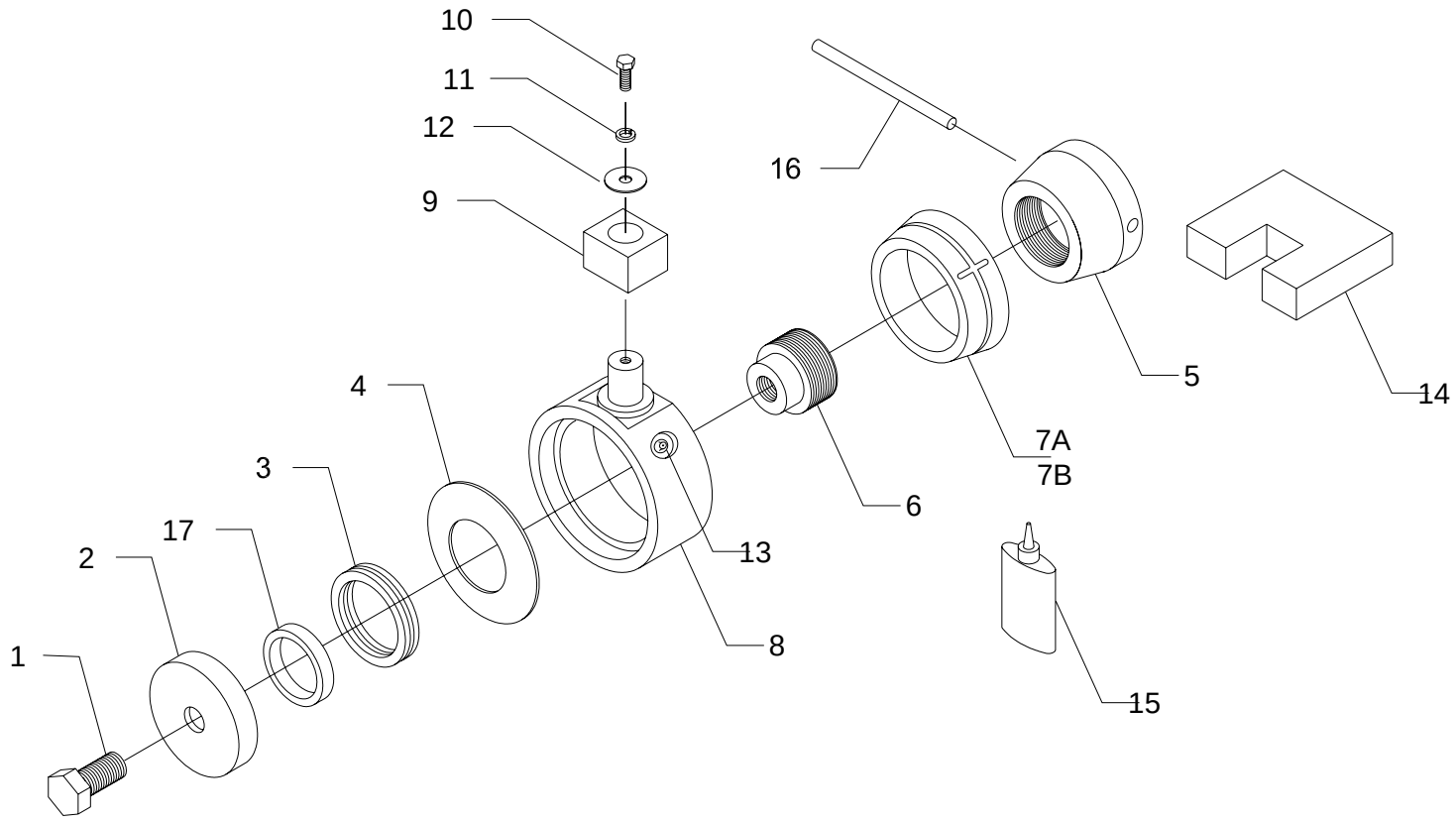
**500 SERIES**

# EXTERNAL MOUNT

## B3500-10

UNIVERSAL MOUNT
CROSSHOLE STYLE CORE FOR PIN RETENTION
*TRIM BRACKET BEFORE WELDING



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-10

UNIVERSAL MOUNT
CROSSHOLE STYLE CORE FOR PIN RETENTION
*TRIM BRACKET BEFORE WELDING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-530 | CORE (3 1/4" I.D. W/ CROSSHOLE) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | 2" SQUARE WEAR BLOCK(ORIGINAL,OPTIONAL) | OPTIONAL |
| 10 | B3T-1450 | BOLT (1/2" x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8) Use with B3T-180S | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-600W | WEDGE ANCHOR, TRIM TO LENGTH | 1 |
| | B3T-600 | 2" SQUARE BRACKET (ORIGINAL, OPTIONAL) | OPTIONAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-310 | ROLL PIN (1/2" x 5") | 1 |
| 17 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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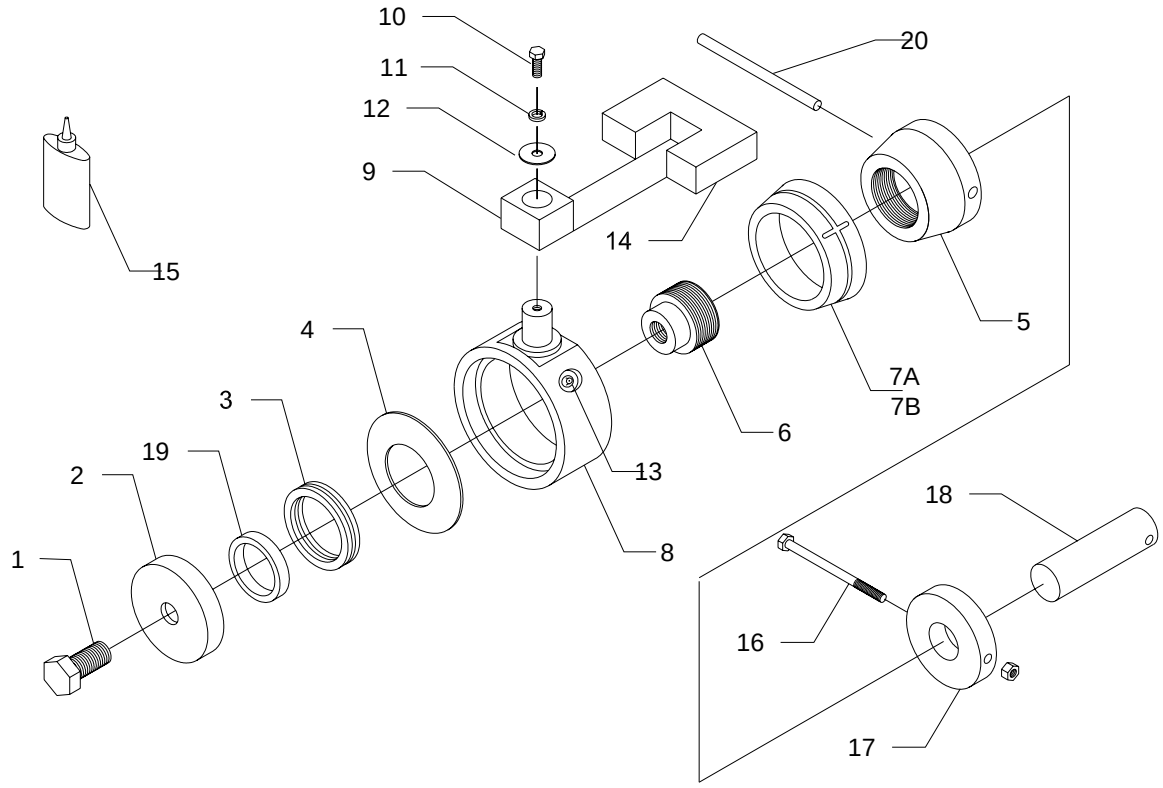
**500 SERIES**

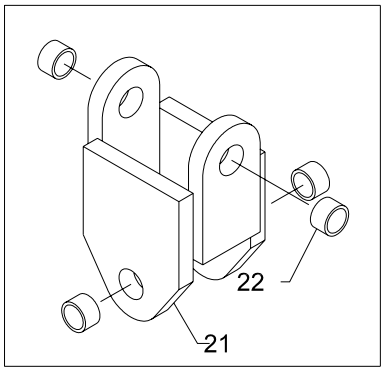
# EXTERNAL MOUNT

## B3500-11

USE WITH ALLIED RANGER
2" PINS 666 – 667 LATE D SERIES, SERIES F – G – H
*TOP & BOTTOM




OPTIONAL: INSTALL FABRICATED
YOKE 2" PINS ONLY



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-11

USE WITH ALLIED RANGER
2" PINS 666 – 667 LATE D SERIES, SERIES F – G – H
*TOP & BOTTOM

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-530 | CORE (3 1/4" I.D. W/ CROSSHOLE) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | 2" SQUARE WEAR BLOCK(ORIGINAL,OPTIONAL) | OPTIONAL |
| 10 | B3T-1450 | BOLT ( ½" x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8) Use with B3T-180S | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-600W | WEDGE ANCHOR, TRIM TO LENGTH | 1 |
| | B3T-600 | 2" SQUARE BRACKET OPTIONAL, TRIM TO FIT | OPTIONAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-215 | BOLT & NUT (1/2" UNC x 6" GRD 8 C/W NUT) | 1 |
| 17 | B3F-460 | WELD-ON RETAINER | 1 |
| 18 | B3F-455 | PIN (2" O.D.) | 2 |
| 19 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |
| 20 | B3T-310 | ROLL PIN (1/2" x 5") | 1 |
| 21 | B3F-440 | YOKE - OPTIONAL, INCLUDES 4 - B3T-305S BUSHING (2" PINS ONLY) | 1 |
| 22 | B3T-305S | BUSHING (2" I.D.) (SUB FOR B3F-480) | 4 |

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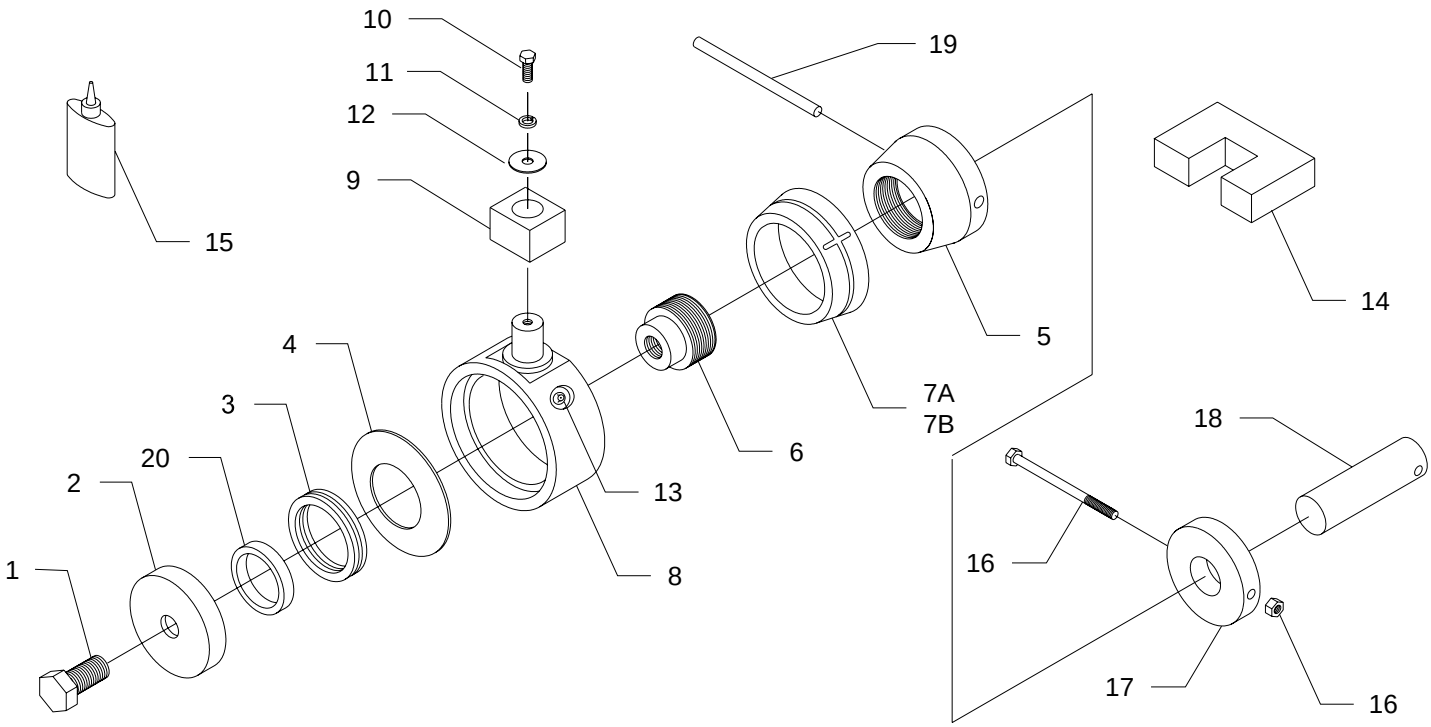
**500 SERIES**

# EXTERNAL MOUNT

## B3500-12

USE WITH ALLIED RANGER
1 3/4” PINS 666 – 667 C SERIES, EARLY D SERIES
*TOP & BOTTOM



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**MANUFACTURING INC.**

**500 SERIES**

# EXTERNAL MOUNT

## B3500-12

USE WITH ALLIED RANGER
1 3/4" PINS 666 – 667 C SERIES, EARLY D SERIES
*TOP & BOTTOM

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1345 | BOLT (3/4"-16 x 2 ½ " Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-530 | CORE (3 1/4" I.D. W/ CROSSHOLE) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | 2" SQUARE WEAR BLOCK(ORIGINAL,OPTIONAL) | OPTIONAL |
| 10 | B3T-1450 | BOLT (1/2"UNC x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8) Use with B3T-180S | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-600W | WEDGE ANCHOR, TRIM TO LENGTH | 1 |
| | B3T-600 | BRACKET ORIGINAL, OPTIONAL TRIM TO FIT | ORIGINAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-215 | BOLT & NUT (1/2" UNC x 6" GRD 8 C/W NUT) | 1 |
| 17 | B3T-460 | WELD-ON RETAINER | 1 |
| 18 | B3T-450 | PIN (1 3/4" O.D.) | 2 |
| 19 | B3T-310 | ROLL PIN (1/2" x 5") | 1 |
| 20 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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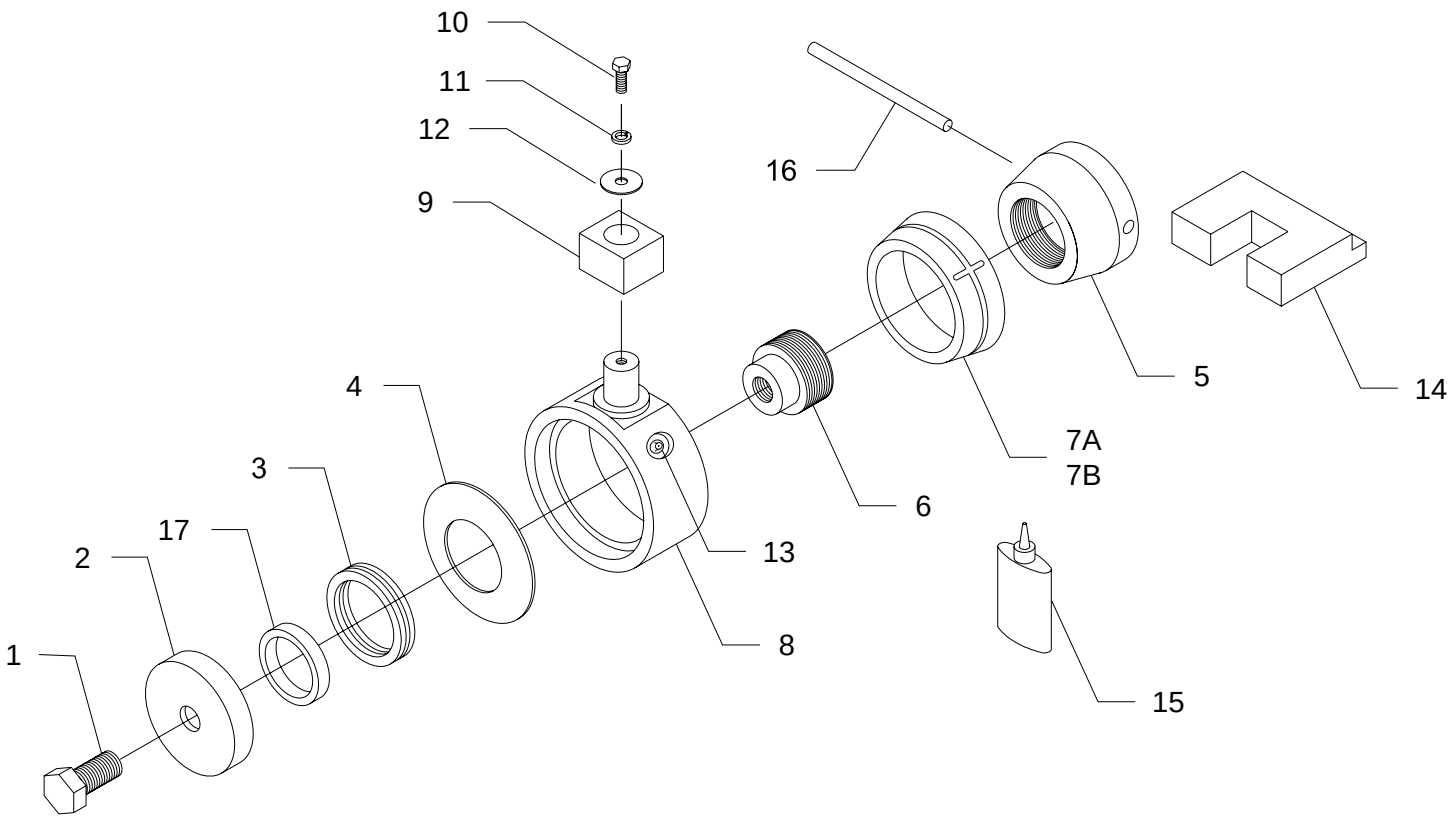
**500 SERIES**

# EXTERNAL MOUNT

## B3500-13

USE WITH ALLIED RANGER
668D / 668F
*TOP PIN – FORWARDS / BACKWARDS GRAPPLE SWING



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**MANUFACTURING INC.**

**500 SERIES**

# EXTERNAL MOUNT

## B3500-13

USE WITH ALLIED RANGER
668D / 668F
*TOP PIN – FORWARDS / BACKWARDS GRAPPLE SWING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4”-16 x 2 1/2” Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING | 1 |
| 4 | B3T-540 | SPRING WASHER | 1 |
| 5 | B3T-530 | CORE (3 1/4" I.D. W/ CROSSHOLE) | 1 |
| 6 | B3T-405 | PLUG (3 1/4” O.D. 3/4” BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-180S | WEAR BLOCK | 1 |
| 10 | B3T-145 | BOLT (1/2”UNC x 1” Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2” LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2” FLAT x 1 3/8” O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-185 | BRACKET | 1 |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-310 | ROLL PIN (1/2” x 5”) | 1 |
| 17 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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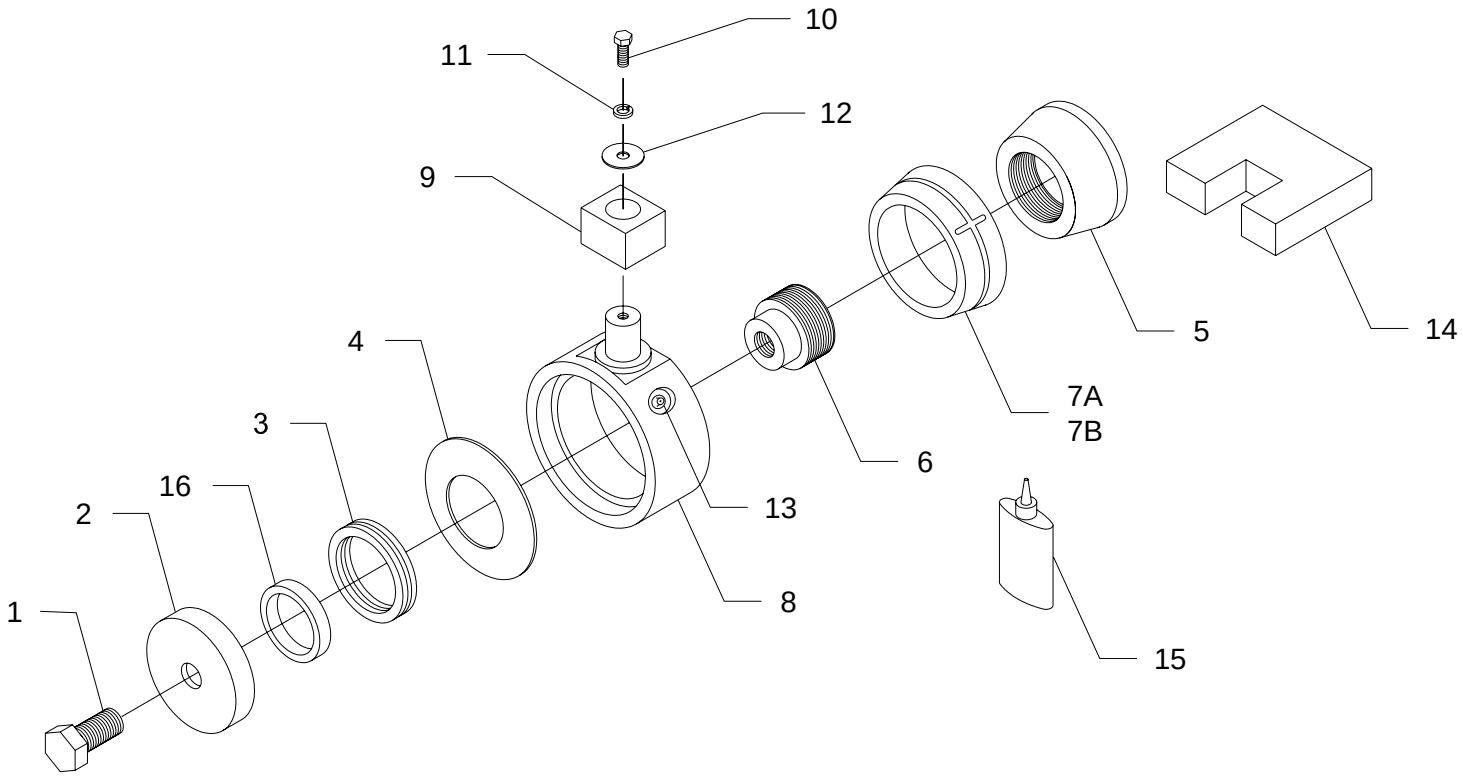
**500 SERIES**

# EXTERNAL MOUNT

## B3500-14

UNIVERSAL MOUNT (WITHOUT CROSSHOLE)
TIGERCAT 860 SHOVEL LOADER
*TIGERCAT ASS'Y : CY026



**PROLENC ®**
**MANUFACTURING INC.**

**500 SERIES**

# EXTERNAL MOUNT

## B3500-14

UNIVERSAL MOUNT (WITHOUT CROSSHOLE)
TIGERCAT 860 SHOVEL LOADER
*TIGERCAT ASS'Y : CY026

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | 2" SQUARE WEAR BLOCK ORIGINAL,OPTIONAL | OPTIONAL |
| 10 | B3T-1450 | BOLT (1/2"UNC x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8) Use with B3T-180S | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. GRD 8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-600W | WEDGE ANCHOR, TRIM TO LENGTH | 1 |
| | B3T-600 | 2' SQUARE BRACKET, ORIGINAL OPTIONAL | OPTIONAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-605 | SEAL, INCLUDED WITH B3S-155 | 1 |

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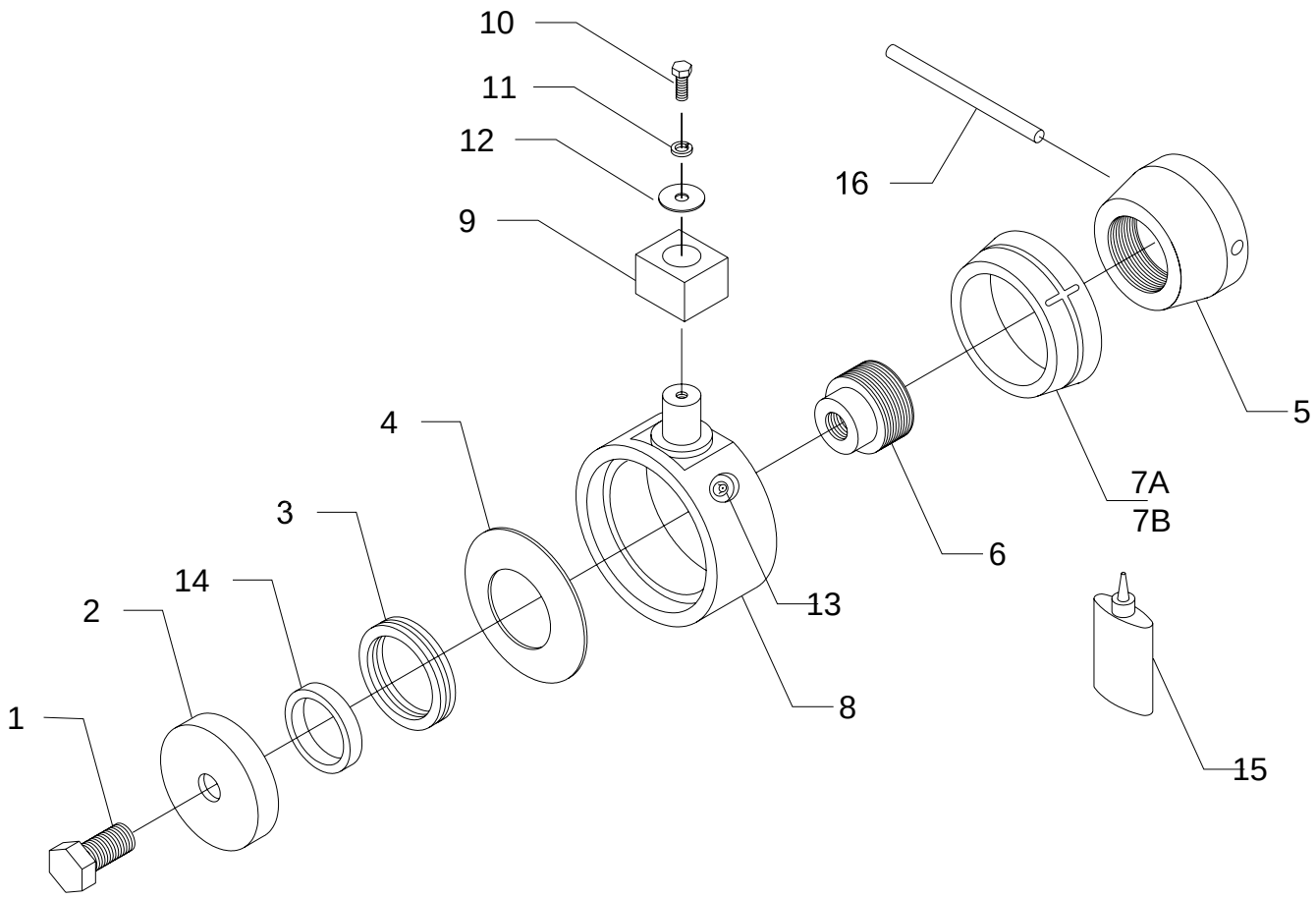
**500 SERIES**

# EXTERNAL MOUNT

## B3500-15S-3

USE WITH TIGERCAT (LESS ANCHOR BRACKET)
630 SKIDDER
*TIGERCAT ASS'Y : CY023



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-15S

USE WITH TIGERCAT (LESS ANCHOR BRACKET)
630 SKIDDER
*TIGERCAT ASS'Y : CY023

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, #1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-530 | CORE (3 1/4" I.D.W/ CROSSHOLE) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | 2" SQUARE WEAR BLOCK ORIGINAL,OPTIONAL | OPTIONAL |
| 10 | B3T-1450 | BOLT (1/2"UNC x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-310 | ROLL PIN (1/2" x 5") | 1 |
| ***** | B3T-380W | WEDGE ANCHOR BRACKET- USE TO TORCH OFF ORIGINAL T-CAT CAST ANCHOR AND RE-WELD TO NEW WEDGE STYLE SPEC | 3 PER MACHINE |

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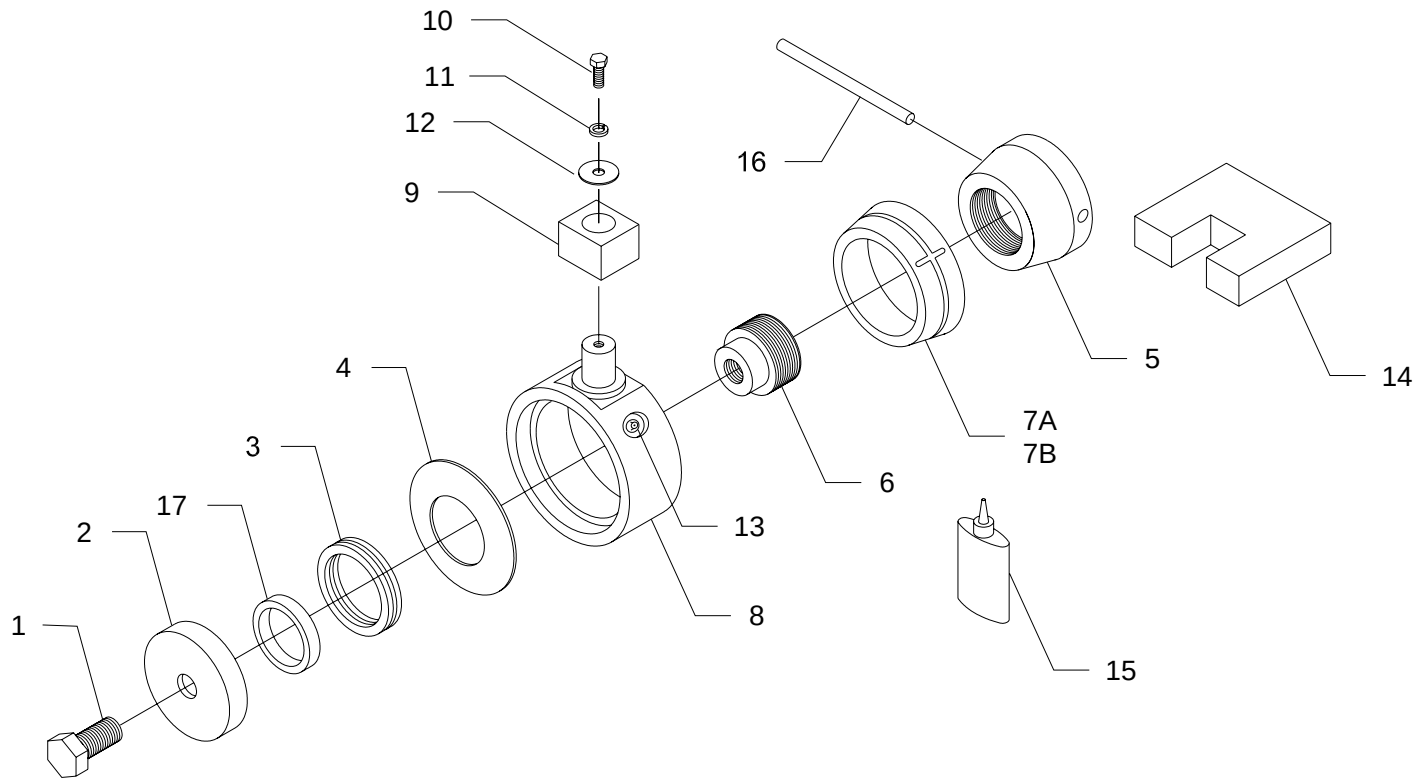
# EXTERNAL MOUNT

## B3500-16

UNIVERSAL MOUNT
*MAX 3” PIN O.D.



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-16

UNIVERSAL MOUNT
*MAX 3" PIN O.D.

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-530 | CORE (3 1/4" I.D.W/ CROSSHOLE) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | 2" SQUARE WEAR BLOCK ORIGINAL,OPTIONAL | OPTIONAL |
| 10 | B3T-1450 | BOLT (1/2"UNC x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8) Use with B3T-180S | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-600W | WEDGE WEAR BLOCK | 1 |
| | B3T-600 | 2'' SQUARE BRACKET ORIGINAL,OPTIONAL | OPTIONAL |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-310 | ROLL PIN (1/2" x 5") | 1 |
| 17 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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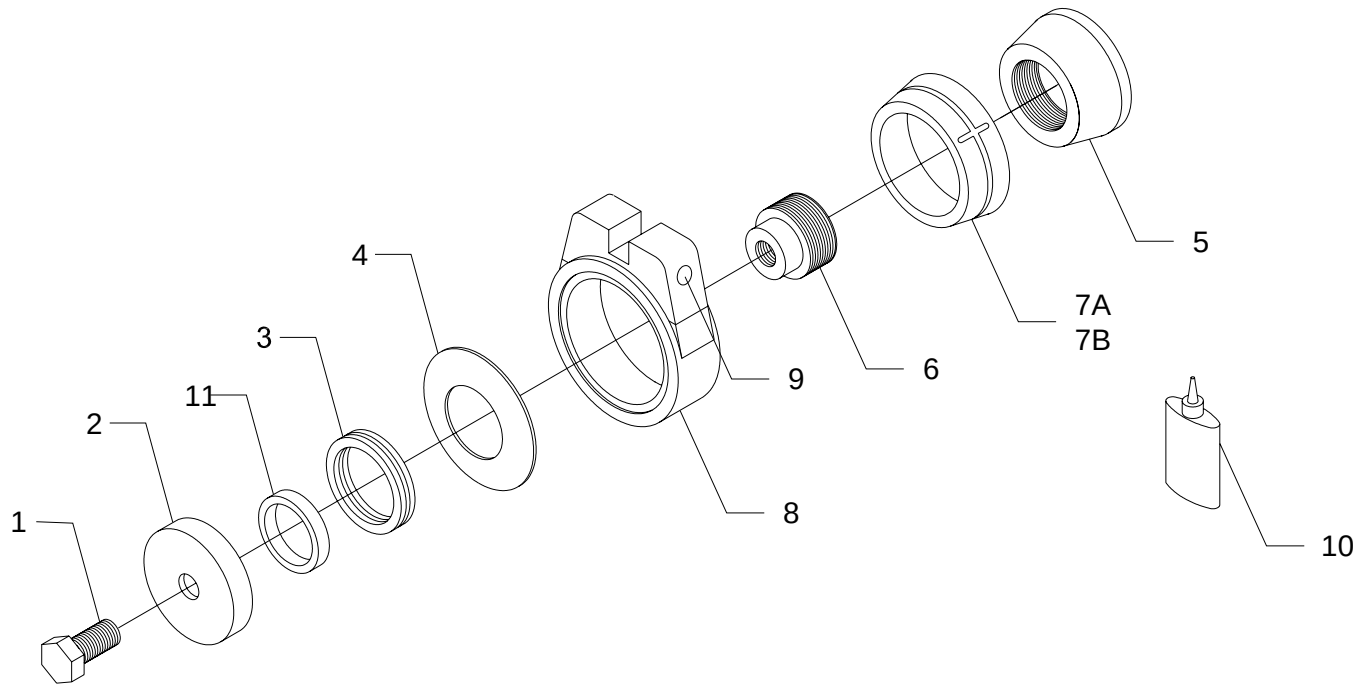
**500 SERIES**

# EXTERNAL MOUNT

## B3500-17

UNIVERSAL MOUNT (SLOT HOUSING)
FRANKLIN SKIDDER



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**MANUFACTURING INC.**

**500 SERIES**

# EXTERNAL MOUNT

## B3500-17

UNIVERSAL MOUNT (SLOT HOUSING)
FRANKLIN SKIDDER

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-120 | BOLT (3/4”-16 x 2” Gr8 ZN) | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER | 1 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4” O.D. 3/4” BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-230 | HOUSING, SLOT 1.030” WIDE | 1 |
| 9 | B3T-105 | ZERK | 2 |
| 10 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 11 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

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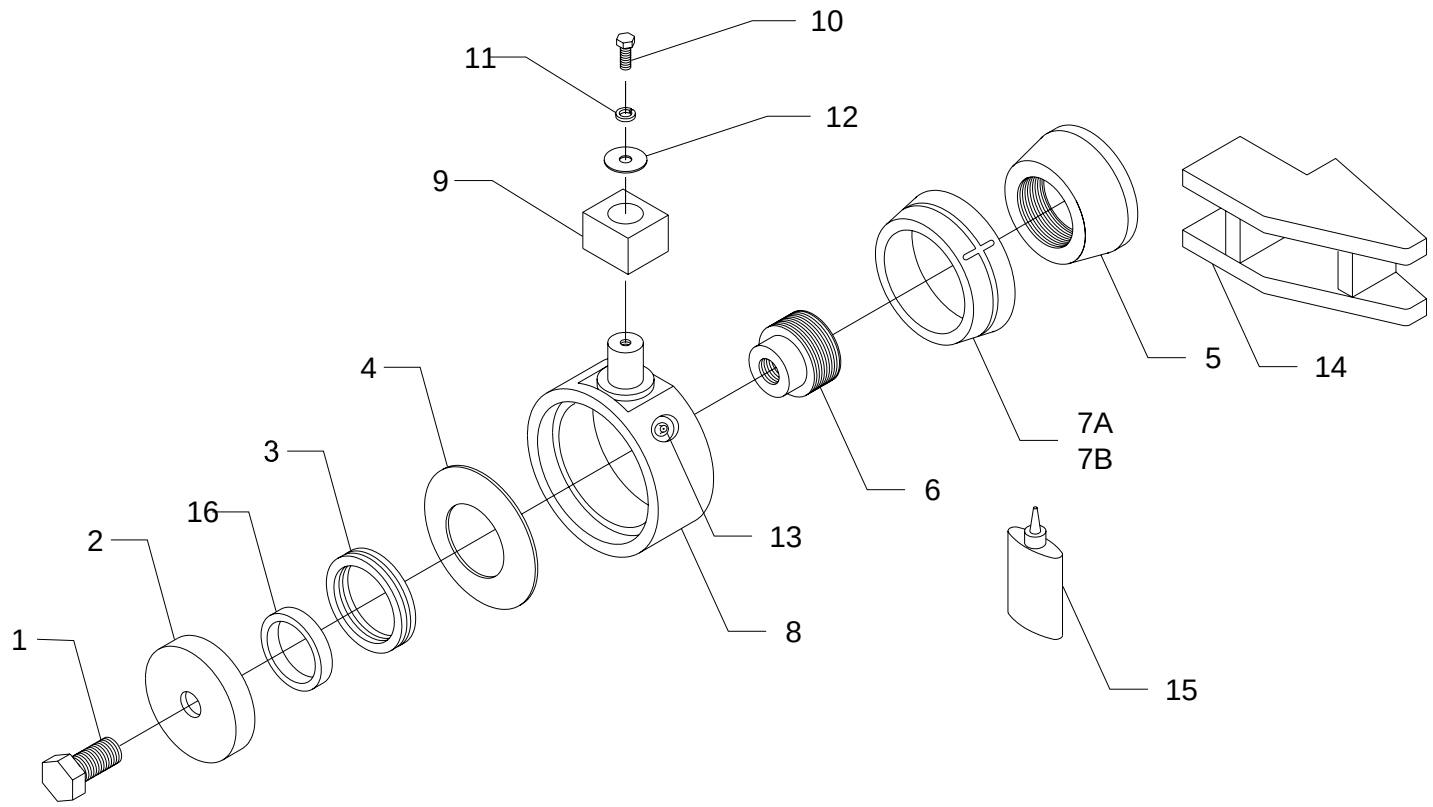
**500 SERIES**

# EXTERNAL MOUNT

## B3500-18

USE WITH TIMBERJACK 480 / 520
PRIOR TO 1987 WITHOUT FACTORY SNUBBER
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING



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**MANUFACTURING INC.**

**500 SERIES**

# EXTERNAL MOUNT

## B3500-18

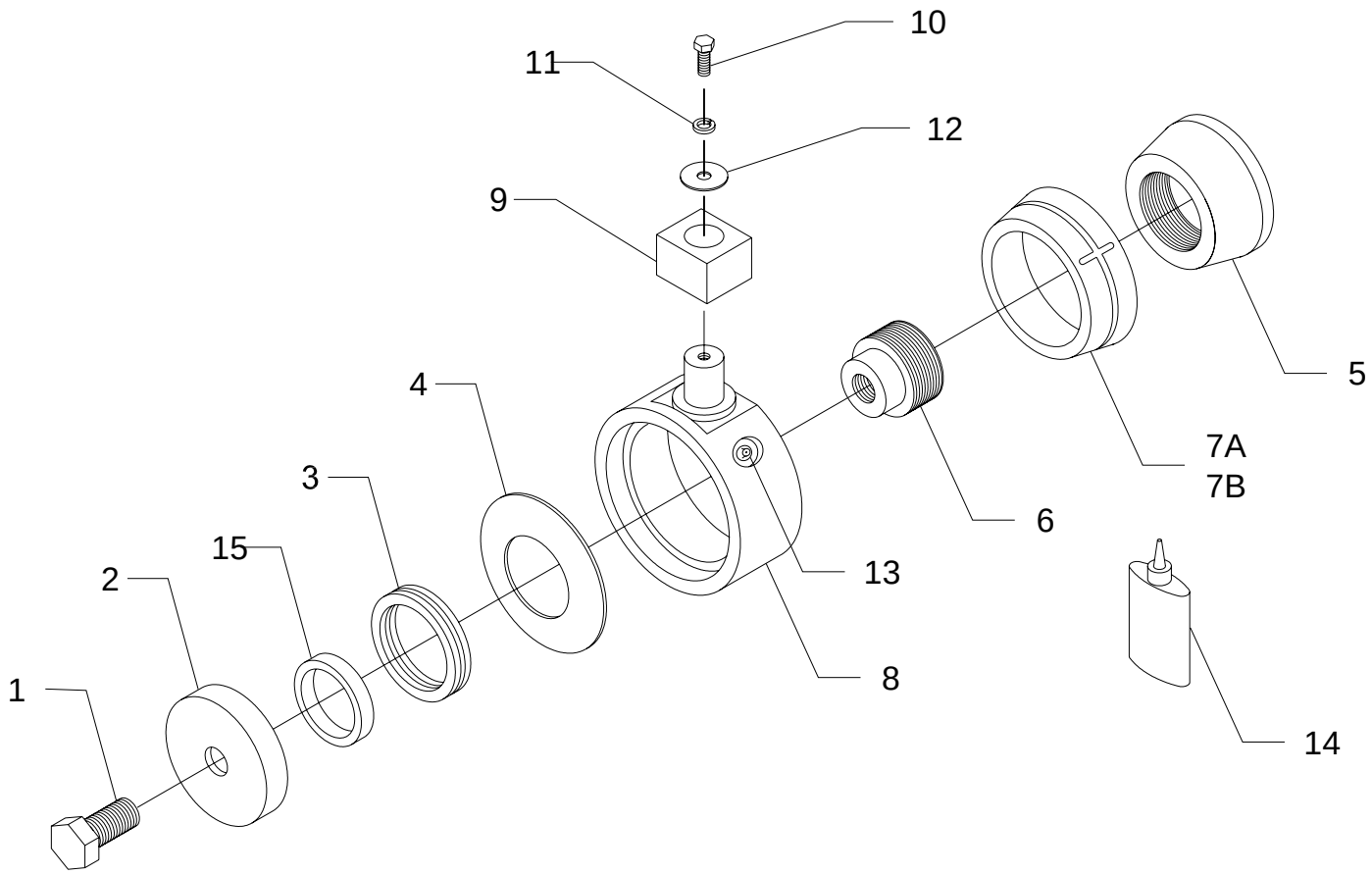
USE WITH TIMBERJACK 480 / 520
PRIOR TO 1987 WITHOUT FACTORY SNUBBER
*BOTTOM PIN – SIDE TO SIDE GRAPPLE SWING

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING, REPLACES B3T-170C | 1 |
| 9 | B3T-180S | WEAR BLOCK | 1 |
| 10 | B3T-145 | BOLT (1/2"UNC x 1" Gr8 PLATED) | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-355 | BRACKET | 1 |
| 15 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 16 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

# EXTERNAL MOUNT

## B3500-19

SERIES 500 WITHOUT CROSSHOLE
BRACKET NOT INCLUDED



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-19

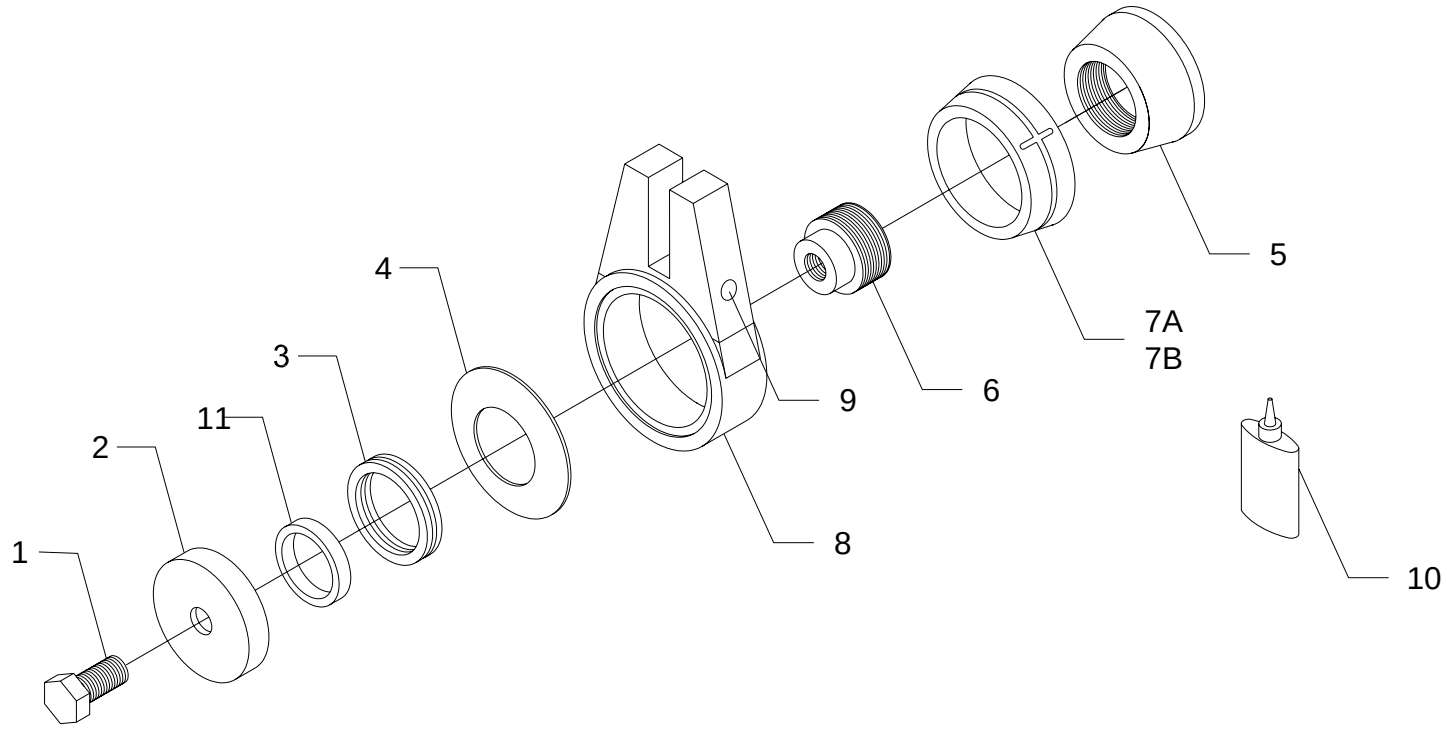
SERIES 500 WITHOUT CROSSHOLE
BRACKET NOT INCLUDED

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4"-16 x 2 1/2" Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE , FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4" O.D. 3/4" BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-1345 | STUD HOUSING- REPLACES B3T-170C | 1 |
| 9 | B3T-1410 | WEDGE WEAR BLOCK | 1 |
| | B3T-180S | WEAR BLOCK ORIGIONAL, OPTIONAL | OPTIONAL |
| 10 | B3T-1450 | BOLT (1/2'UNC x 1 ½" Gr8) Use with B3T-1410 | 1 |
| | B3T-145 | BOLT (1/2"UNC x 1" Gr8) Use with B3T-180S | 1 |
| 11 | B3T-150 | WASHER (1/2" LOCK Gr8 PLATED) | 1 |
| 12 | B3T-155 | WASHER (1/2" FLAT x 1 3/8" O.D. Gr8 PL.) | 1 |
| 13 | B3T-105 | ZERK | 2 |
| 14 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 15 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

# EXTERNAL MOUNT

## B3500-20

UNIVERSAL MOUNT (SLOT HOUSING)



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-20

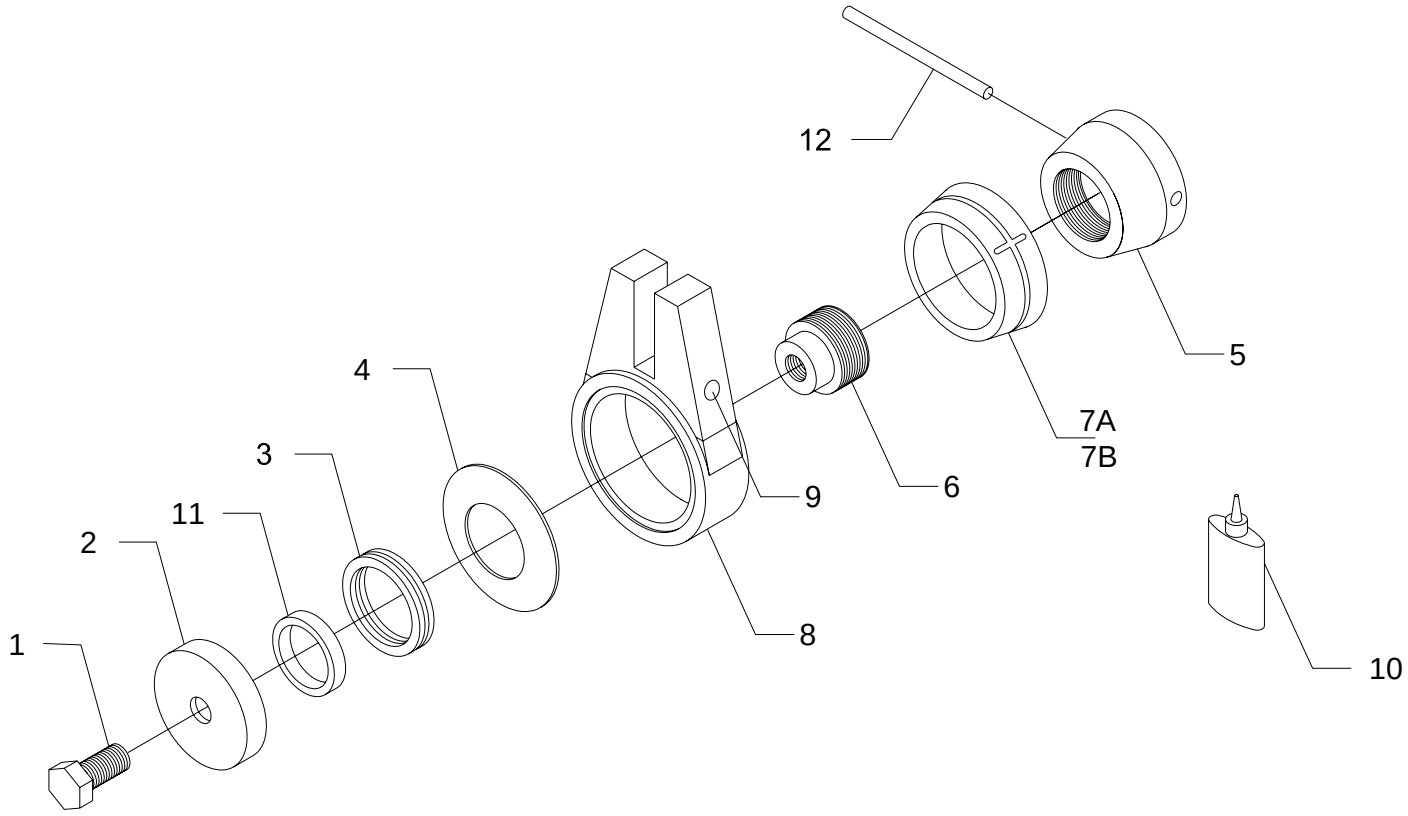
UNIVERSAL MOUNT (SLOT HOUSING)

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4”-16 x 2 1/2” Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-400 | CORE (3 1/4" I.D.) | 1 |
| 6 | B3T-405 | PLUG (3 1/4” O.D. 3/4” BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-175 | STUD HOUSING (1.030” x 4” DEEP SLOT) | 1 |
| 9 | B3T-105 | ZERK | 2 |
| 10 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 11 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |

# EXTERNAL MOUNT

## B3500-21

UNIVERSAL MOUNT (SLOT HOUSING)



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**500 SERIES**

# EXTERNAL MOUNT

## B3500-21

UNIVERSAL MOUNT (SLOT HOUSING)

| ITEM | PART# | DESCRIPTION | QTY |
|---|---|---|---|
| 1 | B3T-1340 | BOLT (3/4”-16 x 2 1/2” Gr8 ZN) REPLACES B3T-120 | 1 |
| 2 | B3T-135 | END CAP | 1 |
| 3 | B3S-155 | BEARING, INCLUDES B3T-605 SEAL | 1 |
| 4 | B3T-540 | SPRING WASHER, # 1 CONCAVE TO HOUSING, 2 & 3 CONCAVE, FACE TO FACE | 3 |
| 5 | B3T-530 | CORE (3 1/4" I.D. W/ CROSSHOLE) | 1 |
| 6 | B3T-405 | PLUG (3 1/4” O.D. 3/4” BOLT) | 1 |
| 7 | B3T-390G | FRICTION SLEEVE (ZINC ALLOY ZA12) | 1 |
| OPT. | B3T-595 | FRICTION SLEEVE (COMPOSITE MATERIAL) | 1 |
| 8 | B3T-175 | STUD HOUSING (1.030” x 4” DEEP SLOT) | 1 |
| 9 | B3T-105 | ZERK | 2 |
| 10 | B3T-575 | SLEEVE RETAINER LOCTITE 620 OR EQUIVALENT | 1 |
| 11 | B3T-605 | SEAL, INCLUDED WITH B3S-155 BEARING | 1 |
| 12 | B3T-310 | ROLL PIN (1/2” x 5”) | 1 |