Salsco, INC.
LEADER BY DESIGN

MADE IN THE U.S.A

# OPERATORS AND PARTS MANUAL
# 40" SHAVING MILL

**MANUFACTURER OF OUTDOOR POWER EQUIPMENT**
**Products for Turf & Lawncare, Rental, Construction, Tree care, Wood Processing, Nursery & Farm Industries**
*Other Salsco Equipment*

**3-1/2" - 18", Gas, Diesel, and P.T.O, Wood/Brush Chippers**
**Chipper Shredder Vacuums - Tailgate & Truckloader Vacuums**
**Shavings Conveyors - Blade Sharpener - Shavings Re-Sizer**

***Quality of Workmanship, Innovative Design, Built to Last!***

**105 School House Road**
**Cheshire, CT 06410 U.S.A.**
**800-872-5726, 203-271-1682, 203-271-2596 (Fax)**
**sales@salsco.com, www.salsco.com**

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**40" SHAVING MILL**




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## STATEMENT OF FACT

You have just purchased the highest quality, most dependable, Shaving Mill, on the market today. This unit has the ability to meet exact standards and perform for years with minimum downtime. HOWEVER, it cannot read nor will it understand this manual no matter how long you leave it on top of the machine.

**It is your responsibility** to read and understand this manual; it is also your responsibility to be certain this information is passed along to anyone who is expected to operate this equipment. Should you choose not to read, understand and pass along the information provided you, please expect equipment failure and possible injuries to persons around this equipment.

For the safety of the operator, it is **imperative** that this manual is carefully read and understood.

Once you have read this manual, it is your responsibility to be sure that all new operators read and understand this manual, especially all cautions stated.

As a manufacturer of equipment, we have a responsibility to design a safe piece of equipment. NOTE: The important safeguards and instructions in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution, and care are factors, which cannot be built into any product. These factors must be supplied by the person(s) caring for and operating this equipment.

## ONLY YOU CAN PREVENT ACCIDENTS!!

## MACHINE REGISTRATION

MANUFACTURED BY: SALSCO, INC.
105 School House Rd., Cheshire, CT 06410
800-872-5726, 203-271-1682, 203-271-2596 (Fax)
sales@salsco.com www.salsco.com

THIS MANUAL COVERS MODEL (s): 40" Shaving Mill

This company reserves the right to discontinue, add improvements to, or change the design of any model or product at any time without obligation to improve existing machines, either by changing the design or adding new parts.

It has been and will continue to be the policy of SALSCO to update existing machines at its own discretion. Whenever possible, new designs will be made in such a way that they can be "Retro Fit" if so desired.

Record in the space provided below the model and serial number of this unit. Please retain these numbers for future reference.

No parts orders will be accepted **WITHOUT MODEL NUMBERS OR PART NUMBERS.** All part numbers are listed in this manual.

_____ _____
Serial Number Model Number

NOTE: Be sure to complete your warranty card. This will insure immediate processing of any warranty claims.

**READ AND UNDERSTAND THIS MANUAL BEFORE STARTING THE MACHINE**

1/06

# MAINTENANCE/SERVICE

A. Daily greasing is required and remote grease fittings are located in various spots on the unit. These locations are marked with decals and care should be taken to insure none of the grease points are missed.

B. Chain tension.

a. 20" mill

i. Under the engine on this unit you will see an idler sprocket for the main box chain. The only regular maintenance to this assembly should be greasing and inspection. If you ever change the main chain or have a bearing failure on this shaft be sure the sprocket is set so the main chain is not touching the deck.

1. For the front of the 30"/40" shaving mills please refer to step ii.4.

ii. At the rear of the unit you will find the drive set up which moves the box. This is also where you tension the main drive chain if needed.

1. Remove the top section of the orange guard exposing the drive system.
2. Loosen the jam nut and pusher bolt against the drive motor.
3. Loosen the drive motor pivot bracket putting slack in the chain between the drive motor and the jackshaft number 13.
4. On jackshaft number 13 loosen the jam nuts and pusher bolts on the front side of the bearings. Don't touch the rear pusher bolts yet. Loosen the bearing mounting bolt enough so you slide the jackshaft. Now loosen the rear jam nuts and use the rear pusher bolts to slide the jackshaft assembly in turn tensioning the chain from the rear jackshaft to the front jackshaft. Once this chain is tight lock down the rear jam nuts, and then lock down the bearing bolts; now bring the front pusher bolts against the bearings and lock down the jam nuts.
5. Now, tension the chain from the front jackshaft to the drive motor by reversing steps 3 & 2.
6. As with the front of the unit the height of the sprocket assembly carrying the main chain should not be changed from the original factory setting.
7. Tensioning the main drive chain, which moves the box, is done at the rear drive assembly. Once you have tensioned all of the chains in this drive assembly and locked them down in the fashion indicated in this procedure you are ready to tension the main drive chain. The rear drive assembly is mounted on an orange frame, which slides on the main frame for the unit as indicated, by number 5 in

diagram 11. If you loosen the four bolts which hold the orange mounting frame #5 to the unit's mainframe, this will allow the mounting frame to slide. Loosen the jam nut on the pusher/puller bolt (number 11 diagram #11) and turn the pusher bolt to slide the rear drive assembly to tension the main drive chain. As long as the chain doesn't touch the deck you are fine. Lock down the jam nut on the pusher/puller bolt, the bolts holding down the rear drive assembly and replace the guards and you will be ready to go.

C. Belt tension, there are two belt systems which are typical to the 20", 30" & 40" Shavings mills.

a. Cutter head to engine belt system, diagram 7.

i. First remove the guards. This will make it much easier to tension these belts properly. Start at the cutter shaft and work towards the engine.

ii. **(Note: Use the following procedure for each of the jackshaft assemblies.)** Loosen the jam nuts and pusher bolts on the engine side; loosen the bearing mounting bolts so the jackshaft assembly can slide. Now, use the pusher bolts on the cutter shaft side to slide the jackshaft to tension the belt using the 3/8 rule. Lock down the cutter shaft side jam nuts and pusher bolts, bearing bolts and engine side pusher bolts and jam nuts.

iii. Now that you have tensioned all of the belts from the cutter shaft up towards the engine, tension the last belt that runs from the last jack shaft to the engine by sliding the engine. Loosen the engine mounting bolts, the jam nuts and the pull/push bolts on the front of the engine mounting area to slide the engine and tension the belt. Be sure to use the 3/8 rule when tensioning this belt.

**Note: While these guards are off check the tension of the blower drive system.**

iv. **IT IS IMPARATIVE THAT YOU REPLACE AND SECURE ALL GUARDS PRIOR TO OPERATION OF THIS UNIT. RUNNING THIS UNIT WITH OUT GUARDS IN PLACE CAN CAUSE SERIOUS INJURY OR DEATH.**

b. Blower assembly belt tensioning, diagram 7.

i. First you need to remove the guards. This will make it possible to tension the belts properly.

ii. On the back of the actual blower loosen the bolts holding it to the drop out trough. Loosen the pusher bolt on the top right corner of the blower. This will allow you to relieve the tension on the belt running from the blower to the jackshaft.

iii. Now to tension the belts from the cutter shaft to the jackshaft use the same procedure in step C.a.ii.
iv. Now that the belt is tight from the cutter head to the jackshaft reverse the procedure on loosening the blower housing to tension the belt from the jackshaft to the blower.
v. Once the belts are tight, using the 3/8 rule, and all the bolts are retightened you are ready to replace the guards.

vi. **IT IS IMPARATIVE THAT YOU REPLACE AND SECURE ALL GUARDS PRIOR TO OPERATION OF THIS UNIT. RUNNING THIS UNIT WITH OUT GUARDS IN PLACE CAN CAUSE SERIOUS INJURY OR DEATH.**

D. Wood Box Travel Adjustment Diagram #12
   a. By moving plates # 1 & 9 you can adjust how far the box travels relative to the cutter head.
   **NOTE: USE CAUTION WITH THIS ADJUSTMENT. TEST YOUR ADJUSTMENT WITH THE CUTTERHEAD DISENGAGED TO BE SURE THE BOX IS NOT TRAVELING OVER THE CUTTERHEAD. EXTENSIVE DAMAGE WILL BE CAUSED IF THE BOX TRAVELS INTO THE CUTTERHEAD !!!!**

E. Crossover Relief Valve
   a. The relief valve shown as #14 on diagram #14 has two screws for adjustment on the top and bottom of the valve. Each complete turn of the screw represents 150 psi of hydraulic pressure. Factory settings are set at 4 turns or 600 psi for both the top and bottom screw. This setting should not be changed with out contacting a Salsco service representative.

F. Blade Maintenance
   a. The blades on this unit must be inspected weekly and serviced accordingly.
   b. Removing the blades (be sure to count the number of exposed grooves on the back of the blades)
      i. First either run the box over the cutter head (follow the procedure marked Accessing the Cutter Head) or work inside of the box.
      ii. Clean out the allen head screws.
      iii. Loosen one set of screws a few turns and tap the keepers for that blade down. Be sure to use a piece of brass or soft material that will not damage the keepers. By loosening the screws and tapping down the keepers you will loosen the blade. Remove and replace all the blades in this pocket. Be sure to set them to factory specs of 1/8 inch above the deck.

# Maintenance Schedule for Salsco Shaving Mills

## Electric and Diesel 20” thru 60”

**General Notes:** This maintenance schedule is to be used in conjunction with your operators/service manual.

Daily service: Every 8 hours of operation

- Grease all Bearings (including but not limited to the following)
    - Cutter head bearings
    - Belt drive system
    - Chain drive system
    - Wood box wheels
    - Wood box switcher grease points
    - Clutch grease points (if equipped with diesel engine and clutch set up)

**Note: While using remote greasing system be sure to check the operation of system if there is any change in required pressure when pumping grease.**

- Engine oil level
- Hydraulic fluid level
- Any and all daily service recommended by engine manufacturer

**Weekly service: Every 40 hours of operation**

- Check and adjust all belt tension
- Check and adjust all chain tension
- Check cutter head blades change the blades if they are dull

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| X | XXXXXXXXXXXXXXXXX | XXXXXX | X |

ISSUED: 01-24-2008

| REVISIONS | | |
|---|---|---|
| REV | DESCRIPTION | DATE |
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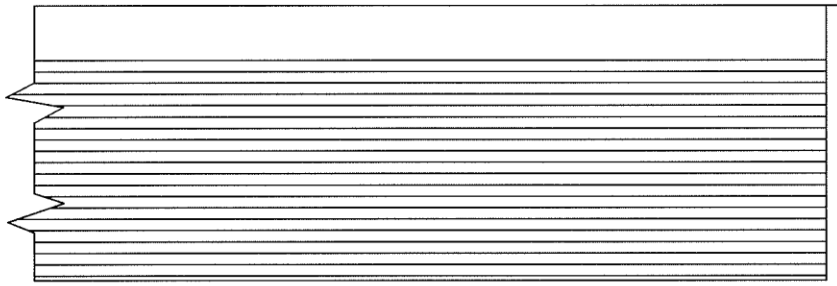

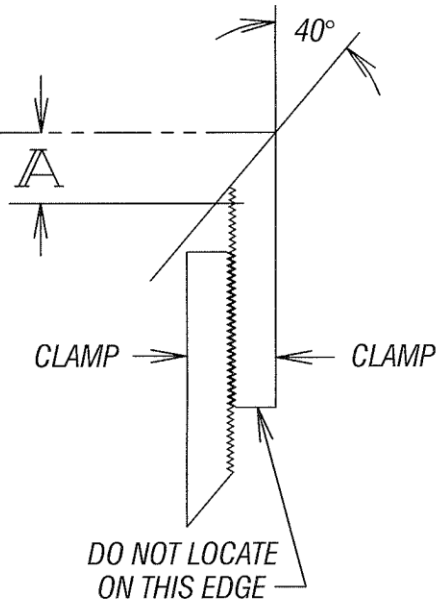


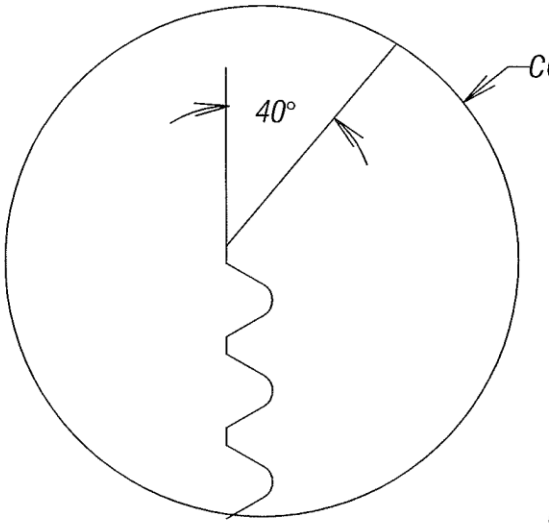


NOTE — DISTANCE A MUST BE CONTROLLED FROM CORRUGATED GROOVE (AS SHOWN), AND BE THE SAME ON ALL BLADE KNIVES

BLADE KNIFE - FOR SALSCO SHAVING MILL

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| X | 40" SHAVING MILL ASSY | 0014040 | X |

ISSUED: 06-15-2010

| REVISIONS | | |
|---|---|---|
| REV | DESCRIPTION | DATE |
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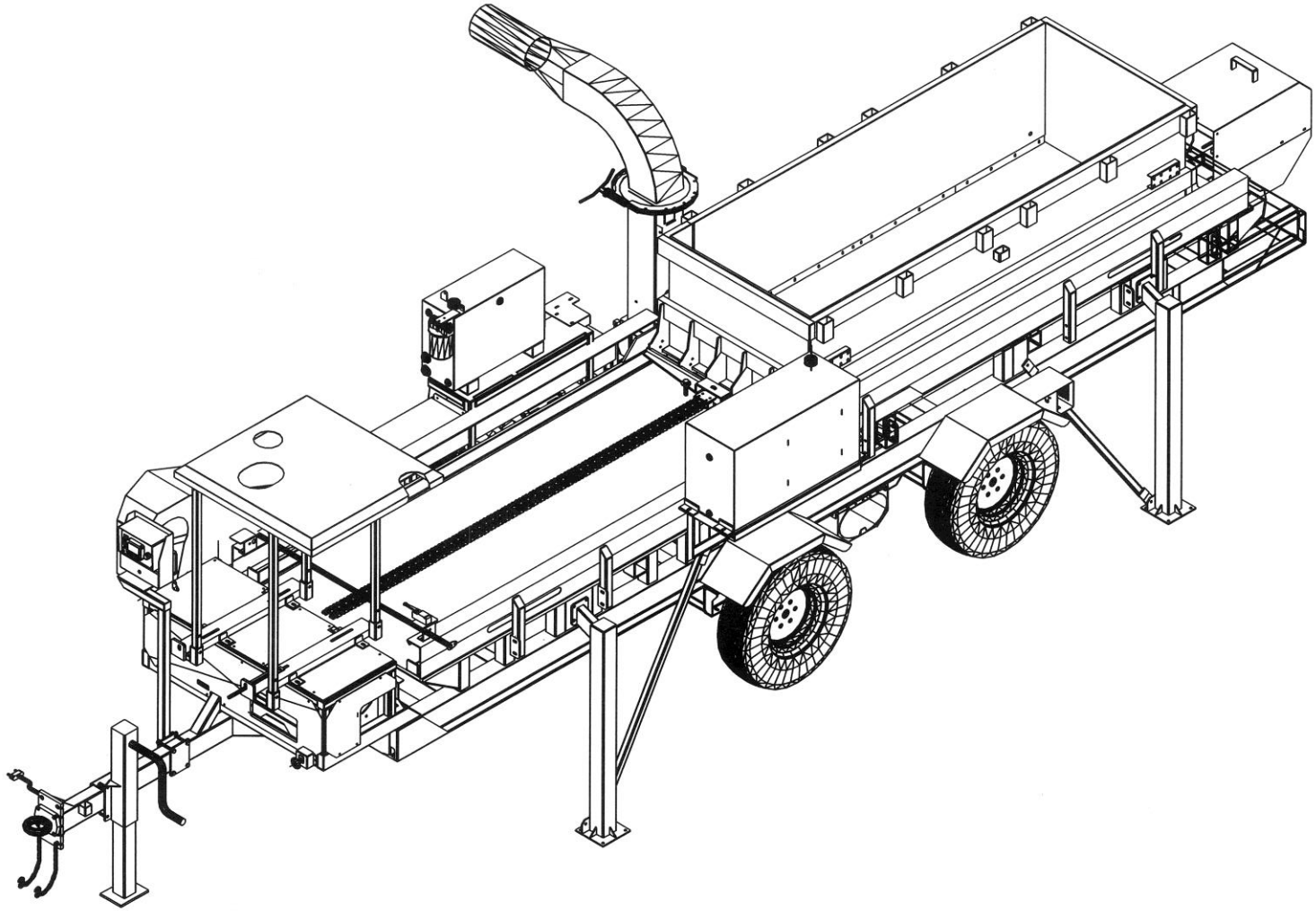

ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #1

ISSUED: 06-15-2010

| REVISIONS | | |
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| REV | DESCRIPTION | DATE |
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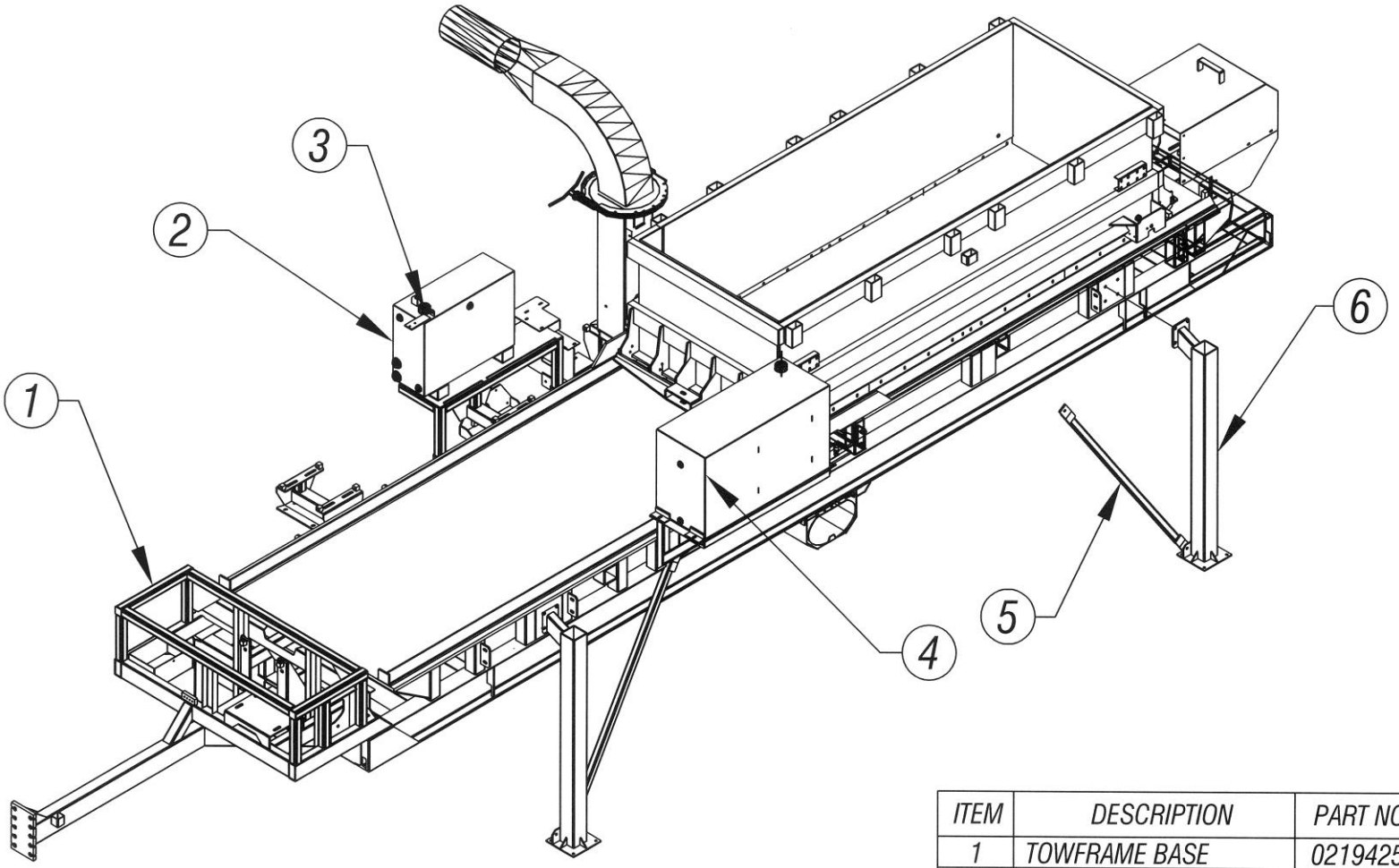


| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | TOWFRAME BASE | 0219425 | 1 |
| 2 | TANK, HYDRAULIC | 0252098 | 1 |
| 3 | CAP, FUEL/OIL LOCKING | 0271024 | 2 |
| 4 | TANK, FUEL | 0252073 | 1 |
| 5 | STAND, BRACE | 0273024 | 4 |
| 6 | STAND, BASE SUPPORT | 0273018 | 4 |

ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #2

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | TOWFRAME, BASE | 0219425 | 1 |
| 2 | MOUNT, FENDER - RIGHT FRONT | 0276657 | 1 |
| 3 | FENDER - RIGHT FRONT | 0216052 | 1 |
| 4 | FENDER - RIGHT REAR (WITH TAILLIGHT) | 0216042 | 1 |
| 5 | MOUNT, FENDER - RIGHT REAR | 0276440 | 1 |
| 6 | BRACKET, LICENSE PLATE MOUNTING | 0406648 | 1 |
| 7 | LICENSE PLATE LIGHT | 0315276 | 1 |

ISSUED: 06-15-2010

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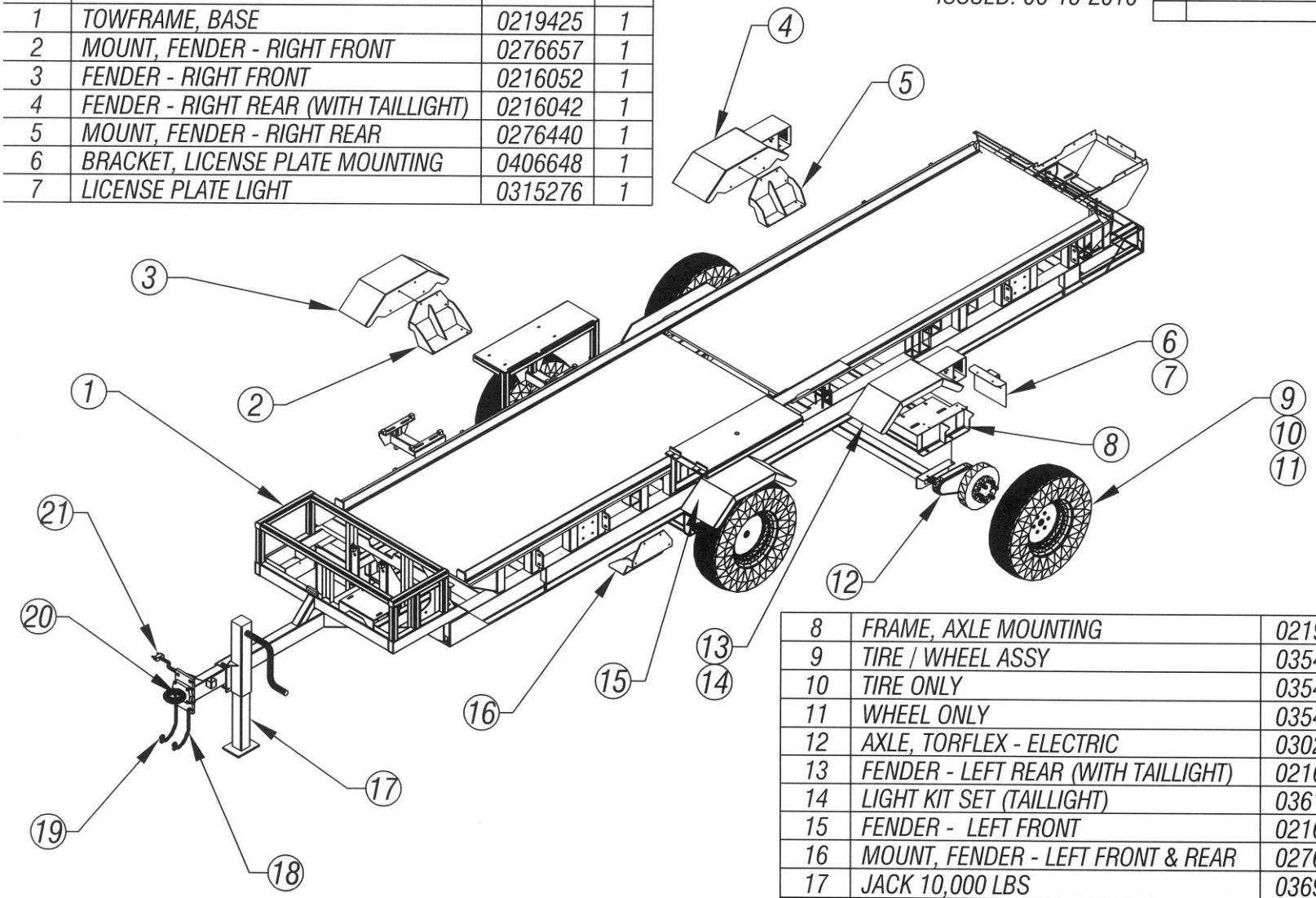
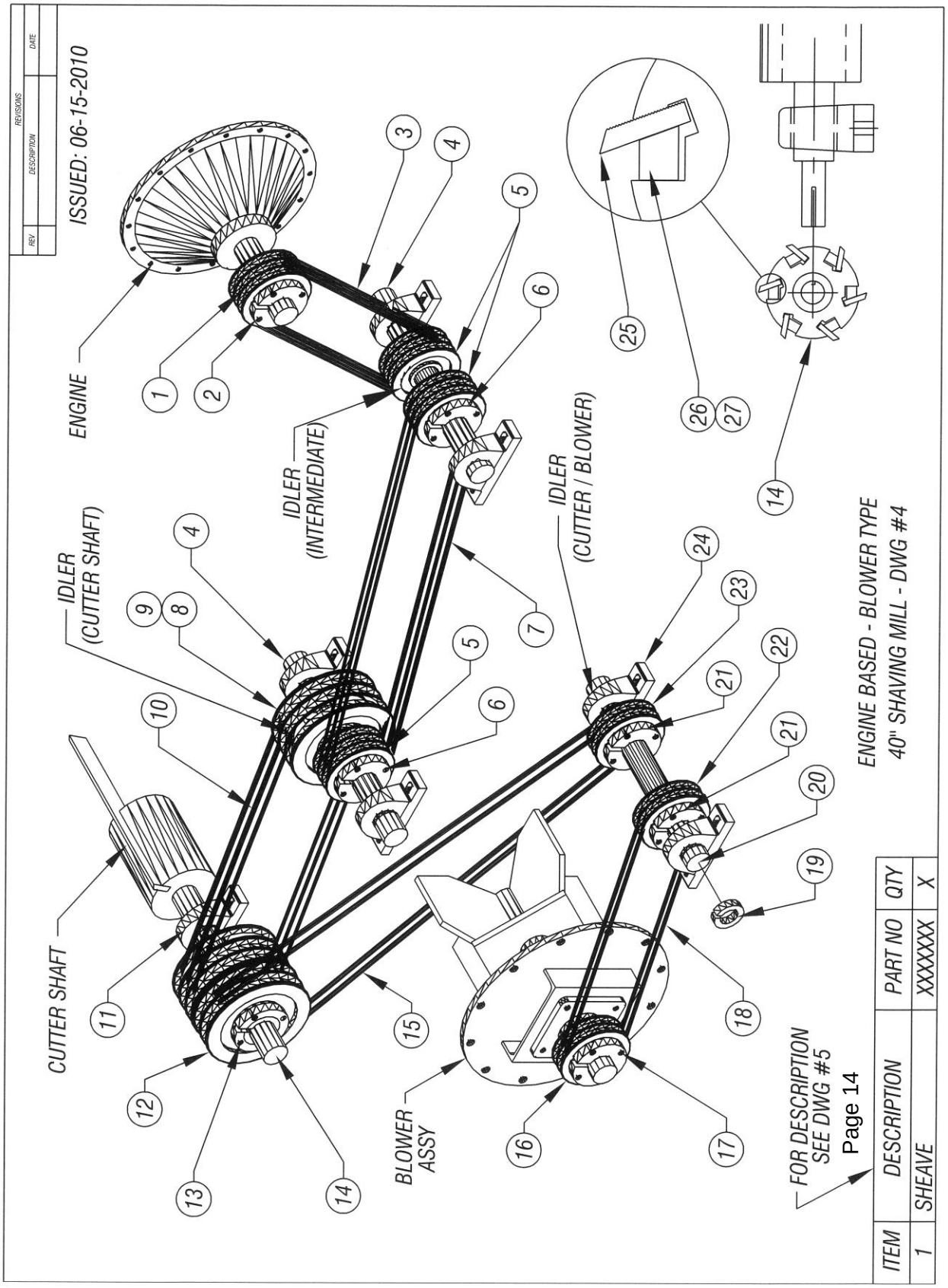



ENGINE BASED - DUAL AXLE & WHEELS OPTION
40" SHAVING MILL - DWG #3

| | | | |
|---|---|---|---|
| 8 | FRAME, AXLE MOUNTING | 0219301 | 2 |
| 9 | TIRE / WHEEL ASSY | 0354123 | 4 |
| 10 | TIRE ONLY | 0354121 | 4 |
| 11 | WHEEL ONLY | 0354122 | 4 |
| 12 | AXLE, TORFLEX - ELECTRIC | 0302106 | 2 |
| 13 | FENDER - LEFT REAR (WITH TAILLIGHT) | 0216043 | 1 |
| 14 | LIGHT KIT SET (TAILLIGHT) | 0361006 | 2 |
| 15 | FENDER - LEFT FRONT | 0216044 | 1 |
| 16 | MOUNT, FENDER - LEFT FRONT & REAR | 0276648 | 2 |
| 17 | JACK 10,000 LBS | 0369032 | 1 |
| 18 | SAFETY CHAIN | 0309056 | 2 |
| 19 | SAFETY HOOK | 0309057 | 2 |
| 20 | PINTLE RING | 0325077 | 1 |
| 21 | BREAK-A-WAY SWITCH | 0302030 | 1 |

****ITEM # 11 – PAY SPECIAL ATTENTION TO MANUFACTURERS LUBRICATION GUIDELINES ON PAGES 15 – 16 OF THIS MANUAL.



| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | SHEAVE - 7.15 OD (ENGINE) | 0342200 | 1 |
| 2 | BUSHING - 2.5 ID (ENGINE) | 0342158 | 1 |
| 3 | V-BELT - 136" (ENGINE TO IDLER-INTERMEDIATE) | 0304148 | 1 |
| 4 | JACK SHAFT, CUTTER SHAFT IDLER AND INTERMEDIATE IDLER | 0448187 | 2 |
| 5 | SHEAVE - 6.35 OD (INTERMEDIATE IDLER AND CUTTER SHAFT IDLER) | 0342199 | 3 |
| 6 | BUSHING (INTERMEDIAT IDLER AND CUTTER SHAFT IDLER) | 0342148 | 3 |
| 7 | V-BELT BANDED - (123") (CUTTER IDLER TO INTERMEDIATE IDLER) | 0304134 | 1 |
| 8 | SHEAVE - 9.75 OD (CUTTER SHAFT IDLER) | 0342196 | 1 |
| 9 | BUSHING - 1.5 ID (CUTTER SHAFT IDLER) | 0342148 | 1 |
| 10 | V-BELT BANDED - (111") (CUTTER SHAFT IDLER TO CUTTER SHAFT) | 0304133 | 1 |
| 11 | BEARING, PILLOW BLOCK - 3.5" BORE (CUTTER SHAFT) | 0303084 | 2 |
| 12 | SHEAVE - 11.35 OD (CUTTER SHAFT) | 0342198 | 1 |
| 13 | BUSHING - 2.5 ID (CUTTER SHAFT) | 0342084 | 1 |
| 14 | CUTTER SHAFT | 0348266 | 1 |
| 15 | V-BELT COG BANDED - (61") (IDLER CUTTER / BLOWER TO CUTTER) | 0304149 | 1 |
| 16 | SHEAVE - 9.75 0D (BLOWER) | 0342027 | 1 |
| 17 | BUSHING - 1.437 ID (BLOWER) | 0342187 | 1 |
| 18 | V-BELT COG BANDED (76") (BLOWER IDLER TO BLOWER) | 0304150 | 1 |
| 19 | COLLAR, SINGLE SPLIT | 0311032 | 10 |
| 20 | JACK SHAFT, (IDLER CUTTER / BLOWER) | 0448157 | 1 |
| 21 | BUSHING - 1.5 ID (IDLER CUTTER / BLOWER ) | 0342045 | 2 |
| 22 | SHEAVE - 8.95 OD (IDLER CUTTER / BLOWER TO BLOWER) | 0342046 | 1 |
| 23 | SHEAVE - 9.75 OD (IDLER CUTTER / BLOWER TO CUTTER SHAFT) | 0342027 | 1 |
| 24 | BEARING, PILLOW BLOCK 1 1/2 BORE (IDLER CUTTER / BLOWER) | 0303057 | 6 |
| 25 | CHIP BLADES ON CUTTER SHAFT (CORRUGATED BACK) | 0305152 | 10 |
| 26 | KEEPERS (RETAINERS) | 0370137 | 20 |
| 27 | SOC. SET SCREWS-HALF DOG | 0346277 | 40 |

| REVISIONS | | |
|---|---|---|
| REV | DESCRIPTION | DATE |
| | | |

ISSUED: 06-15-2010

ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #5

**PAY SPECIAL ATTENTION TO " TABLE 5 - SUGGESTED LUBRICATION INTERVALS IN WEEKS" ON PAGE 2**

# INSTRUCTION MANUAL
# DODGE® GRIP-TIGHT ADAPTER MOUNT BALL BEARINGS

**⚠ WARNING**

To ensure that drive is not unexpectedly started, turn off, lock out, and tag power source before proceeding. Failure to observe these precautions could result in bodily injury.

## Shaft & Mounting Surface Inspection

Shaft should be smooth, straight, & within commercial tolerances (Table 1). Remove burrs & align mounting surfaces within 2 degrees.

**Table 1 - Shaft Tolerances**

| Shaft Size (in) | Commercial Shaft Tolerances (in) |
|---|---|
| Up to 1 1/2" | +0.000" / - 0.002" |
| 1 5/8" - 2 1/2" | +0.000" / - 0.003" |
| 2 11/16" - 3 7/16" | +0.000" / - 0.004" |

## Assemble Adapter & Bearing

1) If the locknut is loose from the bearing,
FIRST place locknut into bearing inner ring groove,
THEN insert adapter into bearing bore until it rests against the locknut.
Rotate locknut clockwise to engage adapter sleeve.

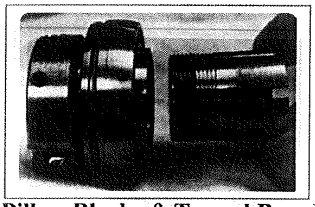


**Table 3 - Locknut Rotation From Handtight**

| Series | Shaft Size GT (Normal Duty) | Shaft Size GTM (Medium Duty) | Locknut Rotation |
|---|---|---|---|
| 203 - 204 | 1/2" - 3/4"<br>17 - 20 mm | ---<br>--- | 1/2 Turn |
| 205 - 210 | 7/8" - 1 3/4"<br>25 - 45 mm | 3/4" - 1 1/2"<br>20 - 40 mm | 2/3 Turn |
| 211 - 218 | 1 15/16" - 2 15/16"<br>50 - 75 mm | 1 11/16" - 3 1/2"<br>45 - 85 mm | 1 Turn |

## Pillow Blocks & Tapped Base Housings

NOTE: For Tapped Base (TB) housings drill mounting holes with 1/16" minimum bolt clearance to assist with proper installation.

2) During installation it is best practice is to remove all of the weight from the bearing via slings or jacks. However, if it is difficult to remove all weight then insure the dead weight on the bearing during installation does not exceed the values listed in Table 2.

**Table 2: Maximum Dead Load On Bearing During Installation**

| | Maximum Dead Load Per Bearing |
|---|---|
| Series | (lbs) |
| 203-206 | 60 |
| 207-210 | 65 |
| 211-214 | 70 |
| 215-218 | 75 |

3) Slide the unit into position onto the shaft. If the unit will not slip onto the shaft, turn locknut counter-clockwise to expand adapter sleeve.

4) Wearing gloves, rotate locknut clockwise, by hand, as tight as possible until adapter sleeve grips and does not spin on the shaft or move axially. If needed, tap on locknut outer diameter while turning locknut to assist with this step. Scribe the line on the locknut above the adapter sleeve slot.

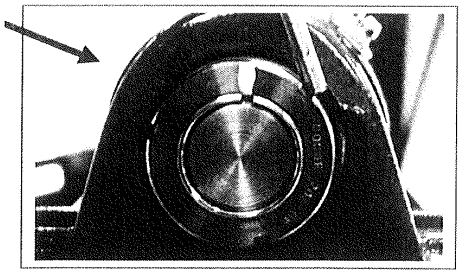
5) Lock bearing to shaft by rotating locknut, with a spanner wrench or brass bar & hammer, clockwise by amount shown in Table 3. NOTE: The use of air chisels is not recommended.

6) Center housing & mounting bolts over mounting holes & tighten bolts to proper torque (Table 4). Tighten locknut setscrew until 3/32" Allen key bends (25 in-lbs).

7) Repeat above steps for mounting 2nd housing. Do not tighten mounting bolts on 2nd housing until second bearing has been completely locked to the shaft. Bolts must fit freely between housing & mounting surface. If the mounting bolts do not fit freely, loosen mounting bolts on both housings & center both units. If the bolts still will not fit freely, remove one unit from the shaft, reposition housing, & reinstall.

**Table 4 - Mounting Bolt Torque (in-lbs)**

| Metal Housings | | Non-Metallic Polymer Housing | | | |
|---|---|---|---|---|---|
| All Housing Types | | Pillow Block, 2 & 4 Bolt Flange, Flange Bracket | | Tapped Base | |
| Bolt Size (in) | Dry Torque (in lbs) | Bolt Size (in) | Dry Torque (18-8 Stainless) (in lbs) | Bolt Size (in) | Dry Torque (18-8 Stainless) (in lbs) |
| 3/8 | 240 | 3/8 | 225 | 3/8 | 175 |
| 7/16 | 384 | 7/16 | 350 | 7/16 | 350 |
| 1/2 | 600 | 1/2 | 500 | 1/2 | 400 |
| 5/8 | 1200 | 9/16 | 650 | | |
| 3/4 | 2100 | 5/8 | 1000 | | |
| 7/8 | 2040 | | | | |



**⚠ WARNING**

Because of the possible danger to person(s) or property from accidents which may result from the improper use of products, it is important that the correct procedure be followed. Products must be used in accordance with the engineering information specified in the catalog. Proper installation, maintenance, and operating procedures must be observed. The instructions in the instruction manuals must be followed. Inspections should be made as necessary to ensure safe operation under prevailing conditions. Proper guards and other suitable safety devices or procedures as may be desirable or as may be specified in safety codes should be provided, and are neither provided by Baldor Electric Company nor are the responsibility of Baldor Electric Company. This unit and its associated equipment must be installed, adjusted, and maintained by qualified personnel who are familiar with the construction and operation of all equipment in the system and potential hazards involved. When risk to persons or property may be involved, a holding device or shear bars must be an integral part of the driven equipment.

## All Flange Housings

**WARNING: Special attention to the installation procedure for flange bearings is necessary to maintain the proper internal clearance & achieve maximum life. The installation of the first flange differs from the installation of the second flange.**

(See step 1 Assemble Adapter & Bearing page 1)

2) During installation it is best practice is to remove all of the weight from the bearing via slings or jacks. However, if it is difficult to remove all weight then insure the dead weight on the bearing during installation does not exceed the values listed in Table 2.

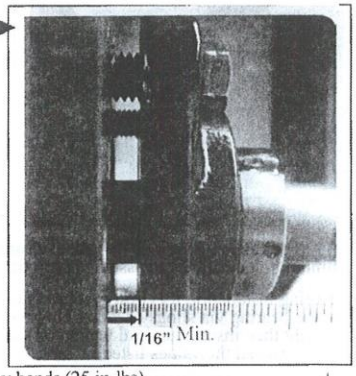
3) Slide the FIRST unit into position onto the shaft. If the bearing will not slip onto the shaft or more axially, turn locknut counter clockwise to expand adapter sleeve.

4) (Using gloves) rotate locknut clockwise by hand until it is tight & adapter sleeve grips & does not spin on the shaft. This is the starting point. Scribe a line on the locknut above the adapter sleeve slot.
**(If needed, tap on locknut outer diameter while turning locknut to assist with this step.)**

5) Lock bearing to shaft by rotating locknut, with a spanner wrench or brass bar & hammer, clockwise by amount shown in Table 2.
NOTE: The use of air chisels is not recommended.

6) Tighten locknut setscrew until 3/32" Allen key bends (or 25 in-lbs). Tighten housing bolts to proper torque (Table 3).

7) Slide the **SECOND** flange onto the shaft and hand tighten as in step 4 but leave 1/16" minimum gap between the flange housing & the mounting surface. See picture to the right.




8) It is important to note that the 1/16" minimum gap between the flange housing and the mounting surface must be maintained while getting the bearing hand tight to the shaft. Wearing gloves, rotate the locknut clockwise, by hand, until adapter sleeve grips and does not spin or move axially on the shaft. If needed, tap on the locknut outer diameter while turning the locknut to assist with this step. At this point you should have difficulty in rotating the locknut by hand and you should not be able to move the bearing axially along the shaft by hand. If the bearing can be moved axially along the shaft by hand then continue rotating the nut gradually until it grips the shaft. Scribe a line on the locknut above the adapter sleeve slot.

9) Insert housing bolts & pull the housing flush with mounting surface by alternately tightening the bolts to the proper torque (Table 4).

10) Lock bearing to shaft by rotating locknut, with a spanner wrench or drift pin & hammer, clockwise by amount shown in Table 3. Tighten locknut setscrew until 3/32" Allen key bends (25 in-lbs).

11) Rotate the shaft by hand, no binding or excessive drag should be felt. If excessive drag is felt, loosen the second bearing & reinstall starting at step 8.

## Dismounting All Units

1) Remove all weight from the bearing via slings or jacks & secure the shaft from rotation.

2) **LOOSEN THE HOUSING MOUNTING BOLTS & COMPLETELY REMOVE SETSCREW IN THE LOCKNUT.**

3) Rotate locknut counter clockwise with spanner wrench or drift pin & hammer until bearing is free.

**Table 5 - Suggested Lubrication Intervals in Weeks**

| Hours Run Per Day | RPM 1 to 250 RPM | 251 to 500 RPM | 501 to 750 RPM | 751 to 1000 RPM | 1001 to 1500 RPM | 1501 to 2000 RPM | 2001 to 2500 RPM | 2500 to Max RPM |
|---|---|---|---|---|---|---|---|---|
| 8 | 12 | 12 | 10 | 7 | 5 | 4 | 3 | 3 |
| 16 | 12 | 7 | 5 | 4 | 2 | 2 | 1 | 1 |
| 24 | 10 | 5 | 3 | 2 | 1 | 1 | 1 | 1 |

* LUBRICATION: (Use compatible Mobil SHC 220 PM Grease) The Dodge Grip-Tight Bearing has been greased from the factory and is shaft ready. When re-lubricating slowly add grease until fresh grease is seen purging past the seal. In the higher speed ranges excess grease may cause temporary bearing overheating. The amount of grease a bearing will take for a specific high-speed application is best determined by experience. When establishing a re-lubrication schedule, note that a small amount of grease at frequent intervals is preferred to a large amount of grease at infrequent intervals. Lubrication recommendation: Grease every 10 hours. For modified products, high temperature applications, and other anomalous applications contact product engineering at 864-284-5700.

* **SUPERSEDES ALL OTHER LUBRICATION INSTRUCTIONS - 8/13/2010**

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**Baldor - DODGE/Reliance**
6040 Ponders Court, Greenville, SC 29615-4617 U.S.A., Ph: (1) 864.297.4800, FAX: (1) 864.281.2433


IM499312

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | BOX, HOPPER | 0280050 | 1 |
| 2 | BOLT, HEXHEAD (3/4-10 x 4" LG) | 0346632 | 2 |
| 3 | FLAT WASHER, 3/4 USS | 0353106 | 4 |
| 4 | HEX LOCK NUT, 3/4-10 | 0338106 | 2 |
| 5 | ROLLER CHAIN - HOPPER #80 x 50 FT LONG | | 2 ⊗ |
| 6 | BRACKET, HOPPER DRIVE CHAIN | 0206934 | 2 |
| 7 | MOUNT, ADJ.CASTER (L. FRONT/R.R) | 0276711 | 2 |
| 8 | PLASTIC STRIP (UHMW) | 0436131 | 4 |

NOTE:

⊗ CUT FROM BULK #80 ROLLER CHAIN PART #0309066

ISSUED: 06-15-2010

| REVISIONS | | |
|---|---|---|
| REV | DESCRIPTION | DATE |
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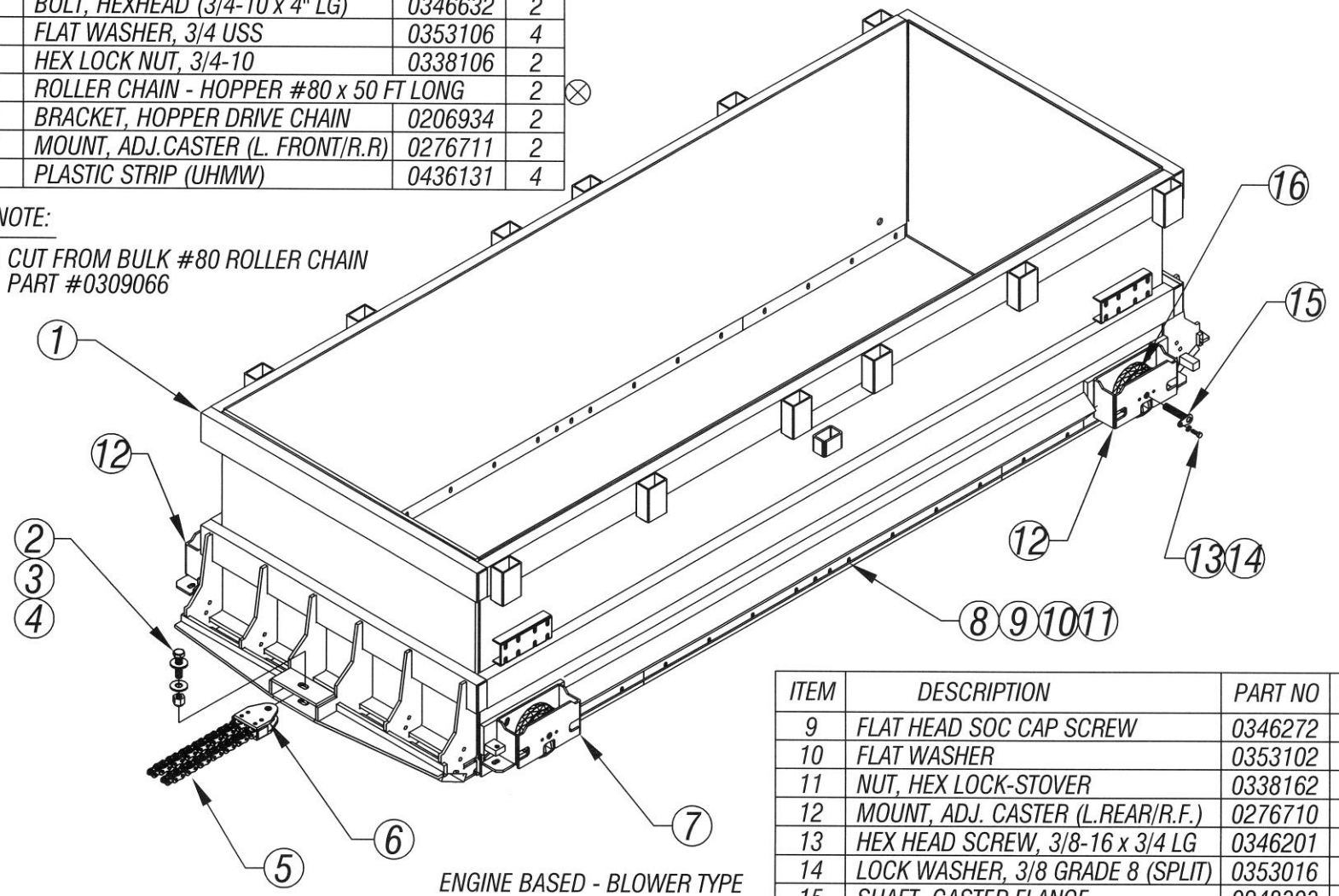



ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #6

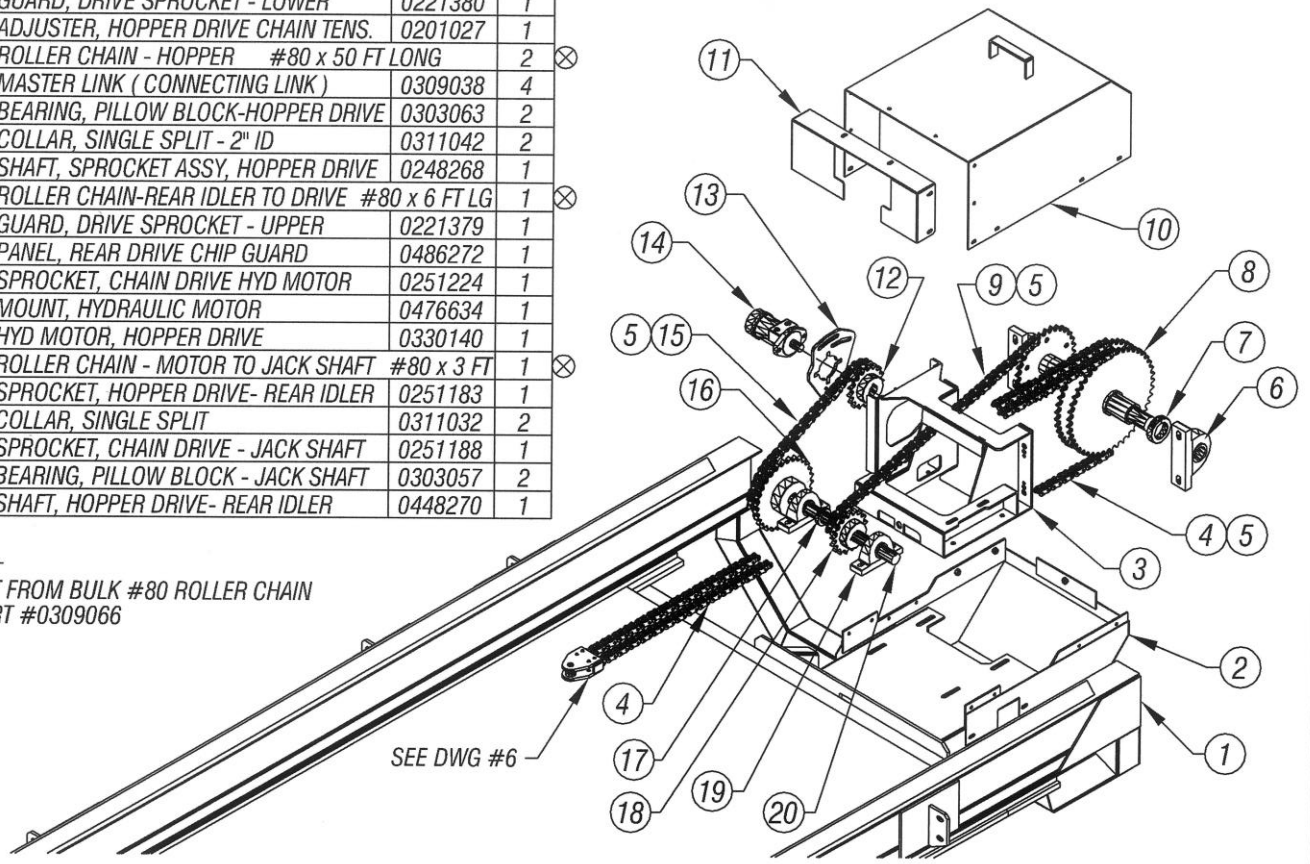
| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 9 | FLAT HEAD SOC CAP SCREW | 0346272 | 32 |
| 10 | FLAT WASHER | 0353102 | 32 |
| 11 | NUT, HEX LOCK-STOVER | 0338162 | 32 |
| 12 | MOUNT, ADJ. CASTER (L.REAR/R.F.) | 0276710 | 2 |
| 13 | HEX HEAD SCREW, 3/8-16 x 3/4 LG | 0346201 | 4 |
| 14 | LOCK WASHER, 3/8 GRADE 8 (SPLIT) | 0353016 | 4 |
| 15 | SHAFT, CASTER FLANGE | 0248303 | 4 |
| 16 | V-GROOVE WHEEL (CASTER) | 0354114 | 4 |
| 17 | BRONZE SLEEVE (REPLACE IN WHEEL) | 0307038 | 4 |

| ITEM | DESCRIPTION | PART NO | QTY | |
|---|---|---|---|---|
| 1 | FRAME, BASE | 0219425 | 1 | |
| 2 | GUARD, DRIVE SPROCKET - LOWER | 0221380 | 1 | |
| 3 | ADJUSTER, HOPPER DRIVE CHAIN TENS. | 0201027 | 1 | |
| 4 | ROLLER CHAIN - HOPPER #80 x 50 FT LONG | | 2 | ⊗ |
| 5 | MASTER LINK ( CONNECTING LINK ) | 0309038 | 4 | |
| 6 | BEARING, PILLOW BLOCK-HOPPER DRIVE | 0303063 | 2 | |
| 7 | COLLAR, SINGLE SPLIT - 2" ID | 0311042 | 2 | |
| 8 | SHAFT, SPROCKET ASSY, HOPPER DRIVE | 0248268 | 1 | |
| 9 | ROLLER CHAIN-REAR IDLER TO DRIVE #80 x 6 FT LG | | 1 | ⊗ |
| 10 | GUARD, DRIVE SPROCKET - UPPER | 0221379 | 1 | |
| 11 | PANEL, REAR DRIVE CHIP GUARD | 0486272 | 1 | |
| 12 | SPROCKET, CHAIN DRIVE HYD MOTOR | 0251224 | 1 | |
| 13 | MOUNT, HYDRAULIC MOTOR | 0476634 | 1 | |
| 14 | HYD MOTOR, HOPPER DRIVE | 0330140 | 1 | |
| 15 | ROLLER CHAIN - MOTOR TO JACK SHAFT #80 x 3 FT | | 1 | ⊗ |
| 16 | SPROCKET, HOPPER DRIVE- REAR IDLER | 0251183 | 1 | |
| 17 | COLLAR, SINGLE SPLIT | 0311032 | 2 | |
| 18 | SPROCKET, CHAIN DRIVE - JACK SHAFT | 0251188 | 1 | |
| 19 | BEARING, PILLOW BLOCK - JACK SHAFT | 0303057 | 2 | |
| 20 | SHAFT, HOPPER DRIVE- REAR IDLER | 0448270 | 1 | |

NOTE:

⊗ CUT FROM BULK #80 ROLLER CHAIN
PART #0309066

~~ISSUED: 11-10-2010~~
ISSUED: 04-24-2012




HOPPER DRIVE - REAR
40" SHAVING MILL - DWG #7

| ITEM | DESCRIPTION | PART NO | QTY | |
|---|---|---|---|---|
| 1 | BEARING,PILLOW BLOCK-HOPPER DRIVE | 0303063 | 2 | |
| 2 | SPLIT COLLAR - 2" ID | 0311042 | 2 | |
| 3 | SHAFT, SPROCKET ASSY, HOPPER DRIVE | 0248268 | 1 | |
| 4 | ROLLER CHAIN - FRONT IDLER TO DRIVE | #80 x 3FT | 1 | ⊗ |
| 5 | MASTER LINK ( CONNECTING LINK ) | 0309038 | 2 | |
| 6 | HEX HD CAP SCREW ( 3/8-16 x 2 1/2 ) | 0346265 | 4 | |
| 7 | JAM NUT, HEX ( 3/8-16 ) | 0338052 | 4 | |
| 8 | SHAFT, FRONT IDLER DRIVE | 0248291 | 1 | |
| 9 | PLATE, IDLER FRONT | 0262868 | 1 | |
| 10 | BEARING, PILLOW BLOCK - JACK SHAFT | 0303057 | 2 | |
| 11 | SPROCKET,HOPPER DRIVE-FRONT IDLER | 0251183 | 1 | |
| 12 | SPROCKET, CHAIN DRIVE HYD MOTOR | 0351184 | 1 | |
| 13 | MOUNT, HYDRAULIC MOTOR | 0476634 | 1 | |
| 14 | HYDRAULIC MOTOR, HOPPER DRIVE | 0330140 | 1 | |
| 15 | ROLLER CHAIN - MOTOR TO JACK SHAFT | #80 x 4 FT | 1 | ⊗ |
| 16 | SPLIT COLLAR - 1 1/2" ID | 0311032 | 2 | |
| 17 | GREASE FITTINGS | 0317148 | 36 | |

ISSUED: 06-15-2010

| REVISIONS | | |
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| REV | DESCRIPTION | DATE |
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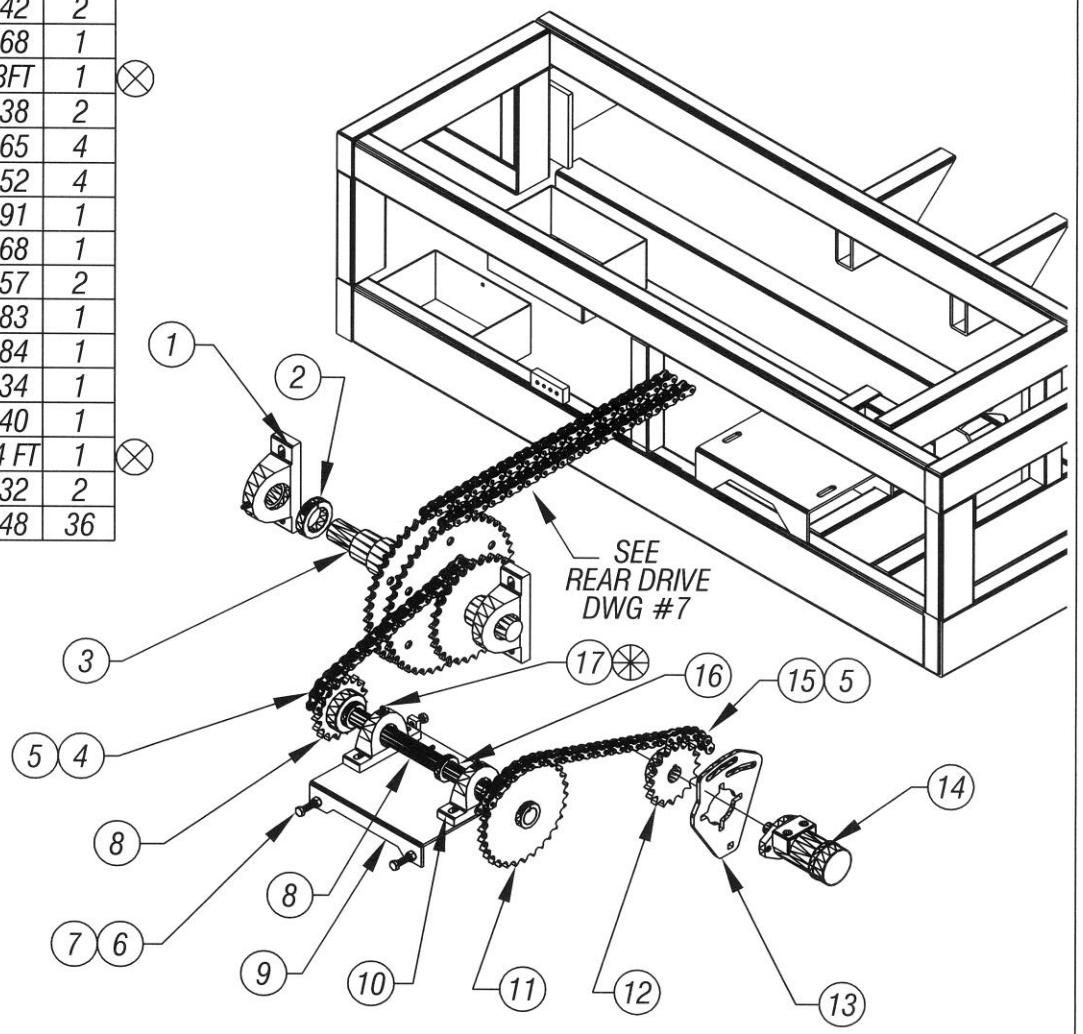
NOTE:

⊛ ALL GREASE POINTS ON THE SHAVING MILL ARE IDENTIFIED ← GREASE

⊗ CUT FROM BULK #80 ROLLER CHAIN PART #0309066

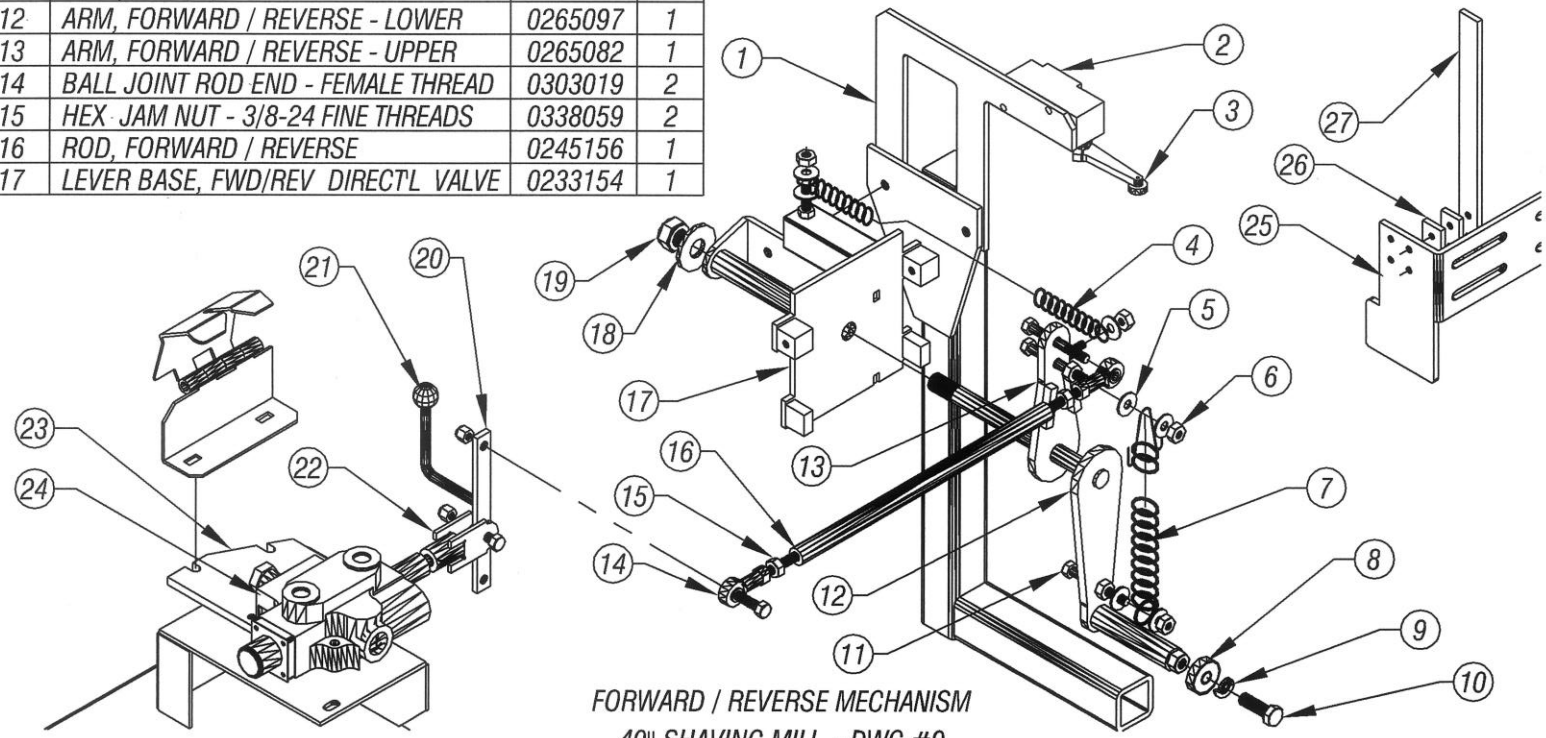



HOPPER DRIVE - FRONT
40" SHAVING MILL - DWG #8

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | BRACKET, HOPPER STOP SWITCH | 0406636 | 1 |
| 2 | LIMIT SWITCH | 0315382 | 1 |
| 3 | ROTARY ARM, LIMIT SWITCH | 0315383 | 1 |
| 4 | SPRING, EXTENSION - TOP | 0350009 | 1 |
| 5 | WASHER, FLAT | 0353102 | 8 |
| 6 | LOCK NUT - NYLON INSERT | 0338101 | 5 |
| 7 | SPRING, EXTENSION - 6 3/8 long | 0450042 | 1 |
| 8 | ROLLER, BALL BEARING | 0303036 | 1 |
| 9 | WASHER, SPLIT LOCK | 0353013 | 1 |
| 10 | BOLT, HEX HEAD | 0346343 | 1 |
| 11 | BOLT, HEX HEAD | 0346106 | 3 |
| 12 | ARM, FORWARD / REVERSE - LOWER | 0265097 | 1 |
| 13 | ARM, FORWARD / REVERSE - UPPER | 0265082 | 1 |
| 14 | BALL JOINT ROD END - FEMALE THREAD | 0303019 | 2 |
| 15 | HEX JAM NUT - 3/8-24 FINE THREADS | 0338059 | 2 |
| 16 | ROD, FORWARD / REVERSE | 0245156 | 1 |
| 17 | LEVER BASE, FWD/REV DIRECT'L VALVE | 0233154 | 1 |

~~ISSUED: 06-15-2010~~ ~~ISSUED: 04-11-2011~~ ISSUED: 08-11-2011

| | | | |
|---|---|---|---|
| 18 | WASHER, FLAT | 0353109 | 1 |
| 19 | HEX LOCK NUT, NYLON INSERT | 0338106 | 1 |
| 20 | LEVER, FORWARD / REVERSE | 0233178 | 1 |
| 21 | KNOB, PLASTIC BALL (BLACK) | 0332005 | 1 |
| 22 | YOKE, FWD / REV VALVE | 0274037 | 1 |
| 23 | ADAPTER, FWD/REV VALVE MOUNTING | 0475069 | 1 |
| 24 | HYD DIRECTIONAL VALVE | 0330187 | 1 |
| 25 | PLATE, HOPPER FWD / REV STOP-FRONT | 0462072 | 1 |
| 26 | SPACER, HOPPER STOP SWITCH-SHORT | 0449180 | 2 |
| 27 | SPACER, HOPPER STOP SWITCH-LONG | 0449181 | 1 |

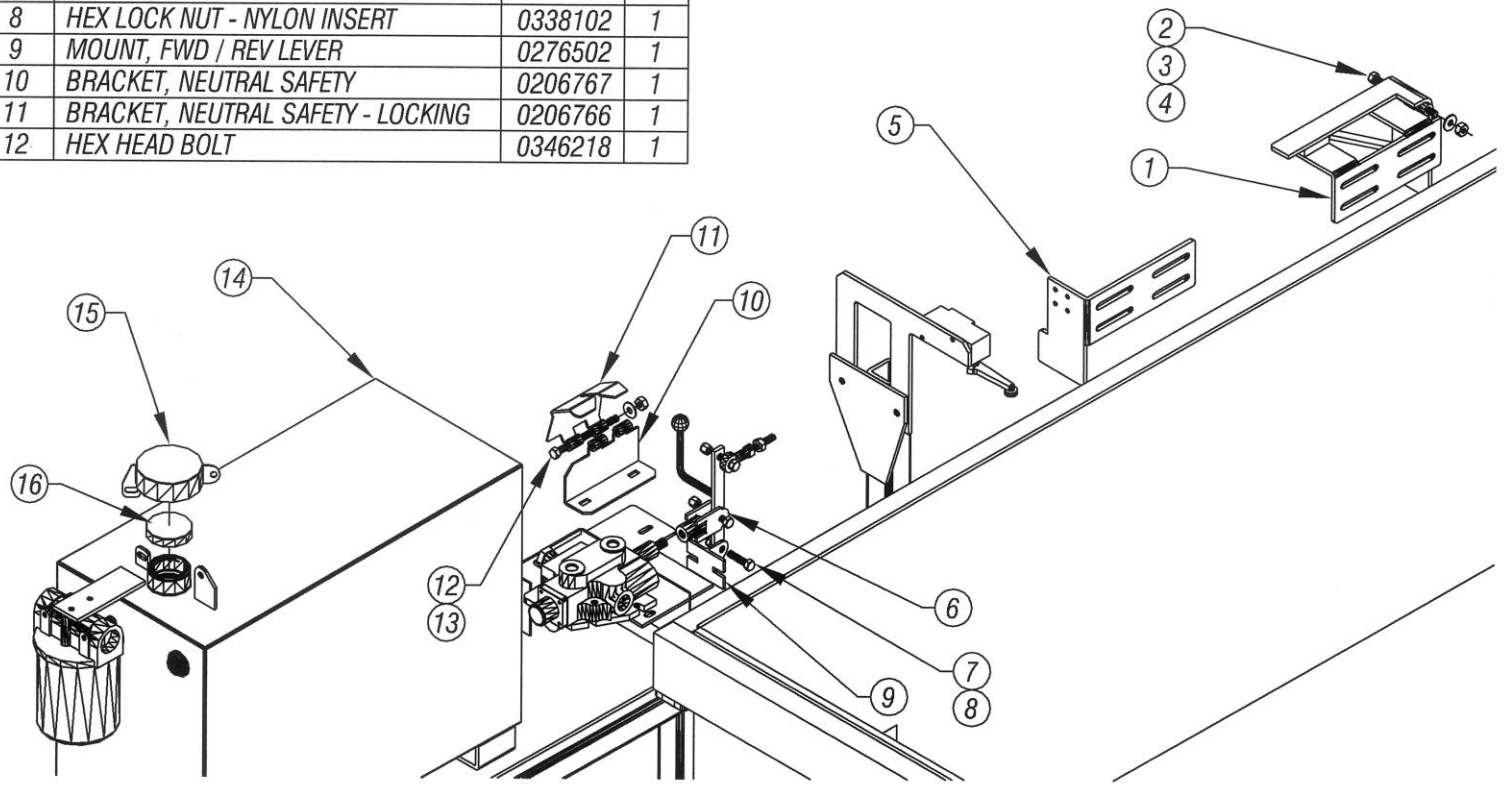



FORWARD / REVERSE MECHANISM
40" SHAVING MILL - DWG #9

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | BRACKET, HOPPER STOP - REAR | 0206646 | 1 |
| 2 | HEX HEAD BOLT | 0346214 | 1 |
| 3 | WASHER, FLAT | 0353102 | 1 |
| 4 | HEX LOCK NUT - NYLON INSERT | 0338102 | 1 |
| 5 | PLATE, HOPPER FWD/REV STOP - FRONT | 0462072 | 1 |
| 6 | YOKE, FWD / REV VALVE | 0274037 | 1 |
| 7 | HEX HEAD BOLT | 0346251 | 1 |
| 8 | HEX LOCK NUT - NYLON INSERT | 0338102 | 1 |
| 9 | MOUNT, FWD / REV LEVER | 0276502 | 1 |
| 10 | BRACKET, NEUTRAL SAFETY | 0206767 | 1 |
| 11 | BRACKET, NEUTRAL SAFETY - LOCKING | 0206766 | 1 |
| 12 | HEX HEAD BOLT | 0346218 | 1 |

~~ISSUED: 06-15-2010~~ ISSUED: 08-10-2011

| | | | |
|---|---|---|---|
| 13 | HEX LOCK NUT - NYLON INSERT | 0338102 | 1 |
| 14 | TANK, HYDRAULIC | 0252098 | 1 |
| 15 | CAP, GAS / OIL FILL LOCKING | 0271024 | 1 |
| 16 | CAP, GAS / OIL | 0371061 | 1 |




40" SHAVING MILL -- DWG #10

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | ROD, REAR DRIVE PUSHER | 0245141 | 1 |
| 2 | HEX NUT, 3/4 -10 | 0338012 | 2 |
| 3 | NUT, COUPLING | 0338451 | 1 |
| 4 | WASHER, FLAT | 0353109 | 1 |
| 5 | ADJUSTER, HOP'R DRIVE CHAIN TENSION | 0201047 | 1 |
| 6 | TOWFRAME, BASE | 0219425 | 1 |

ISSUED: 06-15-2010

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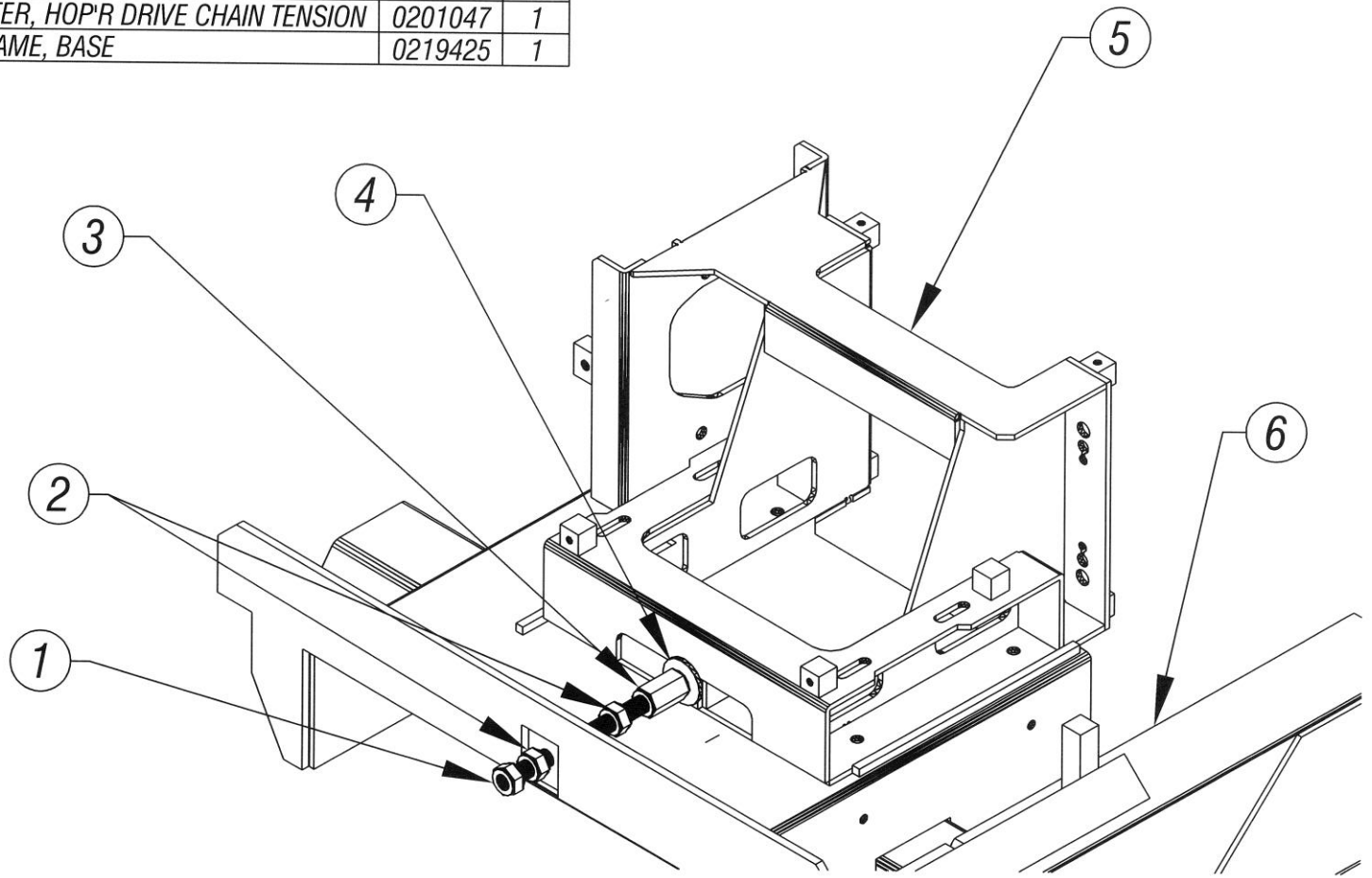


40" SHAVING MILL - DWG #11

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | TOWFRAME BASE | 0219425 | 1 |
| 2 | COVER, MAIN DRIVE - FRONT | 0471338 | 1 |
| 3 | COVER, MAIN DRIVE - RIGHT | 0471213 | 1 |
| 4 | GUIDE,HOP'R TRACK-FRONT RT | 0222183 | 1 |
| 5 | GUIDE,HOPPER TRACK-REAR RT | 0222181 | 1 |
| 6 | GUIDE,HOPR TRACK-REAR LEFT | 0222180 | 1 |
| 7 | GUIDE,HOPR TRACK-FRONT LT | 0221182 | 1 |
| 8 | SHAFT, HOPPER STOP/LOCK | 0248267 | 1 |

ISSUED: 06-15-2010

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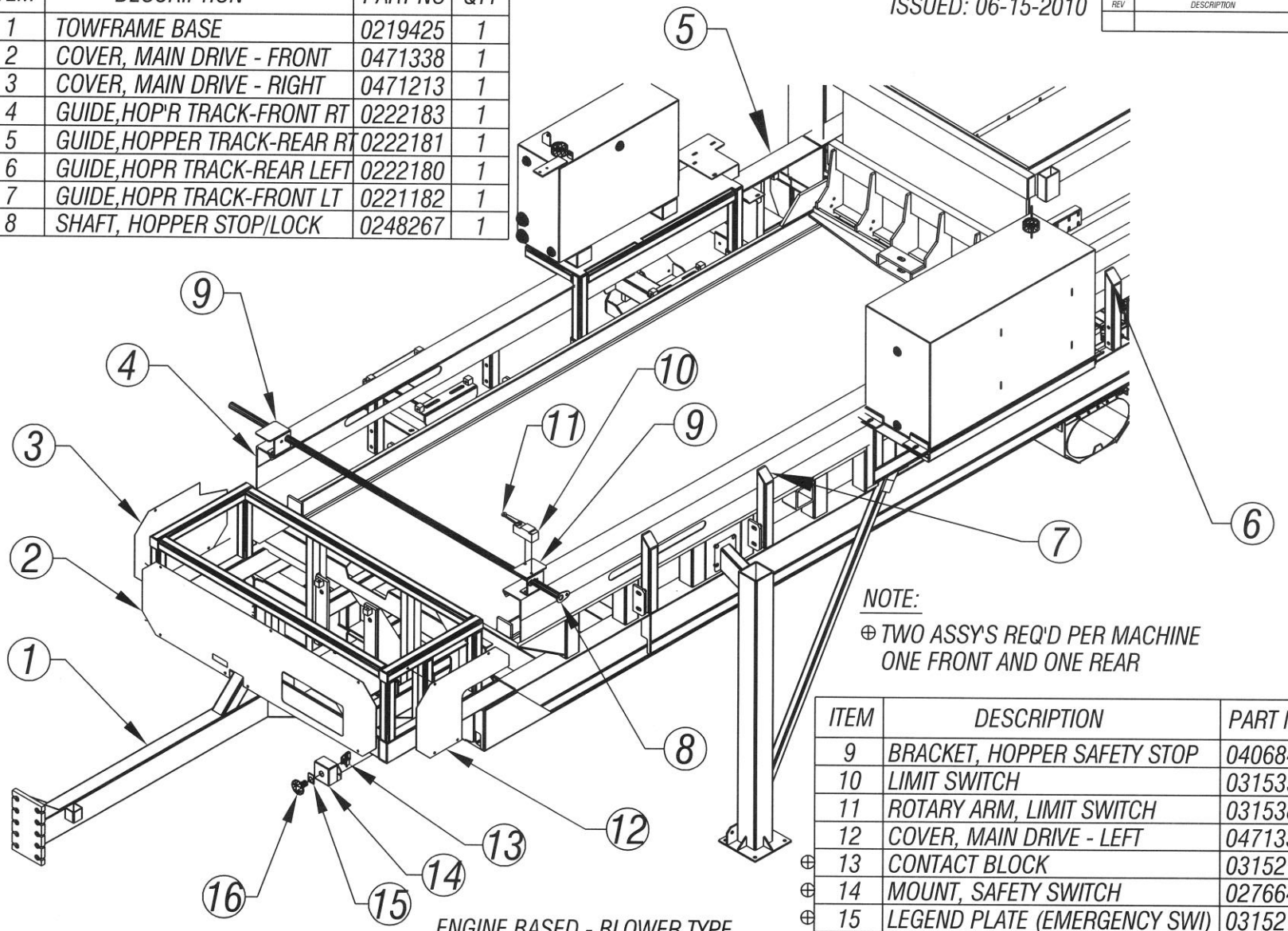


NOTE:

⊕ TWO ASSY'S REQ'D PER MACHINE
ONE FRONT AND ONE REAR

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 9 | BRACKET, HOPPER SAFETY STOP | 0406843 | 2 |
| 10 | LIMIT SWITCH | 0315352 | 1 |
| 11 | ROTARY ARM, LIMIT SWITCH | 0315382 | 1 |
| 12 | COVER, MAIN DRIVE - LEFT | 0471337 | 1 |
| ⊕ 13 | CONTACT BLOCK | 0315274 | 2 |
| ⊕ 14 | MOUNT, SAFETY SWITCH | 0276640 | 2 |
| ⊕ 15 | LEGEND PLATE (EMERGENCY SWI) | 0315275 | 2 |
| ⊕ 16 | MUSHROOM HEAD SWITCH | 0315273 | 2 |

ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #12

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | TOWFRAME BASE | 0219425 | 1 |
| 2 | BATTERY, 12 VOLTS | 0315122 | 1 |
| 3 | TERMINAL, BATTERY POST | 0315058 | 2 |
| 4 | BATTERY CABLE #4 - RED | 0315057 | 1 |
| 5 | BATTERY CABLE #4 - BLACK | 0315057 | 1 |
| 6 | EYELET, BATTERY #4 CABLE | 0315059 | 2 |

ISSUED: 06-15-2010

| REVISIONS | | |
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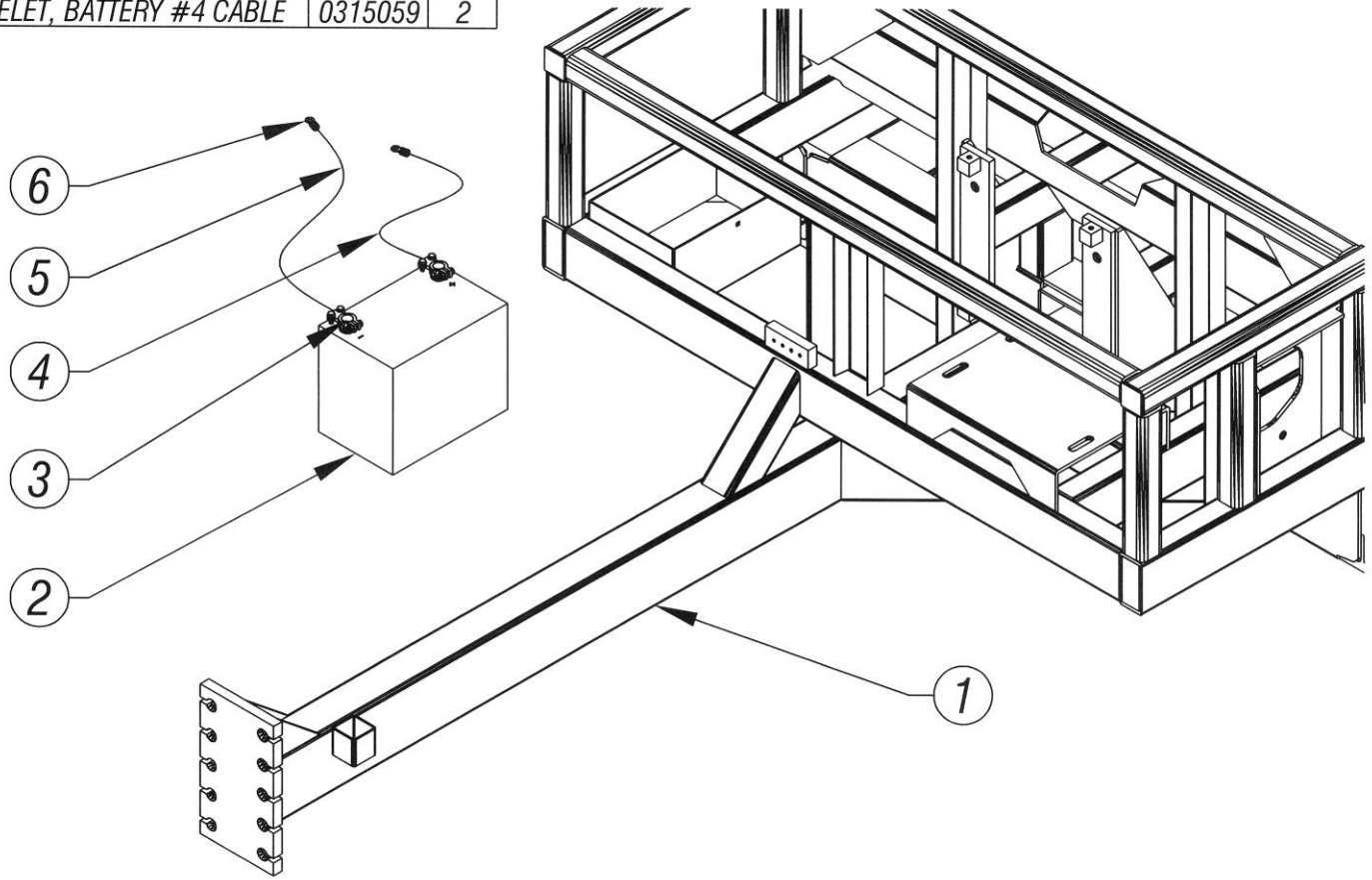
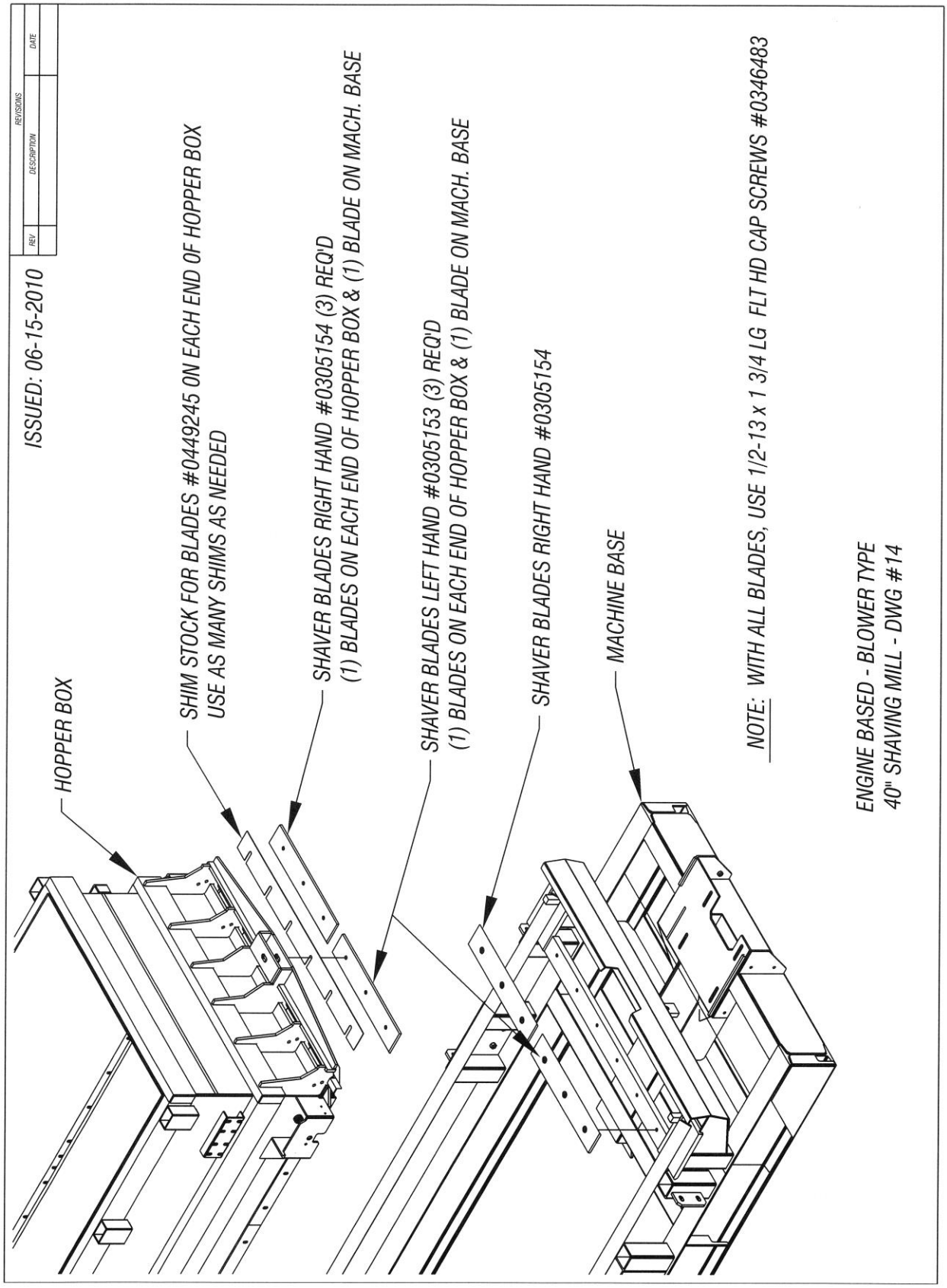



ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #13


REVISIONS
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DESCRIPTION
DATE
ISSUED: 06-15-2010
HOPPER BOX
SHIM STOCK FOR BLADES #0449245 ON EACH END OF HOPPER BOX
USE AS MANY SHIMS AS NEEDED
SHAVER BLADES RIGHT HAND #0305154 (3) REQ'D
(1) BLADES ON EACH END OF HOPPER BOX & (1) BLADE ON MACH. BASE
SHAVER BLADES LEFT HAND #0305153 (3) REQ'D
(1) BLADES ON EACH END OF HOPPER BOX & (1) BLADE ON MACH. BASE
SHAVER BLADES RIGHT HAND #0305154
MACHINE BASE
NOTE: WITH ALL BLADES, USE 1/2-13 x 1 3/4 LG FLT HD CAP SCREWS #0346483
ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #14

| ITEM | DESCRIPTION | PART NO | QTY | |
|---|---|---|---|---|
| 1 | GUARD, ENGINE BELT - TRAY | 0221506 | 1 | |
| 2 | GUARD, ENGINE BELT | 0221504 | 1 | |
| 3 | GUARD, FORWARD IDLER | 0221505 | 1 | |
| 4 | MOUNT, IDLER GUARD | 0476633 | 1 | |
| 5 | GUARD, IDLER | 0221545 | 1 | |
| 6 | FRAME, ENG.MOUNTING CHANNEL-RIGHT | 0219449 | 1 | ⊗ |
| 7 | COVER, ENGINE FRAME TOP - LEFT | 0471290 | 1 | ⊗ |

ISSUED: 06-15-2010

| REVISIONS | | |
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| REV | DESCRIPTION | DATE |
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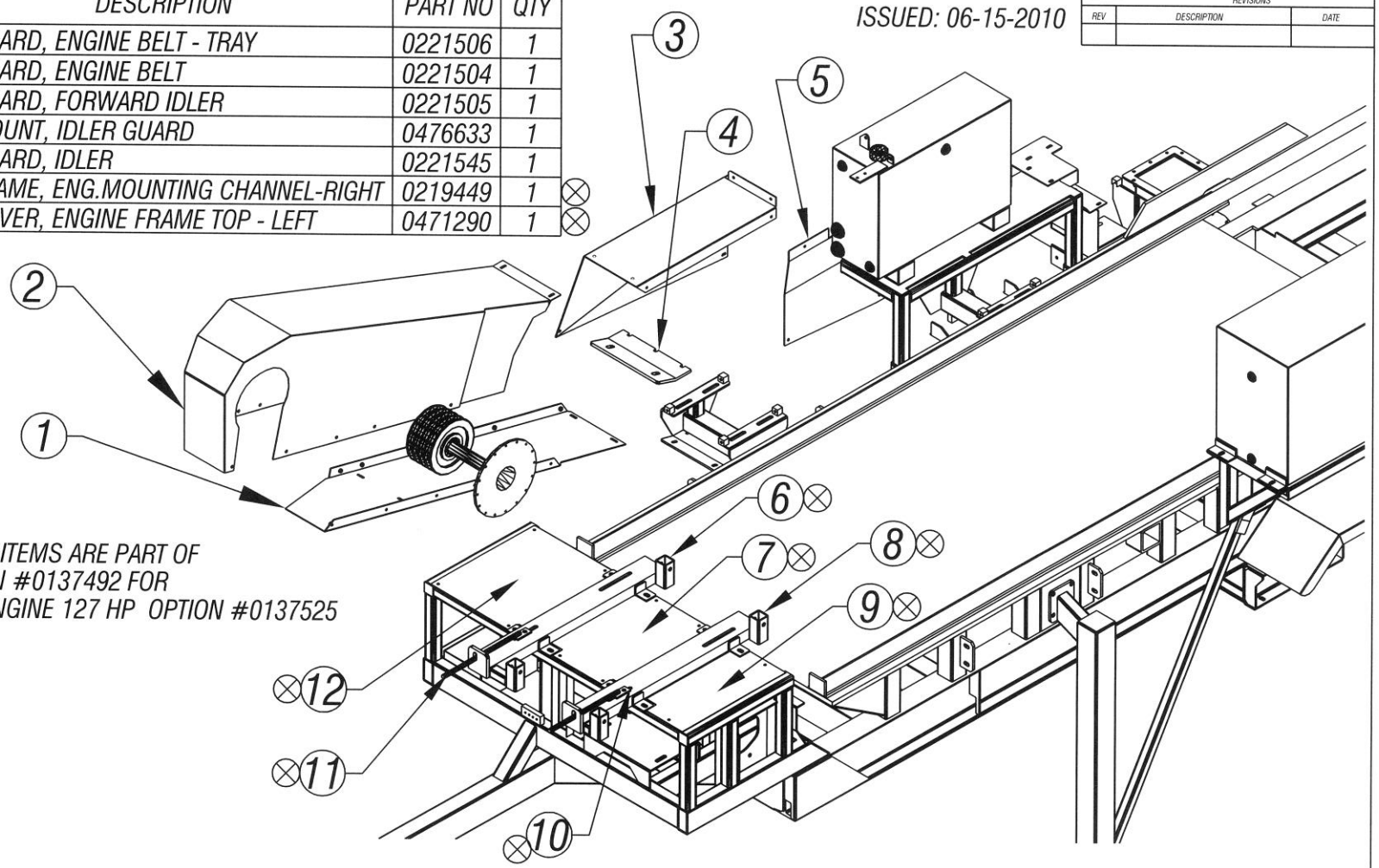


NOTE:

⊗ THESE ITEMS ARE PART OF OPTION #0137492 FOR CAT. ENGINE 127 HP OPTION #0137525

| ITEM | DESCRIPTION | PART NO | QTY | |
|---|---|---|---|---|
| 8 | FRAME, ENG.MOUNTING CHANNEL-LEFT | 0219450 | 1 | ⊗ |
| 9 | COVER, ENGINE FRAME TOP - LEFT | 0471355 | 1 | ⊗ |
| 10 | ADJUSTER, ENGINE - REAR | 0201060 | 1 | ⊗ |
| 11 | ADJUSTER, ENGINE - FRONT | 0201061 | 1 | ⊗ |
| 12 | COVER, ENGINE FRAME TOP - RIGHT | 0471354 | 1 | ⊗ |

ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #15

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | COVER, ENGINE RAIN | 0271353 | 1 |
| 2 | MOUNT, CONTROL BOX | 0276681 | 1 |
| 3 | MOUNT, MURPHY CONTROL BOX | 0276723 | 1 |
| 4 | BRACKET, THROTTLE CABLE | 0406525 | 1 |
| 5 | LOCK NUT - NYLON INSERT | 0338104 | 4 |
| 6 | BOLT, HEX HEAD - GRADE 8 | 0346419 | 4 |
| 7 | PLATE, CONTROL BOX SUPPORT | 0462707 | 1 |

ISSUED: 06-15-2010

| REVISIONS | | |
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| REV | DESCRIPTION | DATE |
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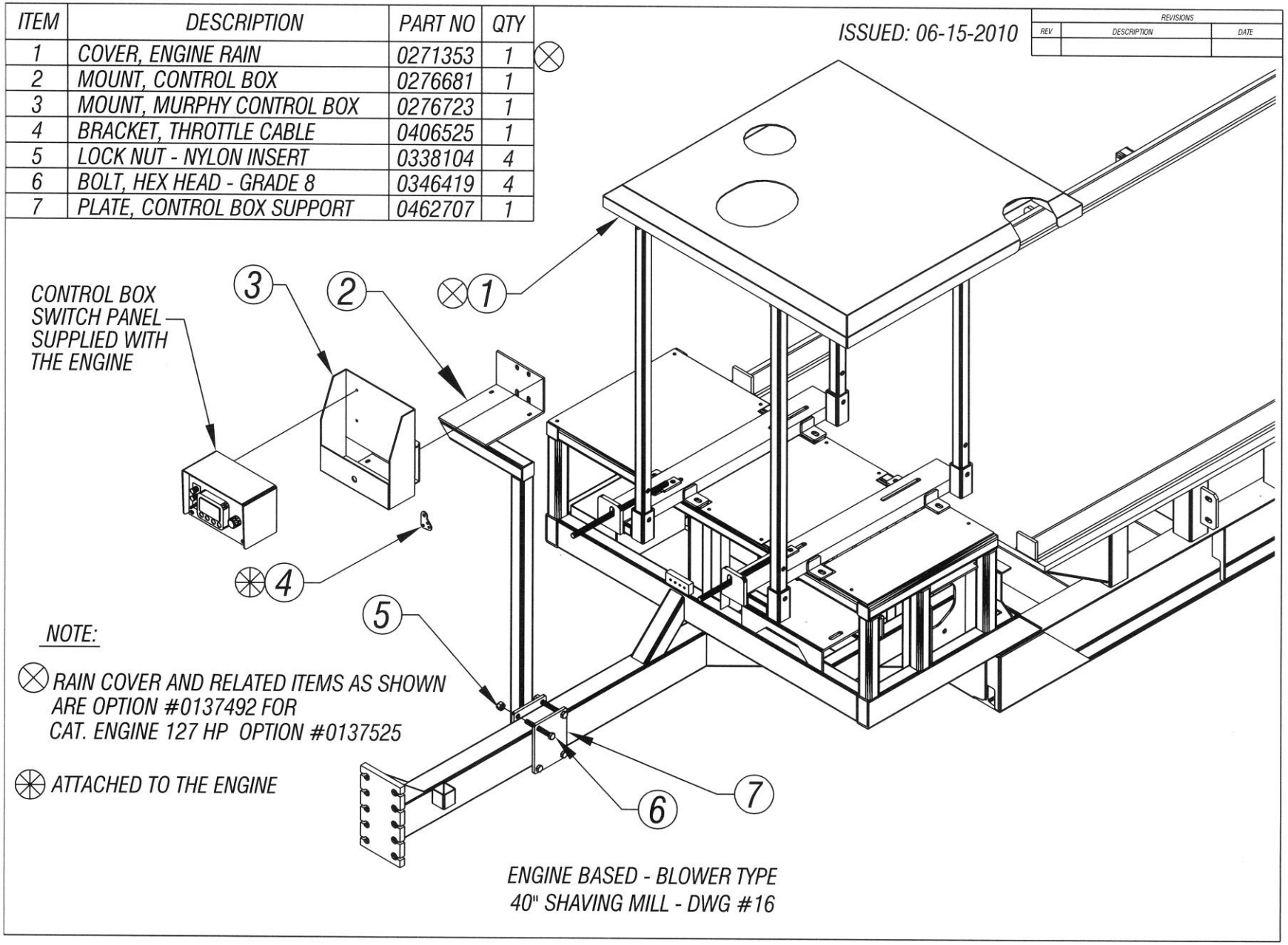


NOTE:

⊗ RAIN COVER AND RELATED ITEMS AS SHOWN ARE OPTION #0137492 FOR CAT. ENGINE 127 HP OPTION #0137525

⊛ ATTACHED TO THE ENGINE

ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #16

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | HOUSING,BLOWER DUCT | 0228268 | 1 |
| 2 | HOUSING, BLOWER | 0228227 | 1 |
| 3 | PLT, IMPELLER ( w/ NOTCHES) | 0262090 | 1 |
| 4 | BEARING, 4 BOLT, FLANGED | 0303042 | 2 |
| 5 | BLOWER HOUSING, IMPELLER/BEARING | 0228190 | 1 |
| 6 | GUARD, BLOWER | 0221511 | 1 |
| 7 | COVER, SPRING RETAINER | 0271223 | 2 |
| 8 | SPRING, TORSION 90° | 0350017 | 4 |
| 9 | CHUTE, STRAIGHT EXHAUST | 0226133 | 1 |
| 10 | DOOR, SHAVING DUCT | 0260028 | 1 |

ISSUED: 06-15-2010

| REVISIONS | | |
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| REV | DESCRIPTION | DATE |
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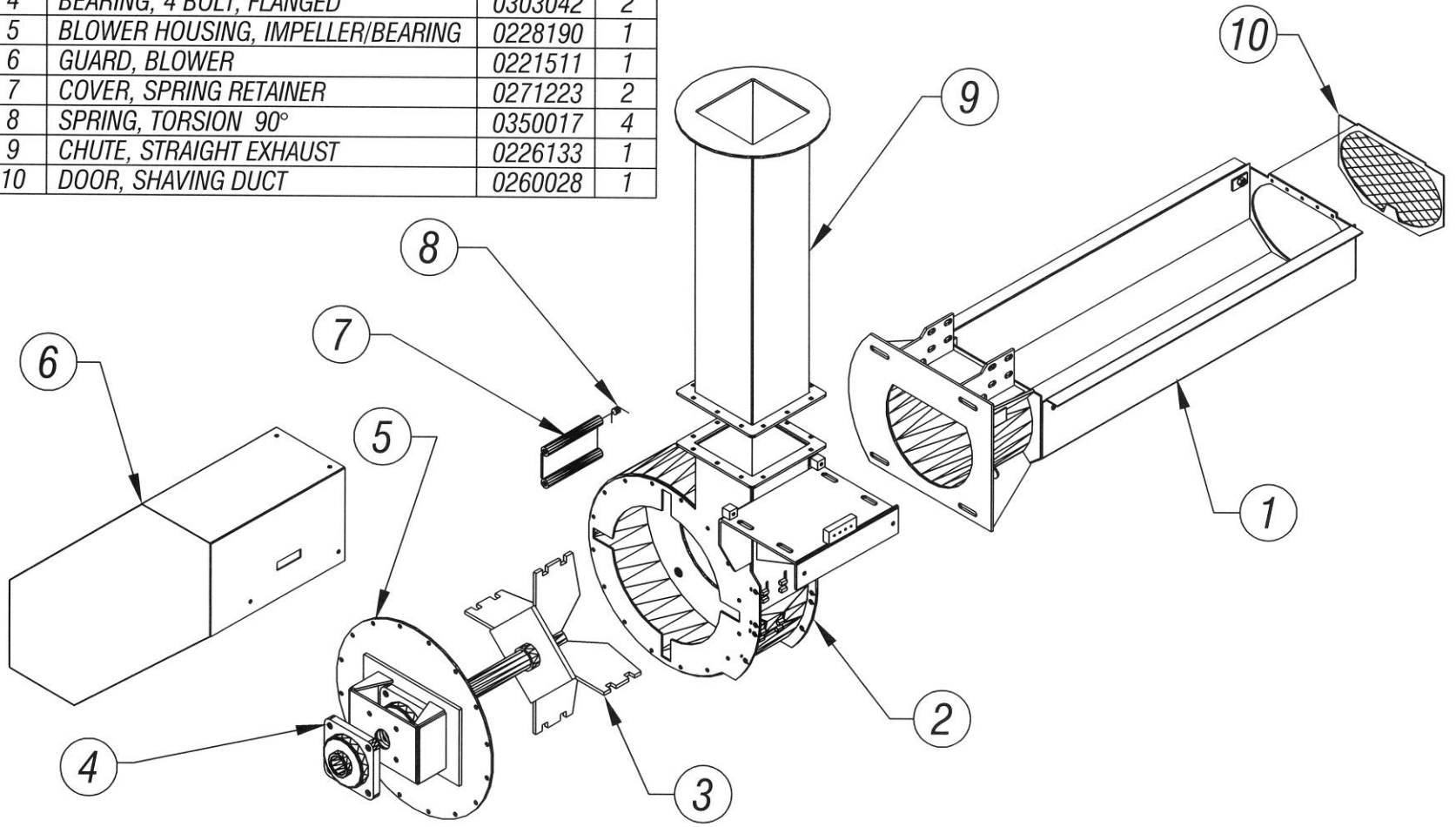


ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #17

| ITEM | DESCRIPTION | PART NO | QTY |
|---|---|---|---|
| 1 | CHUTE, EXHAUST | 0226132 | 1 |
| 2 | CLAMP, REAR HALF | 0210103 | 1 |
| 3 | CLAMP, FRONT HALF | 0210067 | 1 |
| 4 | CLAMP STRIP, RUBBER - 1/8 x 3/8 x 14 LONG | | 2 ⊗ |
| 5 | NUT, WING - 3/4-10 | 0238501 | 2 |

ISSUED: 06-15-2010

| REVISIONS | | |
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| REV | DESCRIPTION | DATE |
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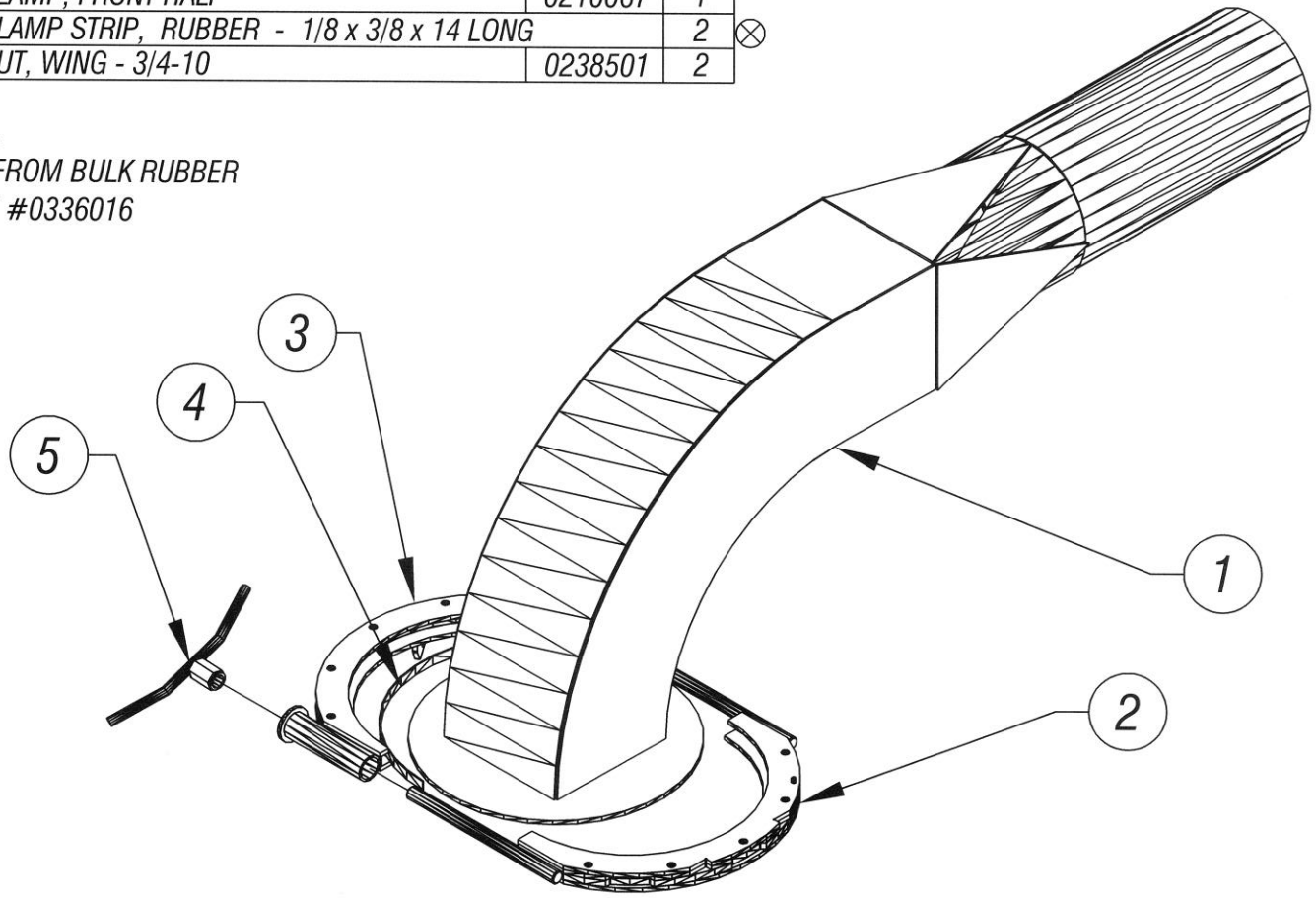
NOTE:

⊗ CUT FROM BULK RUBBER
PART #0336016




ENGINE BASED - BLOWER TYPE
40" SHAVING MILL - DWG #18

| ITEM | PART DESCRIPTION | PART# | QTY |
|---|---|---|---|
| 1 | PUMP, LIVE HYDRAULIC | 0330188 | 1 |
| 2 | OIL FILTER & HOUSING | 0318021 | 1 |
| 3 | DIRECTIONAL VALVE | 0330187 | 1 |
| 4 | FLOW CONTROL VALVE | 0330179 | 1 |
| 5 | SOLENOID VALVE | 0330106 | 1 |
| 6 | RELIEF VALVE | 0330089 | 1 |
| 7 | DRIVE MOTOR | 0330143 | 2 |

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| REV | DESCRIPTION | DATE |
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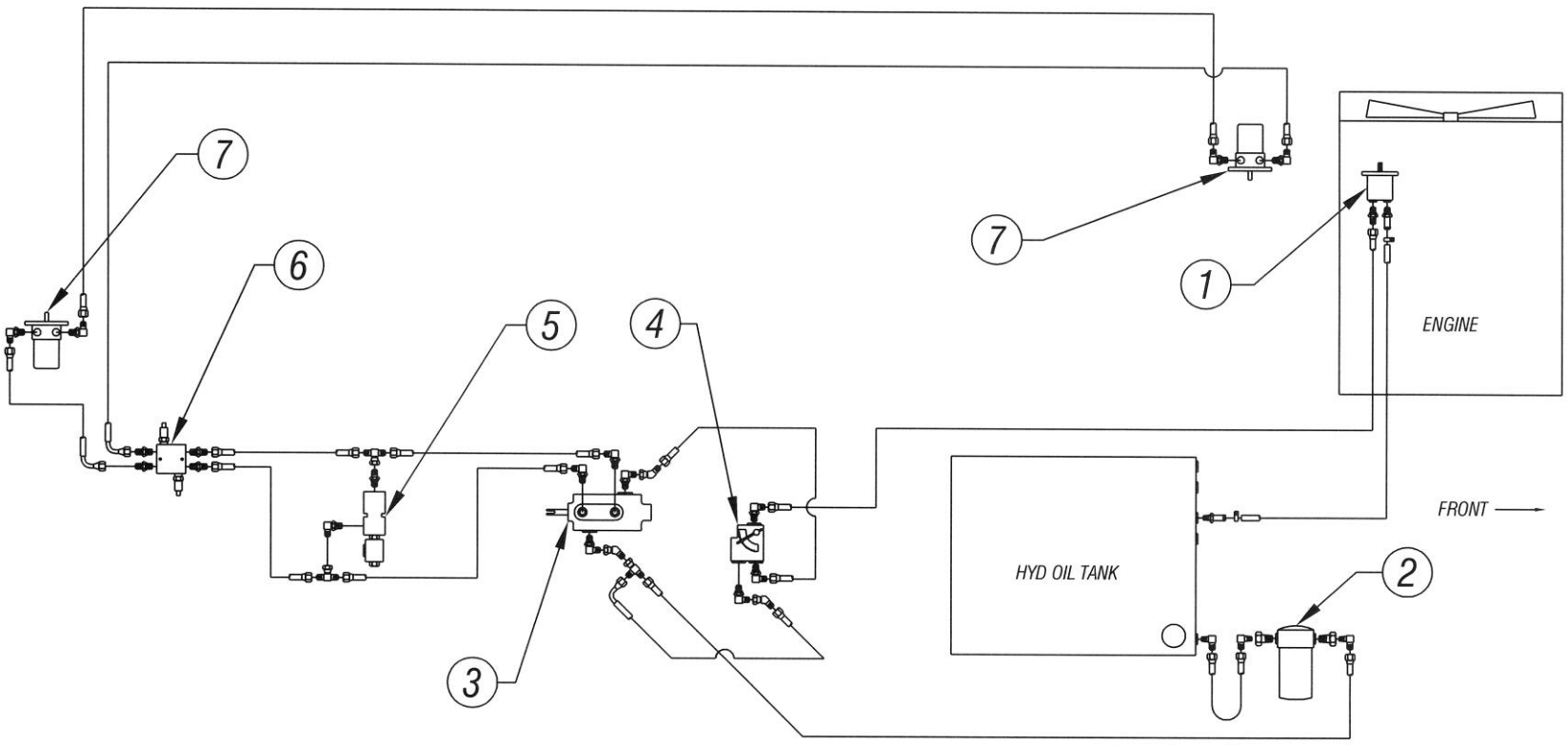
ISSUED: 06-15-2010

# HYDRAULIC COMPONENTS



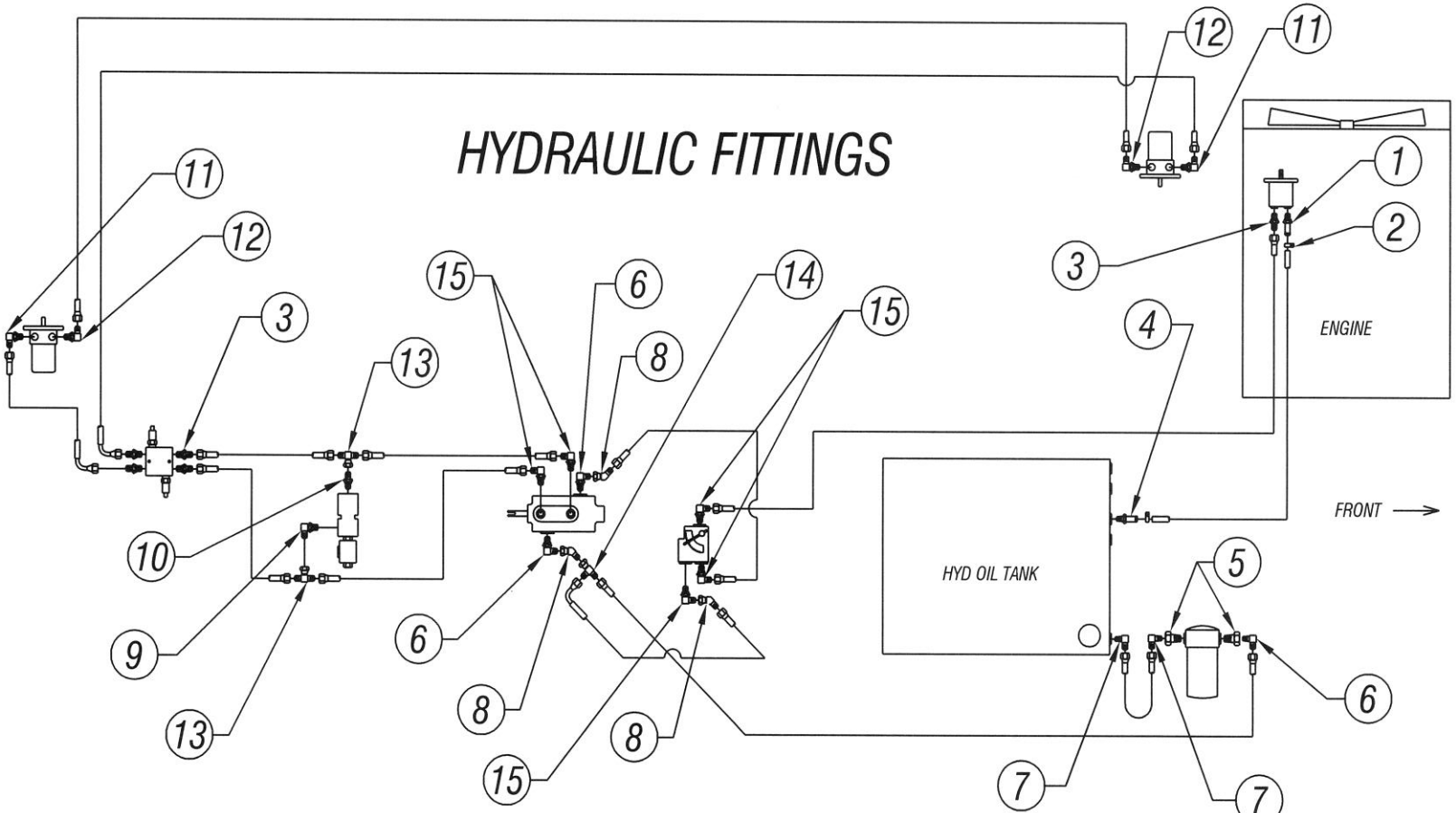

BASIC HYDRAULIC HOOK-UP
40" SHAVING MILL - DWG #19

| ITEM | PART DESCRIPTION | PART# | QTY |
|---|---|---|---|
| 1 | ADAPTER,STR. -1"OD TUBEx3/4 O-RING | 0317109 | 1 |
| 2 | HOSE CLAMP | 0310031 | 2 |
| 3 | CONNECTOR, 1/2 FLR x 5/8 O-RING | 0317027 | 5 |
| 4 | ADAPTER, STRAIGHT-1" TUBE x 1" MPT | 0317220 | 1 |
| 5 | BUSHING, 1 1/4" MPT x 3/4" FPT | 0317204 | 2 |
| 6 | 90°ELBOW, 1/2 FLR x 3/4 MPT | 0317040 | 3 |
| 7 | 90°ELBOW, 3/4 FLR x 3/4 MPT | 0317061 | 2 |
| 8 | 45°SWIVEL ELBOW,1/2FLRx1/2 SWIVEL | 0317033 | 3 |

| ITEM | PART DESCRIPTION | PART# | QTY |
|---|---|---|---|
| 9 | 90°ELBOW, 1/2 FLR x 1/2 O-RING | 0317007 | 1 |
| 10 | CONNECTOR, 1/2 FLR x 1/2 O-RING | 0317030 | 1 |
| 11 | 90°ELBOW, 1/2 FLR x 1/2 O-RING | 0317250 | 2 |
| 12 | 90°ELBOW, 1/2 FLR x 5/8 O-RING | 0317008 | 2 |
| 13 | SWIVEL TEE,1/2 FL x 1/2 FL x 1/2 SWIV. | 0317171 | 2 |
| 14 | SWIV RUN TEE,1/2FLRx1/2SWIVx1/2FLR | 0317118 | 1 |
| 15 | 90°ELBOW, 1/2 FLR x 3/8 O-RING | 0317052 | 5 |

| REVISIONS | | |
|---|---|---|
| REV | DESCRIPTION | DATE |
| | | |

ISSUED: 06-15-2010




BASIC HYDRAULIC - HOOK-UP
40" SHAVING MILL DWG #20

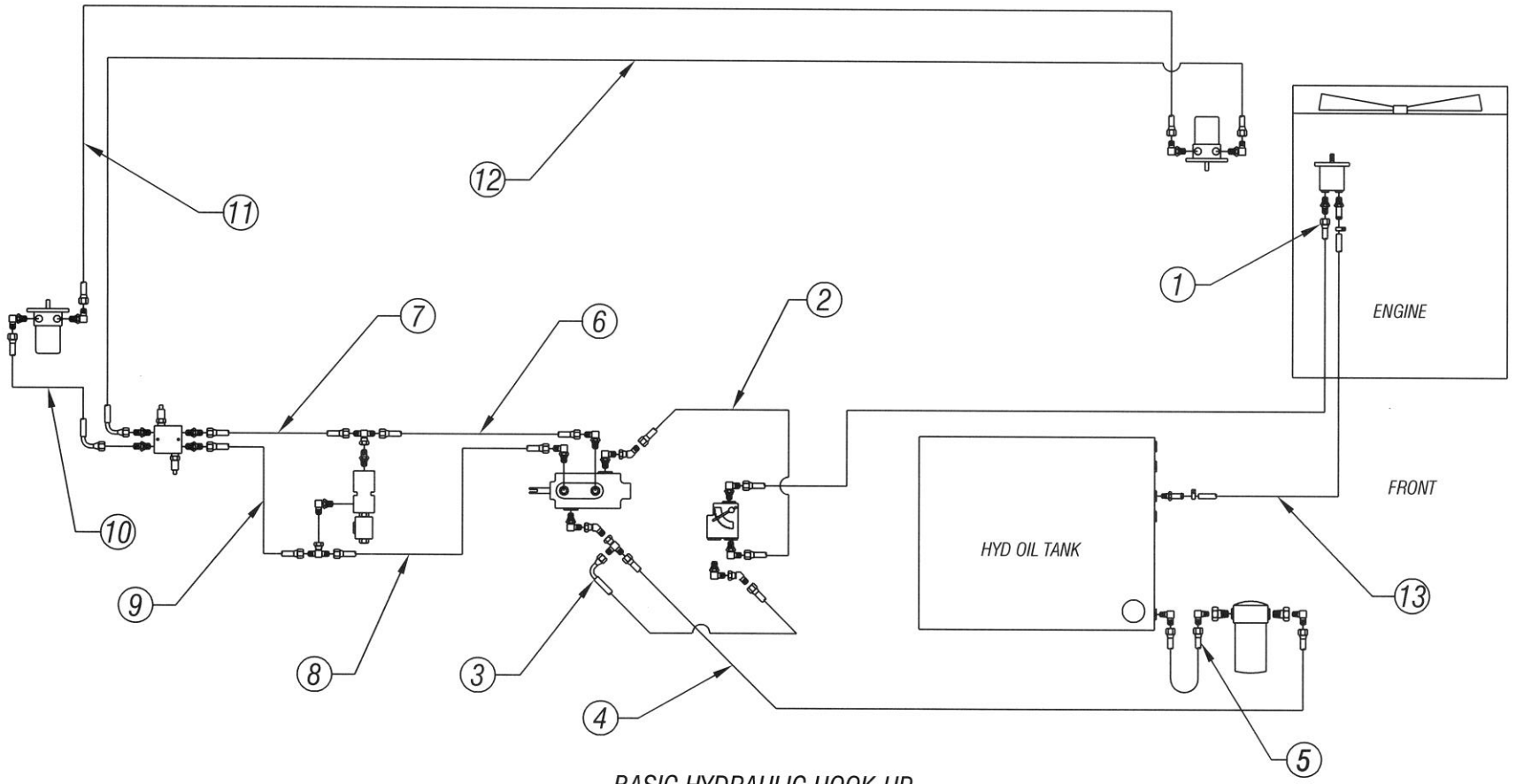
| ITEM | PART DESCRIPTION | PART# | QTY |
|---|---|---|---|
| 1 | HOSE, 1/2 ID x 138" LG - PUMP TO F/C | 0327315 | 1 |
| 2 | HOSE, 1/2 ID x 28" LG - F/C TO C/V | 0327346 | 1 |
| 3 | HOSE, 1/2 ID x 34" LG, 90° - F/C TO C/V | 0327098 | 1 |
| 4 | HOSE, 1/2 ID x 50" LG - C/V TO FILTER | 0327152 | 1 |
| 5 | HOSE, 5/8 ID x 18" LG - FILTER TO TANK | 0327035 | 1 |
| 6 | HOSE, 1/2 ID x 157" LG - C/V TO SOL. | 0327427 | 1 |

| ITEM | PART DESCRIPTION | PART# | QTY |
|---|---|---|---|
| 7 | HOSE, 1/2 ID x 21" LG - SOL TO R/V | 0327147 | 1 |
| 8 | HOSE, 1/2 ID x 162" LG - C/V TO SOL | 0327428 | 1 |
| 9 | HOSE, 1/2 ID x 18.5" LG - SOL TO R/V | 0327429 | 1 |
| 10 | HOSE, 1/2 ID x 30" LG,90° - R/V TO D/M | 0327175 | 1 |
| 11 | HOSE, 1/2 ID x 355" LG - R/V TO D/M | 0327430 | 1 |
| 12 | HOSE, 1/2 ID x 370" LG,90° - D/M TO R/V | 0327431 | 1 |
| 13 | HOSE, 1" ID x CUT TO FIT- TANK TO PUMP | BULK | 1 |

| REVISIONS | | |
|---|---|---|
| REV | DESCRIPTION | DATE |
| | | |

ISSUED: 06-15-2010

# HYDRAULIC HOSES



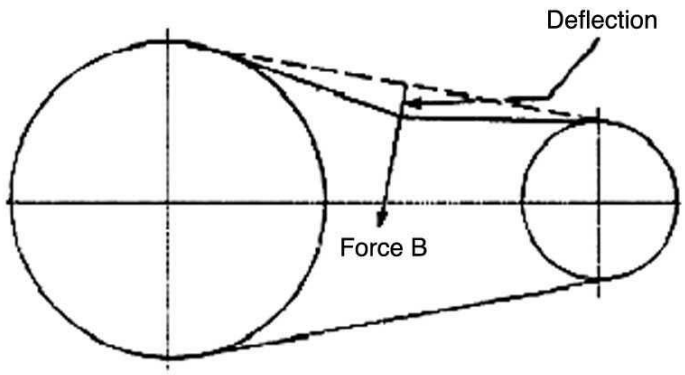

BASIC HYDRAULIC HOOK-UP
40" SHAVING MILL - DWG #21

Below is a quick reference chart for various “Flat Head Cap Screws” and the torque recommendations.

**VALUES ARE STATED IN FOOT POUNDS**

| BOLT SIZE | Thds Per Inch | SAE Grade 5 | SAE Grade 8 |
|---|---|---|---|
| ¼ | 20 | 10 | 14 |
| | 28 | --- | --- |
| 5/16 | 18 | 19 | 29 |
| | 24 | --- | --- |
| 3/8 | 16 | 33 | 47 |
| | 24 | --- | --- |
| 7/16 | 14 | 54 | 78 |
| | 20 | --- | --- |
| ½ | 13 | 78 | 119 |
| | 20 | --- | --- |
| 9/16 | 12 | 114 | 169 |
| | 18 | --- | --- |
| 5/8 | 11 | 154 | 230 |
| | 11 | --- | --- |
| ¾ | 10 | 257 | 380 |
| | 10 | --- | --- |
| 7/8 | 9 | 382 | 600 |
| | 9 | --- | --- |
| 1 | 8 | 587 | 700 |
| | 8 | --- | --- |

Drive Belt Tension Measurement by Deflection




Deflection should be 3/8" when
8-12 lbs. push is applied at "B"

# WARRANTY POLICY

***Please remember to complete and return your Warranty Card and Dealer Delivery Report. Warranty Claims will not be considered if the Warranty Card and Dealer Delivery Report have not been returned to Salsco.***

Your Salsco Commercial or Turf Equipment product is a commercial type product and is normally manufactured and sold for commercial or industrial use. **Salsco will, for the original purchaser, for one (1) year from the date of purchase (90 days if used for rental purposes) repair or replace, free of charge, any SALSCO part or parts found to be defective in material, workmanship or both**. Any transportation or shipping charges will be borne by the purchaser. If, during the warranty period stated above, the product does not function properly due to defect, simply contact Salsco and follow the Warranty Procedures included in this manual.

This warranty **does not** include:

- Incidental or consequential damages and is exclusive of any implied warranties.
- Normal maintenance parts, including, but not limited to hoses, chains, belts, filters, lubricants, etc.
- Parts or components, which are covered under the original manufacturer warranty, including, but not limited to engines, pumps, and motors.

## WARRANTY PROCEDURE

In order for Salsco to consider your warranty claims in a timely manner you must follow the simple procedures listed below:

MACHINE OR PART FAILURE

a) Call our service department for helpful instruction on how to correct or repair the problem. Preventive maintenance will also be suggested.

b) When ordering parts for Warranty issues, you MUST retain possession of the old parts in question until notified with respect to returning the parts to Salsco or other disposition.

c) Warranty Claims MUST be filed within 30-days from completion of the work performed. Contact our office for an electronic warranty claim form.

d) Fill in all information requested on warranty claim form, a copy of which is included in this manual, (date of purchase, company name, address, etc.). List all parts used. Make sure part numbers are correct. You can obtain these from your manual. (include good description of problem; i.e. "leaking from spool" rather than "leaking").

e) It is our goal to consider and reach a disposition on each Warranty Claim within 30-days from the date that it is received. Therefore it is important that you respond promptly to any request for further information. Claims with no response to inquiries will be closed as "**denied for lack of response**" 90-days from the date of request.

f) Email, Fax or Send Warranty Claim form to our Warranty Department. – **Warranty on parts most often requires return of the parts that were replaced.** DO NOT DISCARD OLD PARTS UNTIL YOU HAVE RECEIVED A DETERMINATION AS TO WHETHER THESE PARTS MUST BE RETURNED.

g) Our Warranty Department will contact and instruct you on how to return the Parts to Salsco on an RA #. Returns MUST be made within 30-Days from issuance of RA #. **FREIGHT CHARGES ON RETURN OF PARTS IS THE RESPONSIBILITY OF THE CUSTOMER.** Normal pre-delivery adjustments are not covered under warranty. Labor Warranties are based on reasonable time allowances as determined by Salsco, Inc. and paid at 75% of posted labor rate. **TRAVEL TIME IS NOT REIMBURSED UNDER THE WARRANTY POLICY.**

h) Be sure to put the RA form inside the box that you are shipping back, also be sure to put on the outside of the box "Return of Goods" and the RA #.

i) Ship returns via a traceable method such as UPS Ground Service. Be sure that the shipment is insured for the appropriate value. If uninsured parts are lost, we cannot issue a credit.

## PLEASE NOTE: *Warranty forms should be filled out completely.*

**PREVENTIVE MAINTENANCE IS YOUR BEST INSURANCE AGAINST EQUIPMENT FAILURE. BE SURE TO READ THIS MANUAL, ESPECIALLY THE MAINTENANCE, OPERATING AND CAUTION SECTIONS.**

**SALSCO, INC., 105 School House Rd.**
**Cheshire, CT 06410**
**800-872-5726, 203-271-1682**
**203-271-2596 (Fax)**
**sales@salsco.com,** www.salsco.com

## WARRANTY CLAIM FORM

**SALSCO, INC.**
**105 School House Rd.**
**Cheshire, CT 06410**

**Phone:(203) 271-1682,(800) 872-5726**
**Fax: (203) 271-2596**
**Email: s.clark@salsco.com**
**Website: www.salsco.com**

**END OWNER** **Date Submitted:**

| | | |
|---|---|---|
| Name: | Phone: | **Work Order #:** |
| Email: | Fax: | **Office Use Only** |
| Address: | | **Date Rec'd** |
| | | **Cust ID:** |
| | | **Salsco WC** |
| | | **Salsco RA** |
| **PURCHASED FROM** | | **Date Approved:** |
| Name: | Phone: | **Date Rejected:** |
| Email: | Fax: | **Processed By:** |
| Address: | | **Dlr. Del Report on File:** YES NO |
| | | **Warranty Card on File:** YES NO |
| | | **Part(s) Total:** |
| **Equipment/Warranty Information (Must be complete)** | | **Labor Total:** |
| Purchase Date: Invoice # | Date Failed: | **Total Approved:** |
| | | |
| Model #: Serial #: | Repair Date: | **Approved/Rejected:** |
| | | **Name:** |
| Hrs Used: Primary Use: | | **Reason for Rejection:** |
| | | |
| Warranty Claim/Work Order#: | | |
| | | |
| Was a Salsco Return Authorization # issued for repairs or | | |
| Return of Parts? YES NO | | **Suggested Preventative Maint:** |
| Probable Cause of Failure: | | |
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| Work Performed/Comments on Repair: | | |
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|---|---|---|---|---|---|---|---|---|
| Shop Labor Rate: | | | | | | **Submitted By:** | | |
| Total Labor Hours to Repair: | | | | | | **Printed Name:** | | |
| Parts Required for repair | | | | | | | | |
| Salsco Part #: Description: | | | | | | Qty. | Price Each | Total | Inv # |
| | | | | | | | | | |
| | | | | | | | | $ | |
| | | | | | | | | $ | |
| | | | | | | | | $ | |
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Fill in all information requested on warranty claim form.

**INCOMPLETE FORMS CANNOT BE PROCESSED & WILL BE RETURNED**

List all parts used. Make sure part numbers are correct. Any parts that you believe to be defective or any parts that break should be retained for possible inspection until after the warranty has been paid or part has been replaced.

SALESMAN ID #_____ SALES MANAGER'S NAME_____

800-872-5726, 203-271-1682
203-271-2596 (Fax)

**SALSCO, INC.**
105 School House Road
Cheshire, CT 06410

*www.salsco.com*
sales@salsco.com

## DEALER DELIVERY REPORT

| | | | | |
|---|---|---|---|---|
| MODEL: | SERIAL NO: | | | |
| DEALER: | CITY: | STATE: | ZIP: | |
| PURCHASER: | ADDRESS: | CITY: | ST: | ZIP: |

The undersigned dealer warrants that the above-described machine was carefully inspected, adjusted and prepared for delivery before delivery to the purchaser; that both the operation and maintenance of the machine were explained to the purchaser; and that a copy of the Owner's Instruction Manual were given to the purchaser and his attention called to Our Warranty and any operating instructions included in the manual and caution notes.

The undersigned purchaser certifies that the operation and maintenance of the above-described machine have been explained to him; acknowledges receipt of a copy of the Owner's Instruction Manual and Our Warranty Policy printed in said Instruction Manual and Caution Notes. I also understand that it is my responsibility to explain and make Salsco manuals available to new operators.

| | | | |
|---|---|---|---|
| DATE: | | DATE: | PURCHASER: |
| SIGN BY: | | SIGN BY: | |
| PHONE: | FAXI | PHONE: | |
| E-Mail | | EMAIL: | |

| | | | | |
|---|---|---|---|---|
| MODEL: | SERIAL NO: | | | |
| DATE PURCHASED: | | | | |
| PURCHASER: | ADDRESS: | CITY: | ST: | ZIP: |
| EMAIL: | | PHONE: | | |
| DEALER: | | STATE: CT | | |

## SALSCO LIMITED WARRANTY CARD

| | | |
|---|---|---|
| Will this equipment be used commercially? | Yes | No |
| Did Dealer service this equipment and instruct you in its care and safe operation? | Yes | No |
| Did you receive an "Operation & Service Manual" and safety pamphlet? | Yes | No |

Signed

Purchaser

**NOTICE:** IMPORTANT: THIS CARD MUST BE FILLED OUT COMPLETELY AND MAILED TO THE FACTORY WITHIN 10 DAYS OF PURCHASE DATE, OR YOUR LIMITED WARRANTY WILL BE VOIDED.

## SERVICE RECORD

If kept properly, this schedule will help track problems in the future.

| Date | Qty. | Part # | Description of Work Done | Hours Used | Total Hours to Date |
|---|---|---|---|---|---|
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MODEL # _____ S/N_____

DATE PURCHASED:_____