Salsco, INC.
LEADER BY DESIGN

MADE IN THE U.S.A

OPERATORS AND PARTS MANUAL
30" 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 Vacuum - Tailgate & Truckloader Vacuums, Strawblowers, Slicer Seeders
Shaving Mills - Gas & Electric Greens Rollers

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

TABLE OF CONTENTS

30" SHAVING MILL

SALSCO, INC.
105 School House Road
Cheshire, CT 06410
800-872-5726, 203-271-1682

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)
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THIS MANUAL COVERS MODEL (s): 30" 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" shavings mill 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 both the 20" & 30" 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

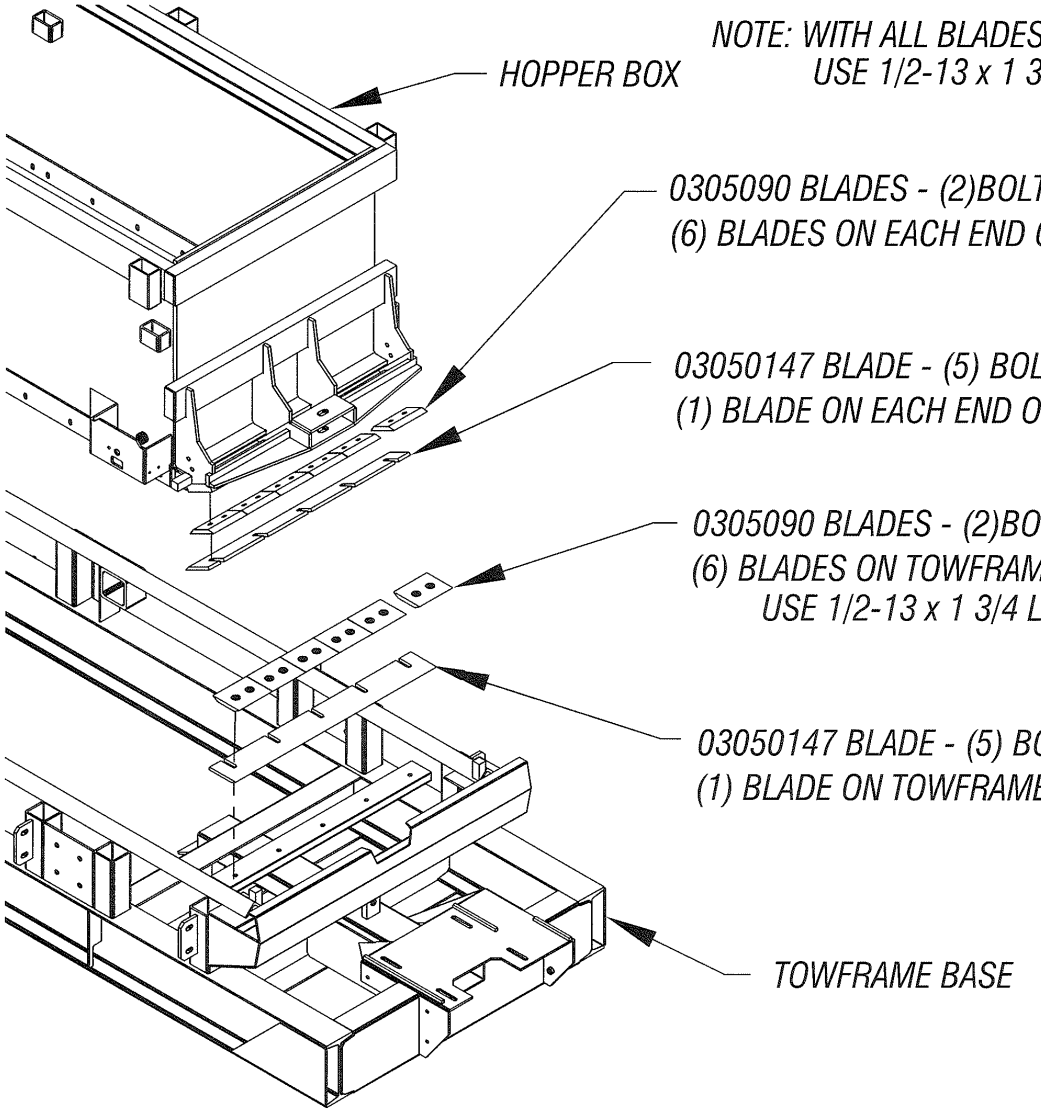
- Grease all Bearings (including but not limited to the following)
    - Cutter head bearings
    - Belt drive system
    - Chain drive system
    - Wood box wheels
    - Wood box switcher grease points
    - Clutch grease points (if equipped with diesel engine and clutch set up)

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



NOTE: WITH ALL BLADES
USE 1/2-13 x 1 3/4 LG FLT HD SOC CAP SCREWS #0346483

HOPPER BOX

0305090 BLADES - (2)BOLTS,1/2 THK, DOUBLE SIDED CUTTING EDGE
(6) BLADES ON EACH END OF HOPPER BOX S/N 0055 and DOWN

03050147 BLADE - (5) BOLTS, 3/8 THK, SINGLE SIDE CUTTING EDGE
(1) BLADE ON EACH END OF HOPPER BOX S/N 0055 and UP

0305090 BLADES - (2)BOLTS, 1/2 THK, DOUBLE SIDED CUTTING EDGE
(6) BLADES ON TOWFRAME BASE S/N 0055 and DOWN
USE 1/2-13 x 1 3/4 LG FLT HD SOC CAP SCREWS #0346483

03050147 BLADE - (5) BOLTS, 3/8 THK, SINGLE SIDE CUTTING EDGE
(1) BLADE ON TOWFRAME BASE S/N 0055 and UP

TOWFRAME BASE

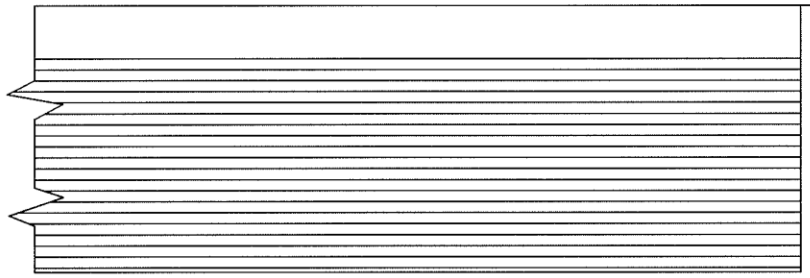
30" SHAVING MILL

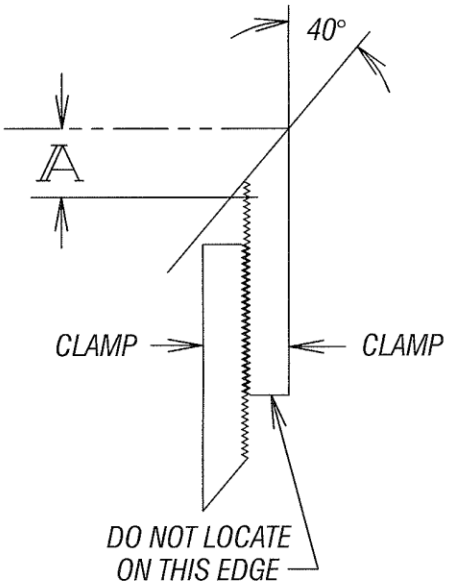
SALSCO 05-29-2008

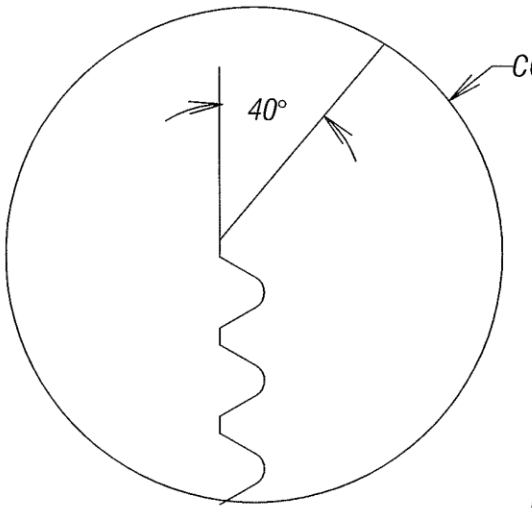
ITEM	DESCRIPTION	PART NO	QTY
X	XXXXXXXXXXXXXXXXXX	XXXXXXX	X

ISSUED: 01-24-2008

REVISIONS		
REV	DESCRIPTION	DATE





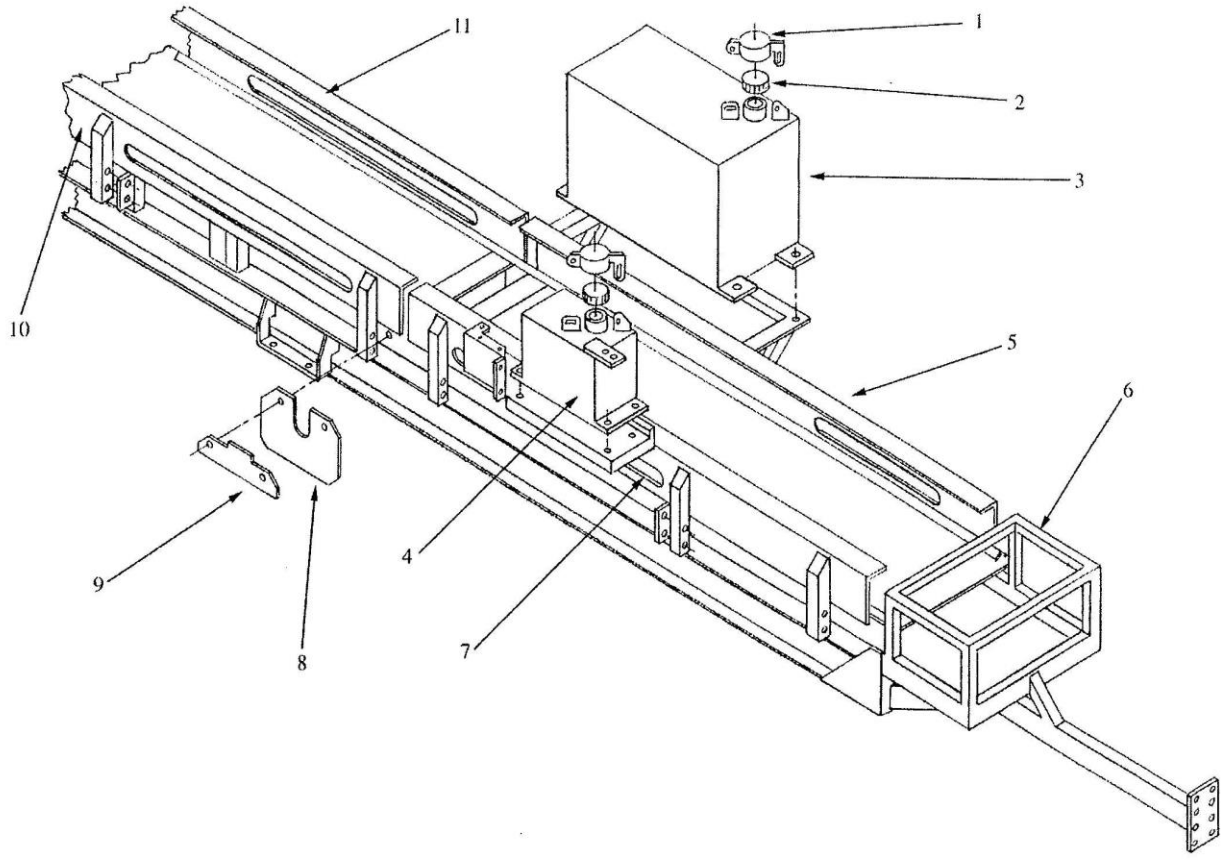


NOTE — DISTANCE A MUST BE CONTROLLED FROM CORRUGATED GROOVE (AS SHOWN), AND BE THE SAME ON ALL BLADE KNIVES

BLADE KNIFE - FOR SALSCO SHAVING MILL

DRAWING # 1

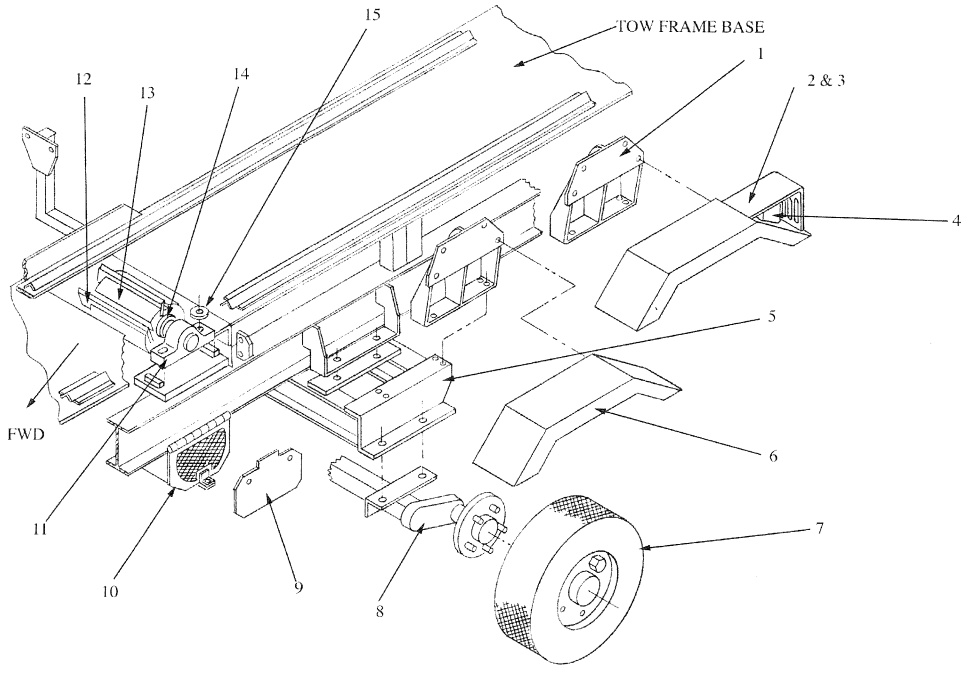
ITEM #	DESCRIPTION	PART #	QTY.
1	Cap, Gas/Oil Fill Locking	0271024	2
2	Cap, Filler	0371061	2
3	Tank, Fuel	0252073	1
4	Tank, Hydraulic Oil	0252087	1
5	Guide, Hopper Track, Left Front	0222128	1
6	Tow Frame, Base	0219300	1
7	Guide, Hopper Track, Right Front	0222129	1
8	Cover, Cutter Shaft, Drive Side	0471216	1
9	Cover, Shaft, Drive Side, Upper	0471217	1
10	Guide, Hopper Track, Right Rear	0222127	1
11	Guide, Hopper Track, Left Rear	0222126	1



****** ITEM # 11 – PAY SPECIAL ATTENTION TO MANUFACTURERS LUBRICATION GUIDELINES ON THE FOLLOWING PAGES**

DRAWING # 2

ITEM #	DESCRIPTION	PART #	QTY.
1	Mount, Fenders	0276440	4
2	Fender, Tail Light, Left	0216043	1
3	Fender Tail Light, Right	0216042	1
4	Light Kit, Tail	0361006	1 set
5	Frame, Axle Mounting	0219301	1
6	Fender, without Tail Light	0216044	2
7	Tire/Wheel Assy.	0354069	4
8	Axle, Torflex-Electric	0302083	2
9	Cover, Cutter Shaft, Left	0471215	1
10	Screen Door, Shaving Duct	0260028	1
11	Bearing, Pillow Block	0303080	2
12	Knives, Corrugated	0305084	15
13	Shaft, Cutter	0348145	1
14	Ring Spacer, Cutter Shaft	0443050	2
15	Washer, Pillow Block Bearing	0453310	4



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.

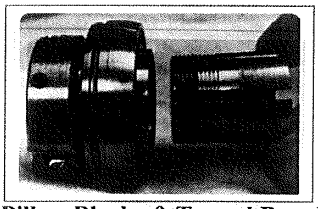


Table 3 - Locknut Rotation From Handtight

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

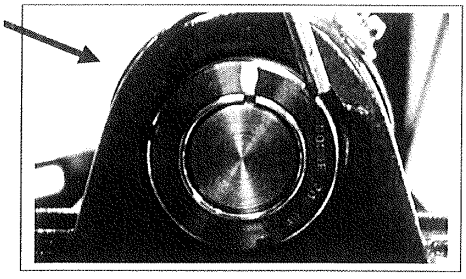
5) Lock bearing to shaft by rotating locknut, with a spanner wrench or brass bar & hammer, clockwise by amount shown in Table 3. NOTE: The use of air chisels is not recommended.

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.

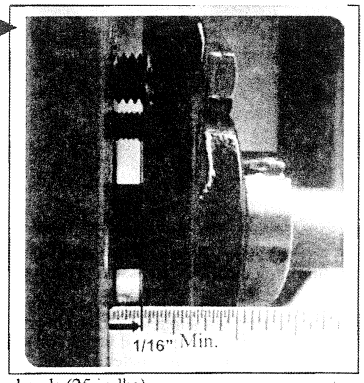
3) Slide the FIRST unit into position onto the shaft. If the bearing will not slip onto the shaft or more axially, turn locknut counter clockwise to expand adapter sleeve.

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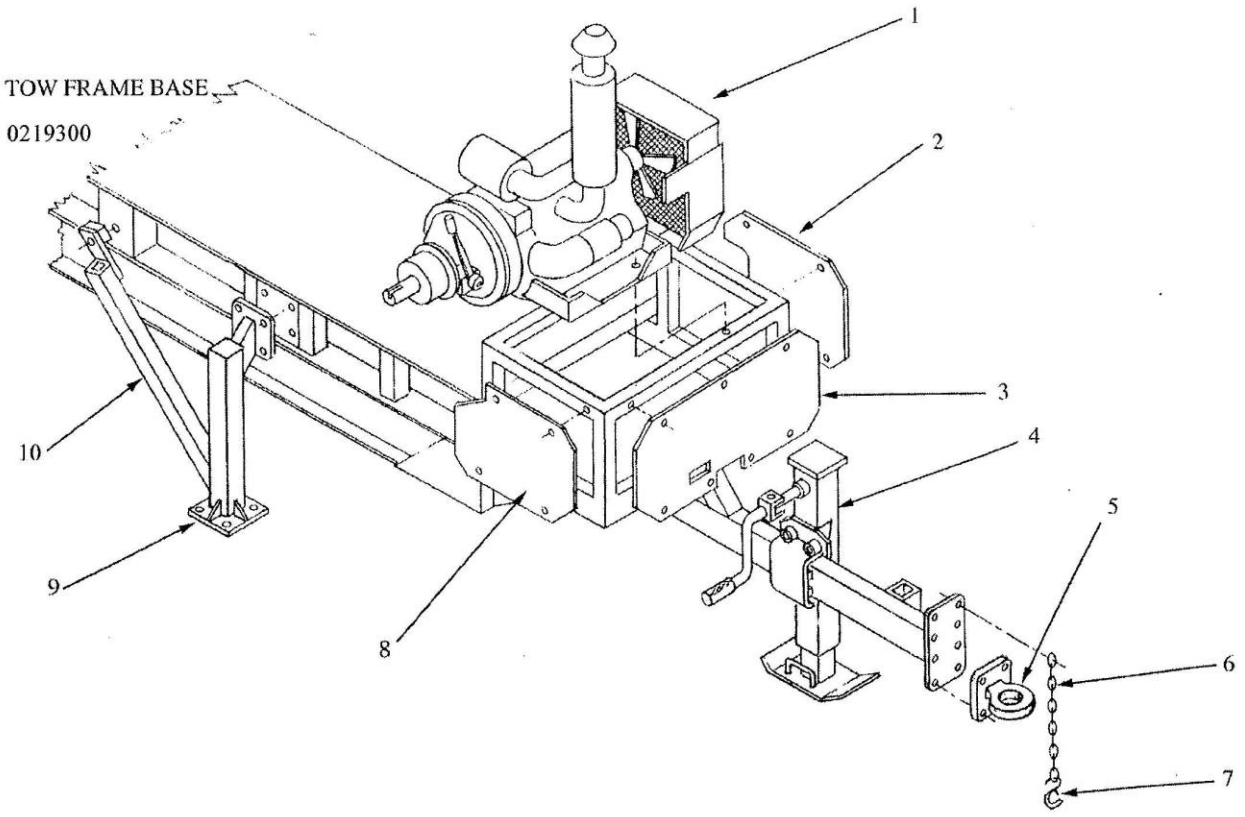
Baldor - DODGE/Reliance
6040 Ponders Court, Greenville, SC 29615-4617 U.S.A., Ph: (1) 864.297.4800, FAX: (1) 864.281.2433

IM499312

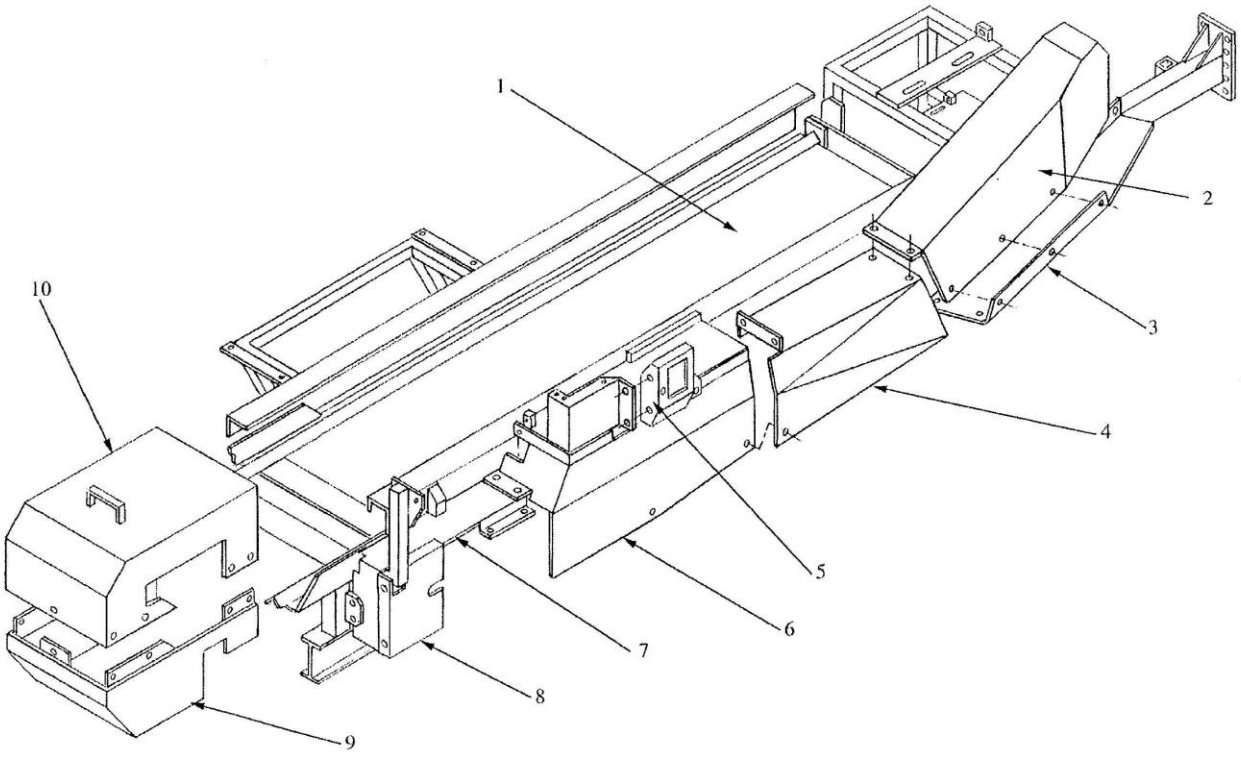
DRAWING # 3

ITEM #	DESCRIPTION	PART #	QTY.
1	Engine Assembly	See Engine Opt.	1
2	Cover, Main Drive, Left	0471212	1
3	Cover, Main Drive, Front	0471227	1
4	Jack, 9000#	0369009	1
5	Hitch, Pintle Ring	0325077	1
6	Chain, Safety	0309056	2
7	Hook, Safety	0309057	2
8	Cover, Main Drive, Right	0471213	1
9	Stand, Base Support	0273018	4
10	Stand, Brace	0273024	4



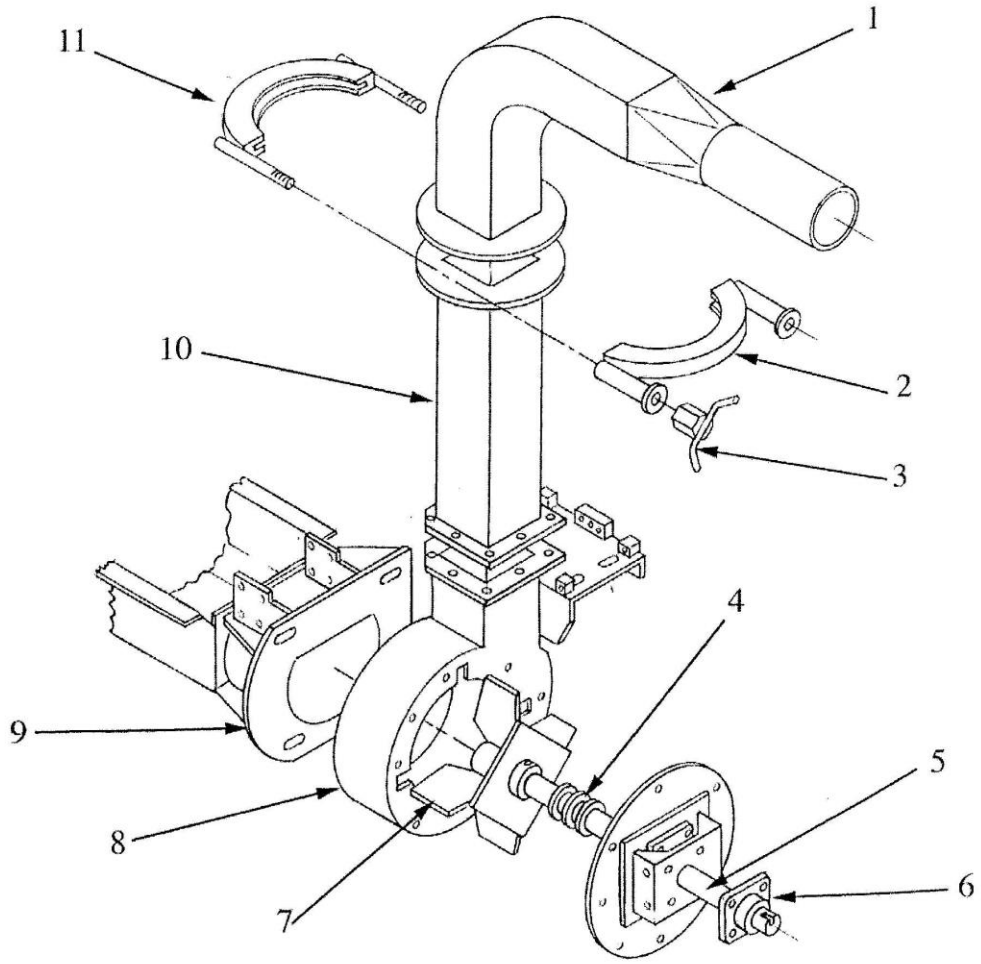
DRAWING # 4

ITEM #	DESCRIPTION	PART #	QTY.
1	Tow Frame, Base	0219300	1
2	Guard, Engine Belt	0221359	1
3	Panel, Engine Belt Guard, Bottom	0239584	1
4	Guard, Forward Idler	0221361	1
5	Box, Engine Ignition Control	See Engine Opt.	1
6	Guard, Idler	0221363	1
7	Guard, Cutter Shaft Drive	0221360	1
8	Guard, Cutter Pulley	0421356	1
9	Guard, Drive Sprocket, Lower Rear	0221380	1
10	Guard, Drive Sprocket, Upper Rear	0221379	1



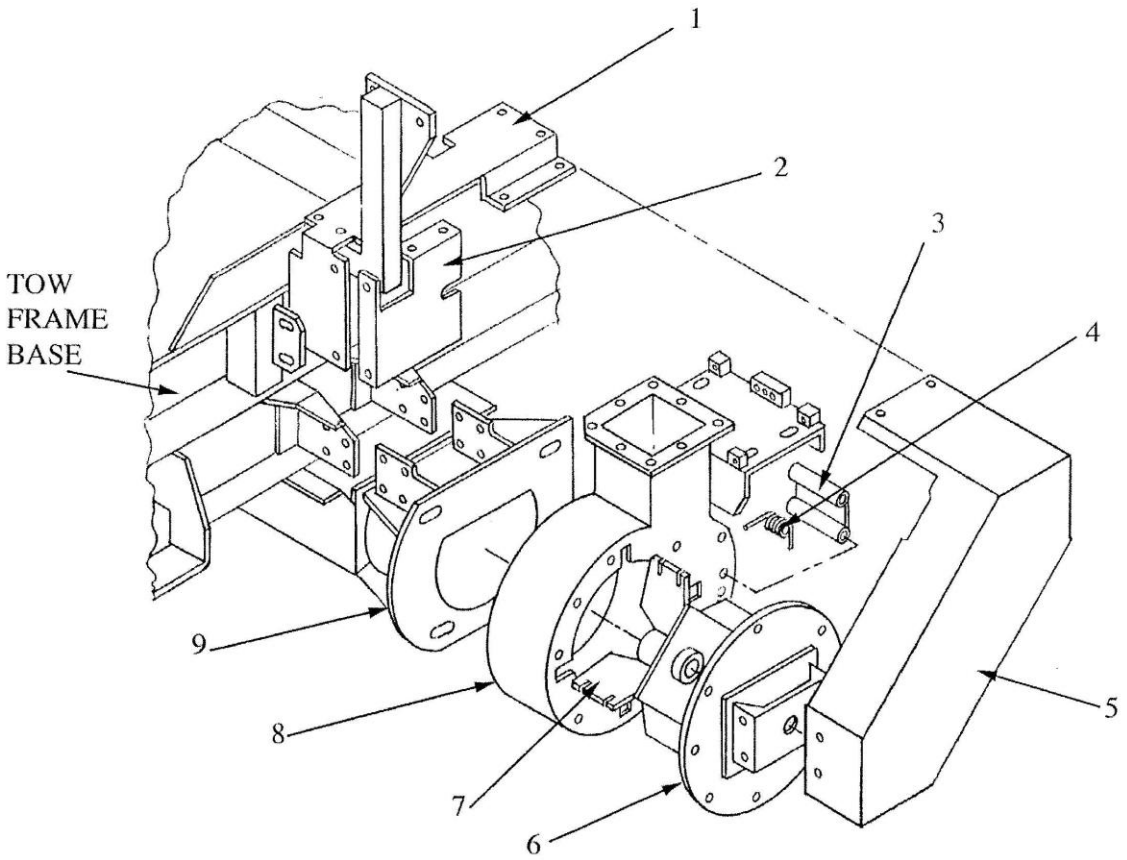
DRAWING # 5

ITEM #	DESCRIPTION	PART #	QTY.
1	Chute, Exhaust, 90°	0226132	1
2	Clamp, Front Half	0210067	1
3	Wing Nut, Discharge Chute Clamp	0238501	2
4	Washer/Spacer, Impeller Shaft	0453309	3
5	Shaft, Impeller	0448153	1
6	Bearing, Flanged	0303042	2
7	Plate, Impeller	0262090	1
8	Housing, Blower	0228227	1
9	Housing, Blower Duct	0228231	1
10	Chute, Straight Exhaust	0226133	1
11	Clamp, Rear Half	0210103	1



DRAWING # 6

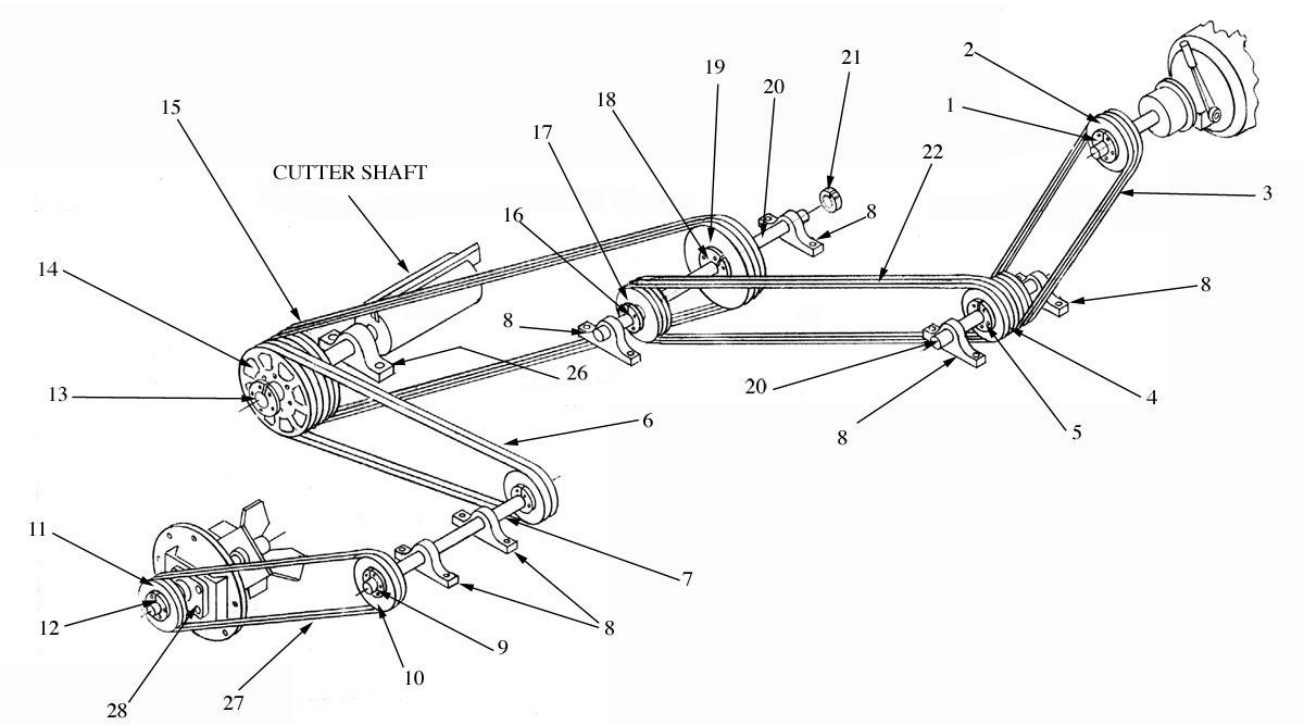
ITEM #	DESCRIPTION	PART #	QTY.
1	Guard, Cutter Shaft	0221360	1
2	Guard, Cutter Pulley	0421356	1
3	Cover, Spring Retainer	0271223	2
4	Spring, Torsion	0350017	4
5	Guard, Blower and Idler	0221352	1
6	Housing, Blower-Impeller/Bearing Support	0228190	1
7	Impeller	0262090	1
8	Housing, Blower	0228227	1
9	Housing, Blower Duct	0228231	1



DRAWING # 7

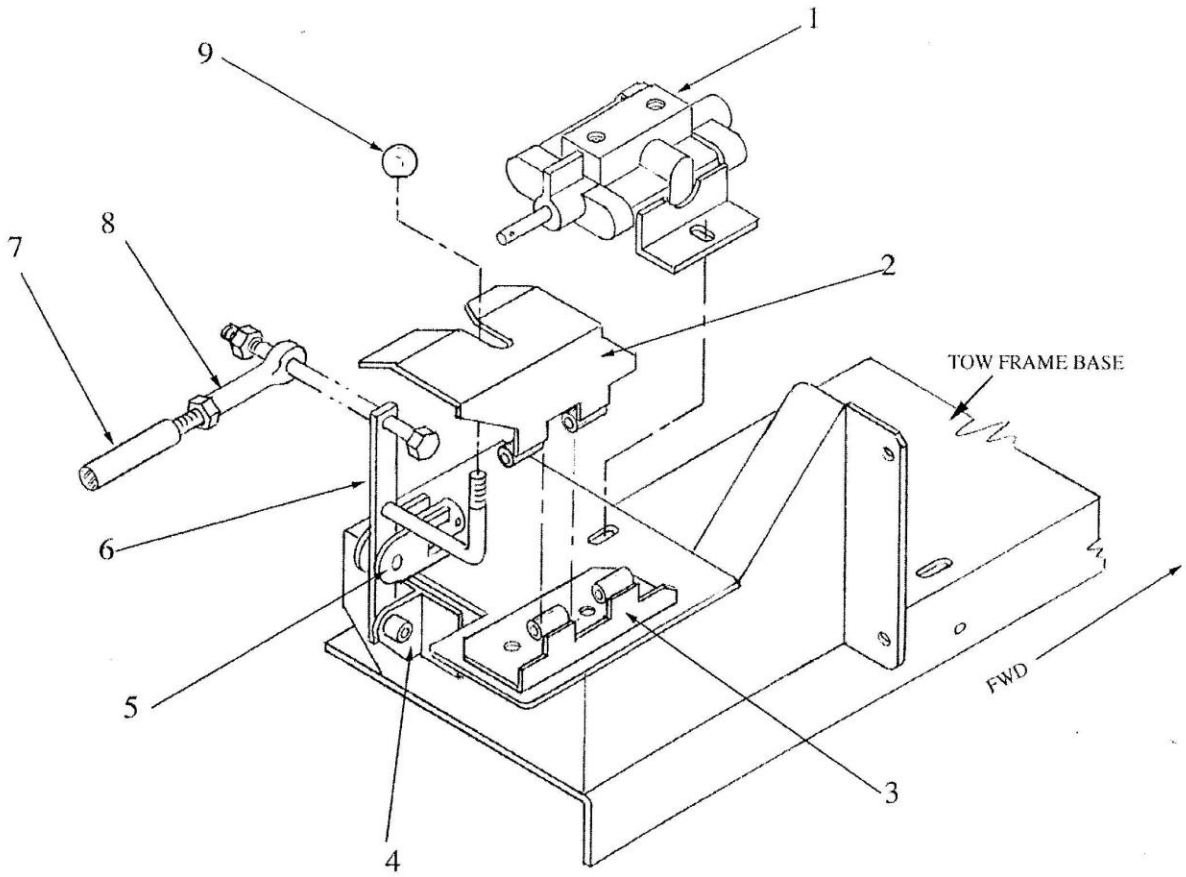
NOTE: Item # 26 – PAY SPECIAL ATTENTION TO MANUFACTURERS LUBRICATION GUIDELINES ON PAGES 13-14 OF THIS MANUAL.

Item #	Description	Part #	Qty.
1	QD Bushing, Engine	See Engine Option	1
2	Sheave, Engine	0342047	1
3	V-Belt, Engine to Interm	See Engine Option	1
4	Sheave, Engine Idler	0342146	1
5	QD Bushing, Engine Idler	0342045	1
6	V-Belt (61") Cutter to Jack Shaft	0304014	2
7	Jack Shaft, Blower Idler	0448157	1
8	Bearing, Pillow Block	0303057	6
9	QD Bushing, Blower Jack Shaft	0342038	2
10	Sheave, Blower Idler	0342121	2
11	Sheave, Blower	0342153	1
12	QD Bushing, Blower	0342048	1
13	QD Bushing, Cutter	0342123	1
14	Sheave, Cutter	0342118	1
15	V-Belt, Banded, Idler to Cutter (111" L)	0304093	1
16	QD Bushing, Idler to Pump	0342091	1
17	Sheave, Idler to Pump	0342147	1
18	QD Bushing, Cutter Idler	0342045	1
19	Sheave, Cutter Idler	0342027	1
20	Shaft, Cutter Idler	0448187	2
21	Collar, Single Split	0311032	6
22	V-Belt, Banded, Intermediate (123" L)	0304094	1
26	Bearing, PB, 2 Bolt 3"	0303080	2
27	V-Belt No. B71	0304092	2
28	Flgd. Bearing, 4-Bolt 1-7/16	0303042	1



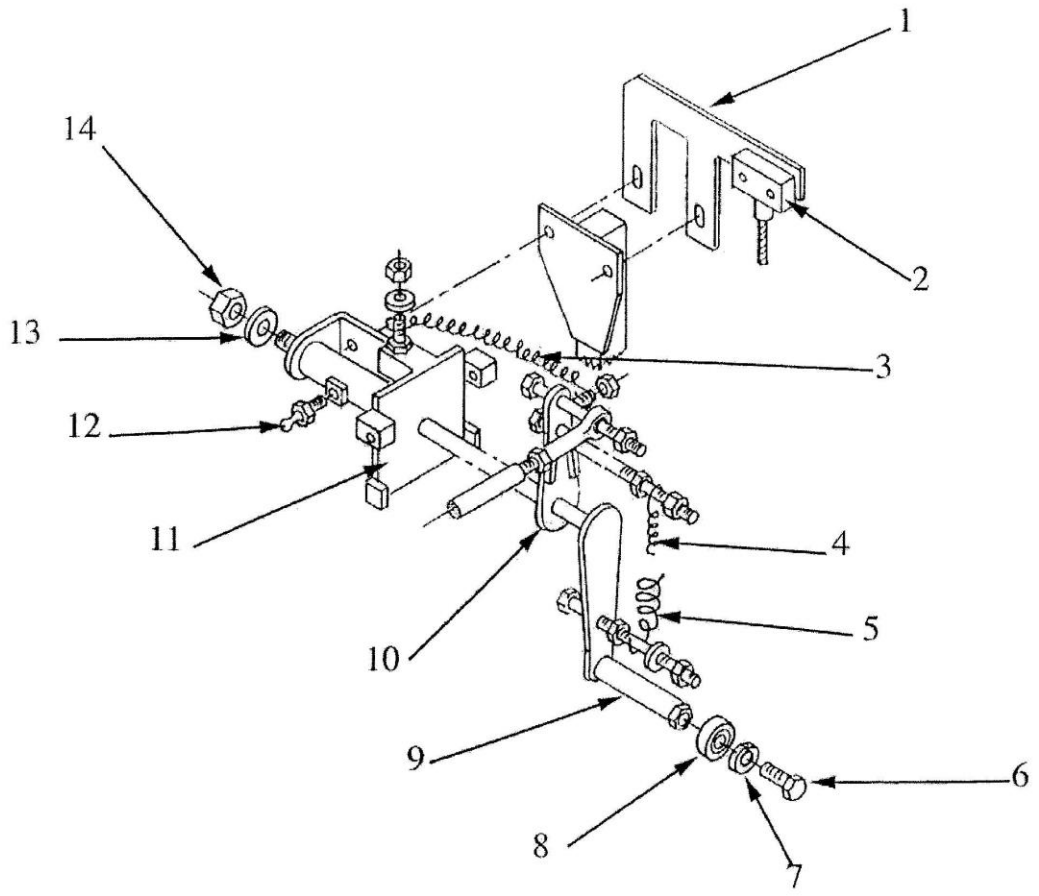
DRAWING # 8

ITEM #	DESCRIPTION	PART #	QTY.
1	Valve, Forward/Reverse Directional	0330147	1
2	Bracket, Neutral, Safety Locking	0206766	1
3	Bracket, Neutral Safety	0206767	1
4	Mount, Forward/Reverse Lever	0276502	1
5	Yoke, Forward/Reverse Valve	0274031	1
6	Lever, Forward/Reverse	0233178	1
7	Rod, Forward/Reverse	0245156	1
8	Ball Joint, Rod End	0303019	2
9	Knob, Plastic Ball	0332005	1



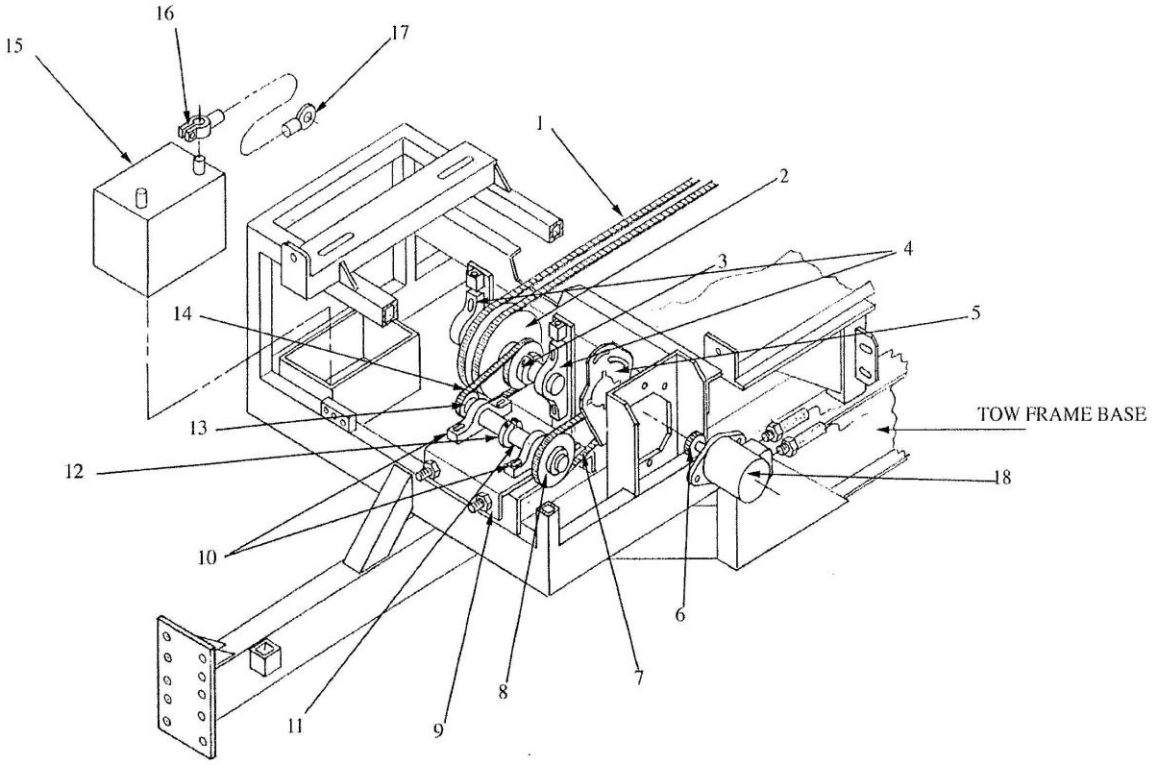
DRAWING # 9

ITEM #	DESCRIPTION	PART #	QTY.
1	Bracket, Hopper Stop Switch	0406636	1
2	Switch, Snap Action	0315215	2
3	Spring, Extension, Top	0350009	1
4	Spring, Extension, Inner	0350012	1
5	Spring, Extension, Outer	0350042	1
6	Bolt, Hex Head	0346343	1
7	Washer, Split Lock	0353013	1
8	Roller, Ball Bearing	0303036	1
9	Arm, Forward/Reverse, Lower	0265097	1
10	Arm, Forward/Reverse, Upper	0265082	1
11	Lever Base, Forward/Reverse, Hydraulic Pump	0233154	1
12	Fitting, Grease	0317148	1
13	Washer, Flat	0353107	1
14	Nut, Hex, Nylon Lock	0338106	1



DRAWING # 10

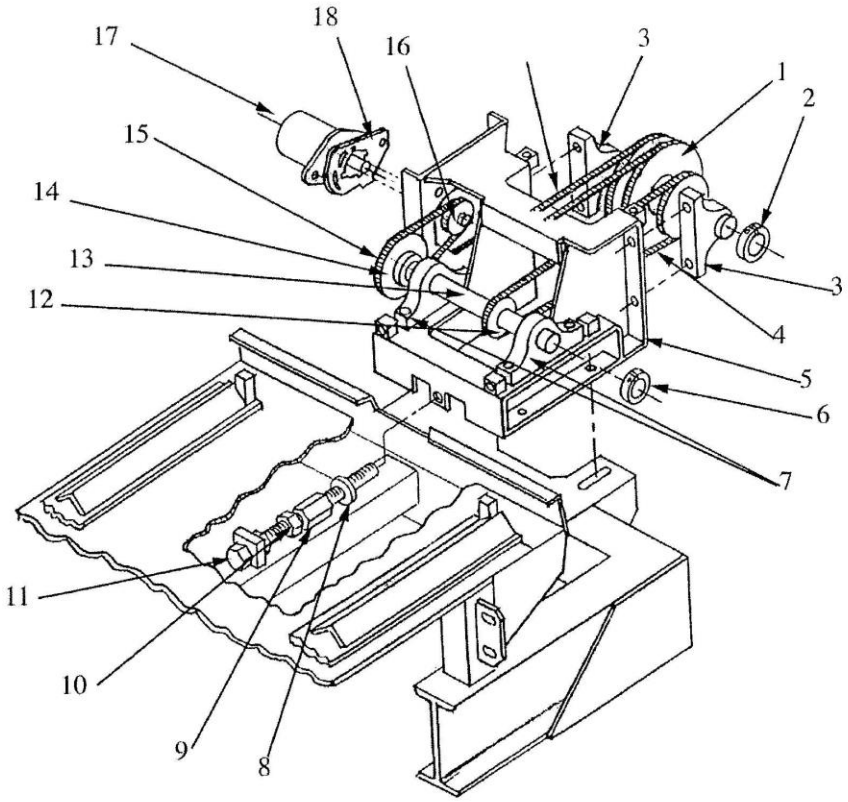
ITEM #	DESCRIPTION	PART #	QTY.
1	Roller Chain, Hopper	N/A	2
2	Shaft, Sprocket, Hopper Chain	0248191	1
3	Collar, Split	0311042	2
4	Bearing, Pillow Block	0303063	2
5	Mount, Hydraulic Motor	0476059	1
6	Sprocket, (16) Hydraulic Motor	0351023	1
7	Chain, Motor to Jack Shaft	N/A	1
8	Sprocket, (48) Jack Shaft	0251155	1
9	Plate, Idler Slide, Front	0262109	1



ITEM#	DESCRIPTION	PART#	QTY.
10	Bearing, Pillow Block	0303057	2
11	Jack Shaft, Hopper Chain	0448189	1
12	Collar, Split	0311032	2
13	Sprocket, (16), Jack Shaft	0251154	1
14	Chain, Jack Shaft to Chain Drive	N/A	1
15	Battery, 12V	0315122	1
16	Terminal, Battery Top Post	0315058	2
17	Eyelet, Battery	0315059	2
18	Motor, Hydraulic Drive	0330142	1

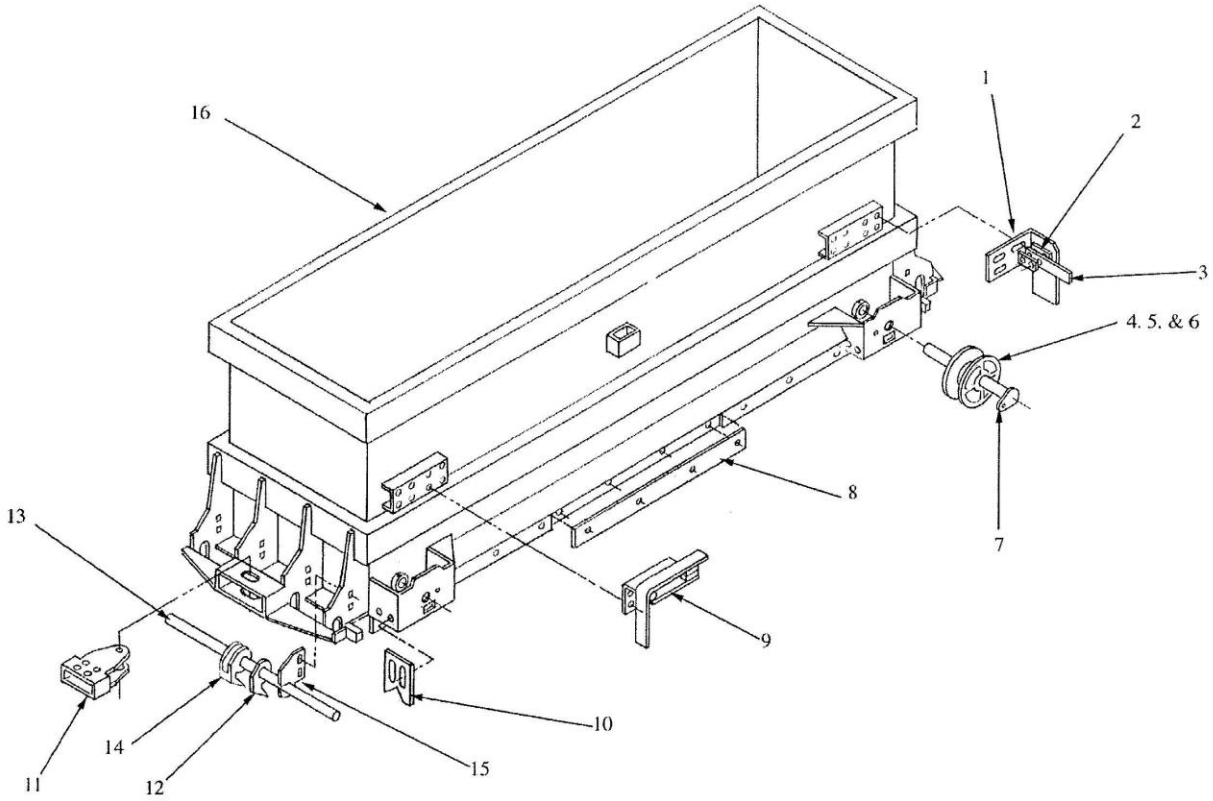
DRAWING # 11

ITEM #	DESCRIPTION	PART #	QTY.
1	Shaft/Sprocket, Hopper Chain	0248191	1
2	Collar, Split	0311042	2
3	Bearing, Pillow Block	0303063	2
4	Chain, Jack Shaft to Chain Drive	N/A	1
5	Adjuster, Hopper Drive	0201027	1
6	Collar, Split	0311032	2
7	Bearing, Pillow Block	0303057	2
8	Washer, Flat	0353109	1
9	Nut, Coupling	0338451	1
10	Nut, Hex	0338012	2
11	Rod, Pusher	0245141	1
12	Sprocket, (16) Jack Shaft	0251154	1
13	Jack Shaft, Hopper Chain	0448189	1
14	Sprocket, (48) Jack Shaft	0251155	1
15	Chain, Motor to Jack Shaft	N/A	1
16	Sprocket, (16) Hydraulic Motor	0351023	1
17	Motor, Hydraulic Drive	0330142	1
18	Mount, Hydraulic Motor	0476059	1
19	Roller Chain, Hopper	N/A	2



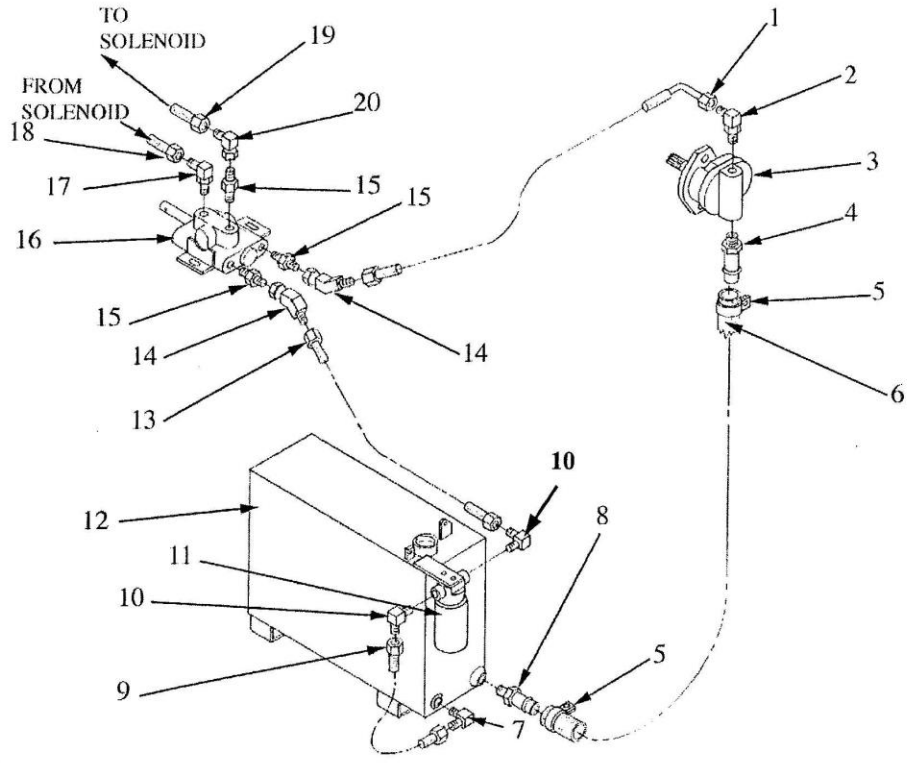
DRAWING # 12

ITEM #	DESCRIPTION	PART #	QTY.
1	Plate, Hopper, Reverse Stop	0462072	1
2	Spacer, Hopper Stop Switch, Short	0449180	2
3	Spacer, Hopper Stop Switch, Long	0449181	1
4	Wheel, V-Groove	0354064	4
5	Wheel, Bearing, Roll	0354082	4
6	Wheel, Bearing, Retainer	0354083	8
7	Shaft, Caster	0248148	4
8	Strip, Plastic	0436116	4
9	Bracket, Hopper Stop, Rear	0206646	1
10	Scraper, Hopper Track	0405116	8
11	Bracket, Hopper Drive Chain Pivot	0206658	2
12	Cam, Top Single	1001101	214
13	Shaft, Cam		1
14	Cam, Stop, Weld	0282058	2
15	Stop Cam Locator	0482054	2
16	Box, Hopper	0280035	1



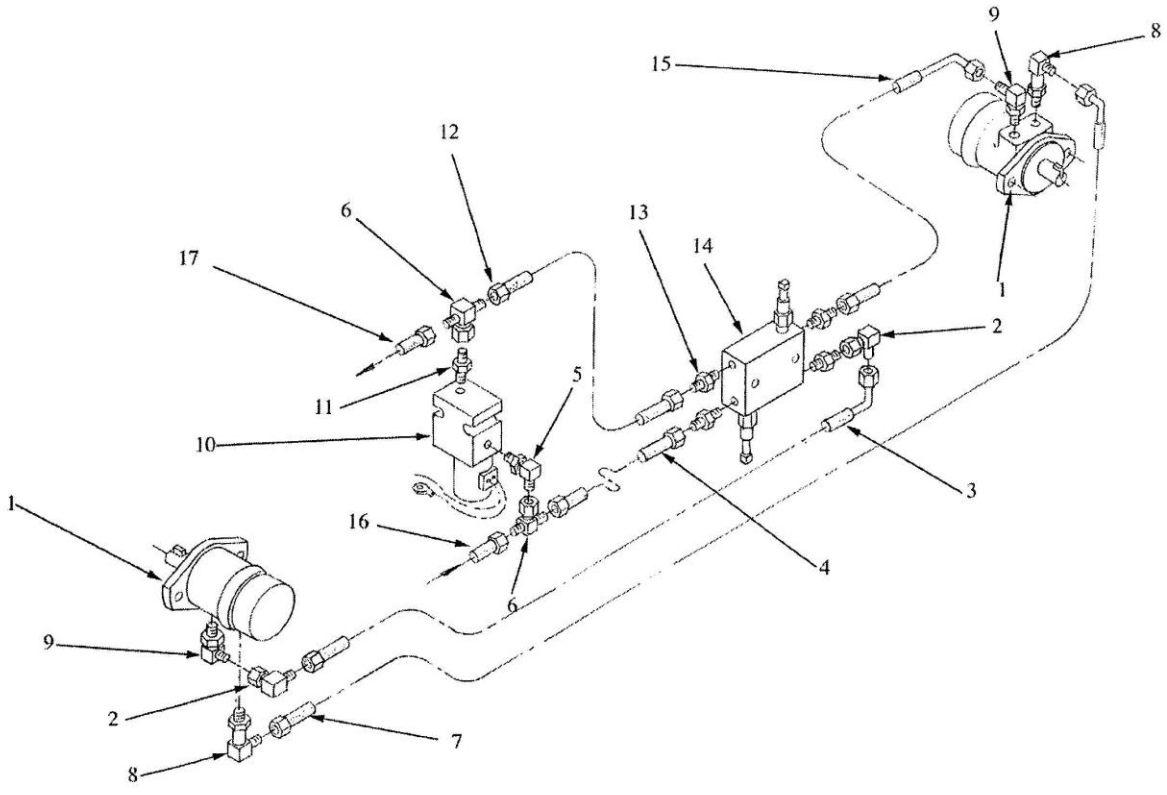
DRAWING # 13

ITEM #	DESCRIPTION	PART #	QTY.
1	Hose, Pump to Valve (132")	0327097	1
2	Elbow, 90° with O-Ring	0317008	1
3	Pump, Live Hydraulic	0330136	1
4	Hose, Barb with O-Ring	0317129	1
5	Hose, Clamp	0310031	2
6	Hose, 1" I.D.	0327111	1
7	Elbow, 90°	0317052	1
8	Hose, Barb, Pipe Thread	0317220	1
9	Hose, Filter to Tank (16")	0327301	1
10	Elbow Adapter 90°	0317040	2
11	Oil Filter with Housing	0318002	1
12	Tank, Hydraulic Oil	0252087	1
13	Hose, Valve to Filter (53")	0327293	1
14	Elbow Adapter 45°	0317033	2
15	Connector, Male, with O-Ring	0317066	3
16	Valve, Directional	0330147	1
17	Elbow, 90°, with O-Ring	0317064	1
18	Hose, Solenoid To Valve (74")	0327311	1
19	Hose, Directional Valve to Solenoid (70")	0327310	1
20	Elbow, 90°, Swivel, M/F	0317028	1



DRAWING # 14

ITEM #	DESCRIPTION	PART #	QTY.
1	Motor, Hydraulic Drive	0330142	1
2	Elbow, 90°, Swivel	0317028	2
3	Hose, Relieve Valve to Rear Motor (75")	0327239	1
4	Hose, Relieve Valve to Solenoid (24")	0327095	1
5	Elbow, 90°, O-Ring	0317007	1
6	Tee, Swivel	0317171	2
7	Hose, Motor to Motor (280")	0327240	1
8	Elbow, O-Ring, 90° Long	0317250	2
9	Elbow, 90° O-Ring	0317008	2
10	Valve, Solenoid	0330106	1
11	Adapter, Male, O-Ring	0317030	1
12	Hose, Solenoid to Relieve Valve (26")	0327112	1
13	Connector, Male, O-Ring	0317027	4
14	Valve, Relieve, D/C	0330089	1
15	Hose, Front Motor to Relieve Valve (235")	0327241	1
16		0327310	1
17		0327311	1

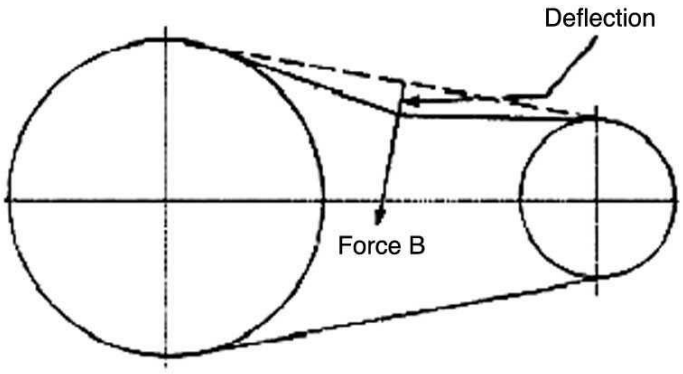


Below is a quick reference chart for various “Flat Head Cap Screws” and the torque recommendations.

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:		
Work Performed/Comments on Repair:		

Shop Labor Rate:						**Submitted By:**		
Total Labor Hours to Repair:						**Printed Name:**		
Parts Required for repair								
Salsco Part #: Description:						Qty.	Price Each	Total	Inv #
								$	
								$	
								$	
								$	

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:			

SALSCO LIMITED WARRANTY CARD

DATE PURCHASED:				
PURCHASER:	ADDRESS:	CITY:	ST:	ZIP:
EMAIL:		PHONE:		
DEALER:		STATE: CT		

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

MODEL # ________ S/N_______________________

DATE PURCHASED:____________