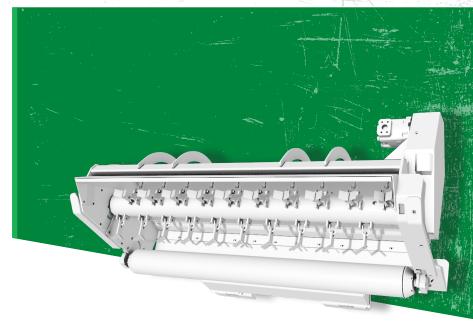
# SKID-STEER / COMPACT TRACK LOADER FLAIL MOWER

## **OPERATOR'S MANUAL**





**DIAMONDMOWERS.COM** 



#### PRODUCT INFORMATION

Record the model and serial number of your unit here. When calling for warranty, service or parts, you may be asked to provide this information, in order to ensure fast, accurate service.

| MODEL: F | lail Mower | SIZE: | 75"(1905mm) | 90"(2286mm) | 102"(2591mm) |
|----------|------------|-------|-------------|-------------|--------------|
|          |            |       |             |             |              |

(circle one)

| SERIAL NUMBER: |
|----------------|
|----------------|

Any failure to read, understand and follow the instructions found in this operator's manual could lead to serious injury. Operators who choose to operate this equipment without following instructions, or who choose to operate this equipment in a manner inconsistent with the recommendations set forth in this manual, do so at their own risk and assume the risk of injury. Diamond Mowers will not be liable for an owner or operator's loss, damage, or injury due to the misuse of the equipment, failure to understand the inherent risks, or inability to properly operate the equipment.

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Provisional Patents: 62/484,363



Thank you for choosing Diamond Mowers, and welcome to your Skid-Steer / Compact Track Loader Flail Mower. Before you begin operating, we encourage you to look through this manual to review the proper maintenance and operating techniques that will keep you, and your equipment, safe — while ensuring you the most productive Flail Mower in the market.

We have nothing but respect and admiration for you. Our job at Diamond is to provide you with the toughest, most reliable and safest equipment that will allow you to do your job better. That also means being there when you need us.

#### **CONTACT US:**

Parts: 888.960.0361 | parts@diamondmowers.com

Warranty / Service: 888.960.0364 | warranty@diamondmowers.com

Main Office: 800.658.5561 | 605.977.3300

Website: www.diamondmowers.com | Email: info@diamondmowers.com

#### Your time is important to us.

We guarantee that Genuine Diamond Parts will ship within 72-hours of the order being placed or the parts and shipping are free.

## Your satisfaction is guaranteed.

If you are not completely satisfied with your new Diamond in the first 30-days, we will buy it back. No questions asked.

### Thanks again for choosing Diamond.

1\_ /h

If at any time your needs are not being met by our team, please feel free to call me direct.

Tim Kubista VP Sales & Marketing 651.955.6665

## PRODUCT REGISTRATION

#### **OWNER REGISTRATION**

In your welcome packet you should have received a warranty registration form. Complete and return this form to our main office. It's a self-mailer, so no postage is required.

If you'd rather complete this info online, go to: http://info.diamondmowers.com/register-my-product

Returning your registration information to Diamond will help us process any warranty claims quickly and efficiently – so you can get back to work, fast.

#### TRANSFERRED OWNERSHIP

If you have acquired this Flail Mower from a previous owner, we encourage you to register your equipment online. By registering your Diamond Mowers unit, you'll stay informed on product advancements, offers and service alerts.

Register by going to: http://info.diamondmowers.com/register-my-product

We honor our equipment's warranty from the date it was put into service, no matter who's in charge of running it.

For any questions, contact our Warranty / Service team at: 888.960.0364 or 605.977.3300 warranty@diamondmowers.com



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## INTENDED USE

## This attachment is designed to be used for mowing and light brush management applications.

This includes:

- Cutting grass.
- Mulching light brush.
- Cutting a maximum of 2" (51mm) material continuously.

This attachment should only be used in an area free of obstructions and bystanders. Any use on non-vegetative material, or in an area that is not clear of persons and property, is strictly prohibited. Any use outside of the aforementioned application is considered contrary to its intended use. Any damage that may occur as a result of misuse will void warranty as stated in Diamond Mowers' warranty policy.

## NOTICE

Do not operate this unit without first reading the safety precautions and operating instructions in this manual.

## TAKE A LOOK AROUND



#### **KNIVES**

The cutting shaft is equipped with heavy duty brush and grass blades for a smooth, even cut.



#### **HYDRAULIC MOTOR**

Flail mowers equipped with a high flow / high efficiency hydraulic motor matched to your skid-steer / compact track loader.



#### **BELT DRIVE**

Heavy duty flails use a high strength belt with an automatic self-tensioner; no manual adjustment needed.



#### **BEARINGS**

For long life and reliability, flail cutting shafts and ground rollers are equipped with the best bearings in the industry.



#### HOSES

Shipped with quick couplers and a case drain line with both male and female ends.

## GETTING STARTED



#### MACHINE FLOW

Diamond's Flail Mower must be used on a high flow machine capable of 32-45 GPM (122-171 LPM) and have a case drain.

#### SHATTER RESISTANT ENCLOSURE

A shatter resistant enclosure is **REQUIRED!** This product must not be used without a shatter resistant cab enclosure. Debris can fly back at the cab and cause injury.



#### **QUICK ATTACH**

The Flail Mower will mount onto the front of the skid-steer / compact track loader quick attach plate in place of a bucket or other implements.



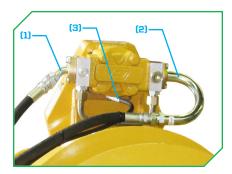
#### **QD COUPLERS**

The case drain line must be properly connected or you will damage your hydraulic motor. The case drain line will come equipped with both male and female QD couplers.

- Install the QD coupler(s) that matches the machine.
- Attachment is shipped with 1/2" flat face connectors, which are a common size for most skid-steer / compact track loaders.
- Clean connections before attaching to prevent contamination.

CONTINUED ON NEXT PAGE

## GETTING STARTED





- The pressure<sub>(1)</sub>, return<sub>(2)</sub>, and case drain<sub>(3)</sub> hoses from your flail mower are identified in the illustration at left.
- Make sure the hose length outside of the bracket<sub>(4)</sub> is long enough for the head to make a full range of motion, but not so long that the hose can pinch.
- Start machine at low idle and verify that the cutting shaft is spinning in "Reverse" rotation.

#### O NOTE:

- "Forward" rotation is defined as blade rotation the same as the skid-steer / compact track loader tires when driving forward. "Reverse" rotation is the opposite.
- If the cutting shaft is spinning in "Forward" rotation, either inverse the flow from your machine, or switch the QD couplers on the pressurem and return hoses.

## OPERATING YOUR FLAIL MOWER

Before you operate, note that the primary responsibility for safety on this equipment falls to the operator. Only trained individuals who have read and understood this manual should operate this unit.

If any portion of this manual is not understood, contact: Diamond Mowers' Service/Warranty at 888.960.0364 or 605.977.3300.

#### SAFETY TIPS

Be sure to read all warnings carefully. They are included for your safety, and for the safety of others working with you.

## **NOTICE**

Indicates a property damage hazard ONLY, no PERSONAL injury.

## **⚠ CAUTION**

Indicates where MINOR injury COULD result if instructions are not followed.

## **WARNING**

Indicates where *SERIOUS* injury or death *COULD* result if instructions are not followed.

## **▲** DANGER

Indicates where *SERIOUS* injury or death *WILL* result if instructions are not followed.

- Always wear personal protective equipment (safety glasses, goggles, etc.), when operating.
- DO NOT operate this unit without a shatter resistant cab enclosure installed on your skid-steer / compact track loader; this unit will cause flying debris.
- Block off work area from bystanders, livestock, etc.
- Bystanders must keep a distance of 300ft/100m from the unit when operating.
- Knives are always sharp and can cause injury, even when not in motion.

- DO NOT use extremities to dislodge debris from the cutting shaft or knives.
- Operate only from the operator's station.
- Hydraulic fluid is hot and will heat any exposed steel, hoses, motor, or spindle in its proximity.
- Route hoses correctly to ensure a full range of motion.
- Make certain hoses are out of the way of tires, tracks or the ground.
- Be certain the cutting shaft has come to a complete stop before exiting the cab.



#### STOWED POSITION

When transporting Diamond's Flail Mower between operations, make sure to protect it from collisions and accidental damages by placing it in the stowed position.

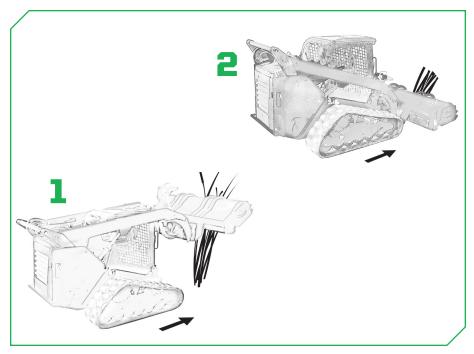
Failure to place the head in its stowed position could result in structural damage.

## **A DANGER**

Contact with the cutting shaft and knives while in motion will cause serious injury or death. The cutting shaft spins at a very high speed and can take several minutes to stop. Be sure all personnel are clear of the machine before engaging the Flail Mower.

## OPERATING YOUR FLAIL MOWER

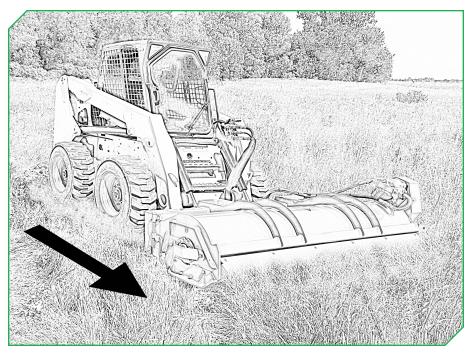
## **GRASS AND BRUSH CUT**



#### Use to cut grass or brush.

- Lower the front of the deck slightly to ensure ample room for exhausted material to be dispersed.
  - If you hear the cutting shaft, or engine slow down, lift up the head and/or slow your ground speed.
- **2** A second pass may be needed for heavy brush or grass.
  - Complete the initial pass at 12" (305mm) into the material.
  - Complete a second pass at ground level to thoroughly mulch the remaining material.

## **FINISHED MOW**

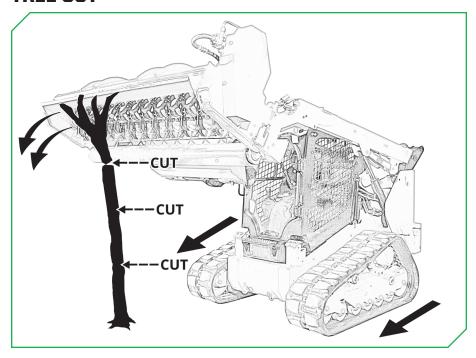


#### Use for a finished look.

- Drive straight into the material keeping the deck low and level, or slightly pitched forward.
- Maintain speed of the cutting shaft and ground speed.

## OPERATING YOUR FLAIL MOWER

#### TREE CUT



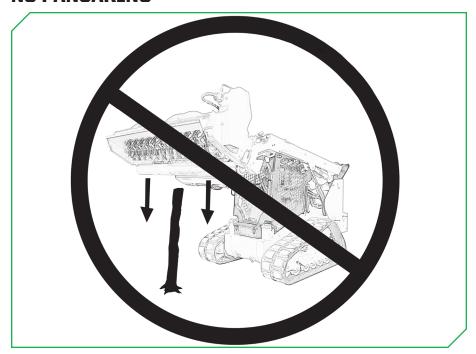
#### Use to cut small trees or brush without mulching.

- For small trees, start working at the top and cut the tree in 12" (305mm) increments.
- With the Flail Mower lifted slightly, drive straight into the material.
- Allow enough time for the tree section to fall away while cutting.
- Use a smooth, quick action to cut the material completely.
  - NOTE: Never drop the mower straight down on trees. Severe damage will incur. NO PANCAKING!

## **MARNING**

Be aware when cutting standing trees as there is a potential for tree tops to fall onto the operator's cab.

### **NO PANCAKING**



#### **DO NOT** pancake.

 This machine is not built to drop on top of material for cutting or mulching. Damage will incur to the cutting shaft and bearings as a result of driving down (pancaking) on top of the material.

## NOTICE

Dropping the Flail Mower straight down (pancaking) on heavy vegetation can cause severe damage to the cutting shaft and bearings.

For more tips, visit us online at www.DiamondMowers.com

## **MAINTENANCE**

Regular maintenance will make certain your unit stays productive and retains a long operating life. The following chart represents the minimum intervals recommended for inspection and maintenance.

#### **MAINTENANCE INTERVALS**

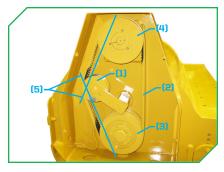
| PROCEDURE                   | 10<br>HOURS/<br>DAILY | 50<br>HOURS/<br>WEEKLY | 500 HOURS/<br>ANNUALLY | AS<br>NEEDED |
|-----------------------------|-----------------------|------------------------|------------------------|--------------|
| BELTS & PULLEYS             |                       |                        |                        | Adjust       |
| CUTTING SHAFT               | Grease                | Inspect                |                        |              |
| DISCHARGE FLAP              |                       | Inspect                |                        |              |
| GROUND ROLLER               |                       |                        | Oil                    |              |
| HYDRAULIC FITTINGS          | Inspect               |                        |                        |              |
| KNIVES                      | Inspect               |                        |                        |              |
| SHATTER RESISTANT ENCLOSURE | Inspect               |                        |                        | Clean        |
| SKID SHOES                  |                       | Inspect                |                        |              |

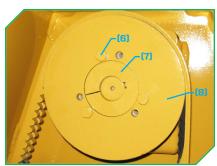
When replacing parts, use Genuine Diamond Parts. Guaranteed to ship within 72-hours of your order being placed, or the parts and shipping are free.

**Call:** 888-960-0361 or 605.977.3300 | **Email:** parts@diamondmowers.com

Order online: www.diamondmowers.com







#### **BELTS AND PULLEYS**

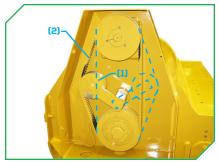
#### **Belt Replacement:**

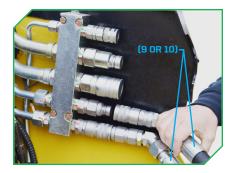
- Remove the access cover.
- Push the idler pulley<sub>(1)</sub> away from the belt<sub>(2)</sub> with a wrench, pry bar, or similar tool to relieve pressure on the belt.
  - DO NOT damage the idler pulley or other components when relieving pressure on the belt.
- Remove the belt from the pulleys.
- Reverse the above instructions to install the new belt<sub>(a)</sub>.
- Replace the access cover.

#### **Pulley Alignment:**

- Use a straight edge<sub>(5)</sub> to confirm the cutting shaft<sub>(3)</sub> and motor<sub>(4)</sub> pulleys are in the same plane as the idler pulley<sub>(1)</sub>.
- If pulley misalignment is found, correct as follows:
  - Loosen the bolts<sub>(6)</sub> holding the tapered collar<sub>(7)</sub> to the out-ofalignment pulley<sub>(8)</sub>.
  - With a padded mallet, tap the pulley<sub>(8)</sub> backwards or forwards on its shaft to align it with the idler pulley<sub>m</sub>.
  - With the pulley<sub>(8)</sub> aligned, tighten the bolts<sub>(6)</sub> holding the tapered collar<sub>(7)</sub> to the pulley.
  - NOTE: This process may be easier without the belt installed.
- Replace the access cover.

## **MAINTENANCE**





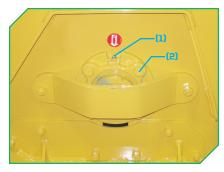




#### **Reversing Cutting Shaft Rotation:**

NOTE: "Forward rotation" is defined as blade rotation the same as the tractor tires when driving forward. "Reverse rotation" is the opposite.

- Remove access cover and belt<sub>(2)</sub>
  from the pulleys as described on the
  previous page.
- Remove the idler pulley<sub>(1)</sub> stop bolt and main center bolt.
- Reposition the idler pulley<sub>(1)</sub> as illustrated (dashed outline).
  - A second location for the idler position stop bolt will be exposed.
  - Re-attach the main center bolt to lock it into position.
- Replace the belt<sub>(2)</sub> as illustrated (dashed outline) and access cover.
- Disconnect the pressure<sub>(9)</sub> and return<sub>(10)</sub> hoses from the skid steer / compact track loader.
  - Clean off dirt and debris prior.
- Swap the pressure<sub>(9)</sub> and return<sub>(10)</sub>
   QD hose connections, and connect the hoses to the skid steer / compact track loader in reverse.
- Install the front shield<sub>(11)</sub> for reverse rotation, or remove it for forward rotation.
- Install the baffle with bolts<sub>(12)</sub> for forward rotation, or remove it for reverse rotation.
  - Reference the parts pages for additional information.



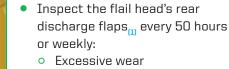




#### **CUTTING SHAFT**

- Grease the cutting shaft bearing zerks<sub>(1)</sub> (1 on each side of the flail) every 10 hours or daily with #2 lithium based grease from a hand grease gun until grease purges from the bearing seals.
- Torque the cutting shaft bearing bolts<sub>(2)</sub> to 90ft-lbs (122Nm) on each side of the flail every 50 hours or weekly.
  - NOTE: The access covers
     covering the pulleys and belt
     must be removed to gain access
     to the cutting shaft bearing bolts
     located underneath the bottom
     pulley of the flail.

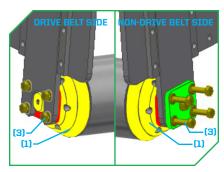


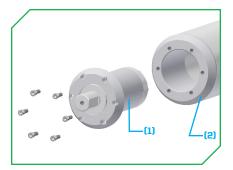


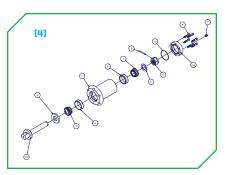
- Cuts, gouges, excessive damage.
- Replace as needed.

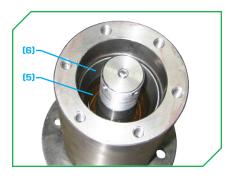


## MAINTENANCE









#### **GROUND ROLLER**

#### **Bearing Maintenance:**

- Each bearing<sub>(1)</sub> must have the oil and O-ring replaced once annually with 7-8oz of synthetic 75-90W oil and a new O-ring.
- Rest the ground roller<sub>(2)</sub> on the ground. Block it from moving.
- Unbolt<sub>(3)</sub> the ground roller<sub>(2)</sub> from each side of the flail.
  - DO NOT reassemble the hardware from one side of the flail on the other.
- Lift the flail head for access to the ground roller.
- Remove the cap screws securing the bearings<sub>(1)</sub> to the ground roller<sub>(2)</sub> on each side.
- Disassemble each bearing<sub>m</sub>.
  - Remove the cap screws, 1/8" NPT plug, and end cap.
  - Discard the old O-ring.
- Remove the roll pin and castle nut<sub>(4)</sub>.
- Pour out the old oil from the insert<sub>w</sub>.
  - Catch and retrieve the thrust washer and taper bearing.
  - Examine the taper bearing its race for damage or wear.
    - No wear; proceed with the next step.
    - Wear detected; contact
       Diamond Mowers for a rebuild
       kit with instruction.
- Pour synthetic SAE 75-90W oil<sub>(5)</sub> into the ground roller insert<sub>(4)</sub> until it just touches the taper bearing race<sub>(6)</sub>.









### **Bearing Maintenance:**

- Place the taper bearing<sub>(7)</sub> over the ground roller shaft and into the taper bearing race.
- Add more synthetic SAE 75-90W oil<sub>(5)</sub> until approximately 1/8" (3mm) above the taper bearing.
- Place a thrust washer<sub>(8)</sub> over the ground roller shaft and on top of the taper bearing race<sub>(7)</sub>.
- Thread the castle nut<sub>(g)</sub> onto the ground roller shaft until it just contacts the thrust washer<sub>(g)</sub>.
  - Find the roll pin hole; if covered, slightly tighten or loosen the castle nut (whichever exposes the hole first) until the hole is fully exposed.
- Lift the ground roller insert, and pull down on the ground roller shaft to check for end-play<sub>(4)</sub>.
  - No end-play; proceed to the next step.
  - End-play detected; tighten the castle nut<sub>(g)</sub> to expose the roll pin hole in the next notch on the castle nut<sub>(g)</sub>.
  - Re-check the end-play again and correct as needed.
- Tap the roll pin<sub>(10)</sub> into the ground roller shaft hole until centered.
- Fill the insert to the brim with synthetic SAE 75-90W oil.
  - 7-8oz of oil should have been used at this point.
- Thread a cap screw into EACH of the cap screw hole<sub>(11)</sub> locations to force out any oil that may be in there.

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## MAINTENANCE



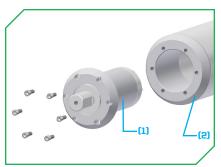


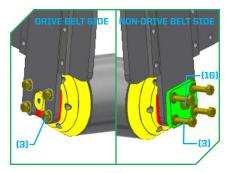




#### **Bearing Maintenance:**

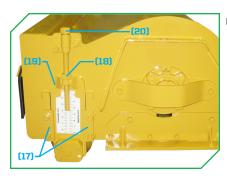
- Clean any oil or debris off the surface of the insert where the end cap will mate<sub>(4)</sub>.
- Remove the cap screws.
  - NOTE: Failure to remove excess oil from the holes may result in a cracked insert when the end cap is secured to the insert.
- Place the end cap upside down on the work surface and clean any oil or debris off of the grooved surface where the insert will mate to<sub>[4]</sub>.
  - Place a dot of RTV silicone sealant<sub>(12)</sub> on the groove between each hole.
  - Place the O-ring<sub>(13)</sub> into the groove on the end cap.
- Place the end cap onto the ground insert without dislodging the O-ring from its groove<sub>(14)</sub>.
- Secure the end cap to the insert with the cap screws<sub>nut</sub>.
  - Tighten the cap screws evenly in a criss-cross pattern.
  - Torque the cap screws to 29ft-lhs (39Nm).
  - Make sure the plug hole is not blocked to allow air to escape.
- Wrap the 1/8" NPT plug<sub>(15)</sub> with teflon tape and thread it into the plug hole on the end cap.
  - Tighten until snug.





#### **Bearing Maintenance:**

- Reassemble the bearings<sub>(1)</sub> into the ground roller<sub>(2)</sub> with their cap screws.
  - Torque the hardware to 51ft-lbs (69Nm).
- Reassemble the ground roller<sub>(2)</sub> with its hardware to the flail.
  - Use loctite 262 with primer 7649 on the (4) bolts<sub>(3)</sub> for the drive belt side.
  - Torque the (4) bolts<sub>(3)</sub> on the drive belt side to 75ft-lbs (102Nm).
  - Use loctite 243 on the center bolt<sub>net</sub> for the non-drive belt side.
  - Use loctite 262 with primer 7649 on the (4) outer bolts<sub>(3)</sub> for the non-drive belt side.
  - Torque all (5) bolts<sub>(3)(16)</sub> on the non-drive belt side to 75ft-lbs (102Nm).



## **Cutting Height Adjustment:**

- Loosen the retaining plates<sub>(17)</sub> and lock nuts<sub>(18)</sub> on both sides of the flail.
- Adjust the ground roller brackets<sub>(19)</sub> up or down by turning the adjustment nuts<sub>(20)</sub>.
- Tighten the lock nuts<sub>(18)</sub> and retaining plate<sub>(17)</sub> hardware.
  - Torque the hardware to 75ft-lhs (102Nm).

## MAINTENANCE





#### HYDRAULIC HOSES & FITTINGS

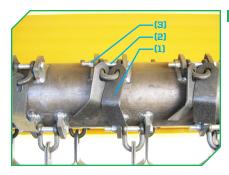
 Hydraulic hoses and fittings should be inspected every 10 hours or daily.

#### What to look for:

- Hydraulic fitting clamps and threaded connections for any hydraulic fluid.
  - If any leaks are observed, stop immediately to prevent damage to your machine.
- Hoses for any abrasions or cuts.
   Replace damaged or worn hoses.
- Attach hose wrap around critical points where hoses are likely pinched or rubbed.

## **CAUTION**

DO NOT check for hydraulic leaks with your hands or any part of your body. Use a heavy piece of paper or cardboard to check areas that are not readily visible. Pressurized hydraulic fluid can penetrate the skin and lead to serious health risks.



#### KNIVES

- Inspect the flail knives<sub>(1)</sub> for excessive wear or damage every 10 hours or daily.
  - Replace as needed.
  - Replace knives<sub>(1)</sub> in pairs opposite of each other to maintain balance of the cutting shaft.
- Inspect the knife mounting bolts<sub>(2)</sub> and nylock nuts<sub>(3)</sub> for damage every 10 hours or daily.
  - Replace damaged components as needed.
  - Tighten nylock nuts<sub>(3)</sub> snug against the cutting shaft brackets.
    - NOTE: Knife bolts<sub>(2)</sub> and nuts<sub>(3)</sub>
      must be reassembled in the
      same orientation as they
      came from the factory.

## **NOTICE**

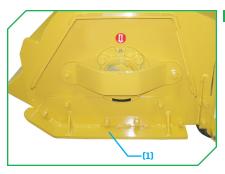
Do not attempt to weld, or otherwise repair a damaged or worn flail knife. Replace knives evenly around the cutting shaft.



#### **SHATTER RESISTANT ENCLOSURE**

- REQUIRED! Debris can be thrown unexpectedly in any direction.
   Do not attempt to use this unit without proper protection.
- Clean only with mild soap and water using a sponge or soft cloth.
- Inspect every 10 hours or daily.
   Replace as needed.

## **MAINTENANCE**



## SKID SHOES

- Inspect the skid shoes<sub>(1)</sub> for excessive wear or damage every 50 hours or weekly.
  - Replace as needed.

## NOTICE

Failure to inspect and replace hardware at recommended intervals will cause damage to the machine and attachment.

## **TROUBLESHOOTING**

| PROBLEM                | POTENTIAL CAUSE   | SOLUTION   |
|------------------------|---|--|
|                        | Loose hardware  | Check and torque all hardware.   |
|                        | Cutting assembly<br>unbalanced and/or<br>is damaged   | Check for damaged knives, cutting shaft, etc. Check for wire & other debris entangled in the the cutting assembly.   |
|                        | Vegetation buildup  | Disengage mower and back up. Shut down the mower and clear it manually.  DO NOT use extremities to remove debris.  |
| Excessive<br>Vibration | Skid-steer / compact track loader is operating on standard flow hydraulics  | Operate skid-steer / compact track loader on high flow hydraulics.   |
|                        | Loose belt(s)   | Belt is stretched or badly worn; replace as needed. Flail mowers are equipped with automatic self-tensioners; call Diamond Mowers for assistance.  |
|                        | Misaligned pulleys  | Correct pulley alignment.  |
| PROBLEM                | POTENTIAL CAUSE   | SOLUTION   |
|                        | No hydraulic oil flow<br>to the mower   | Verify hydraulic hoses are installed correctly. Verify skid-steer / compact track loader high flow hydraulics are engaged.   |
| Mower Will Not         | skid-steer / compact<br>track loader<br>hydraulic oil fluid<br>level low  | Check and add hydraulic oil per the skid-steer / compact track loader operator's manual.   |
| Start or Run           | skid-steer / compact<br>track loader<br>hydraulic system<br>does not match the<br>mower's hydraulic<br>requirements | Verify the skid-steer / compact track loader hydraulic system matches the mower's hydraulic requirements. Verify hydraulic hoses are installed correctly. Verify skid-steer / compact track loader high flow hydraulics are engaged. |

## **TROUBLESHOOTING**

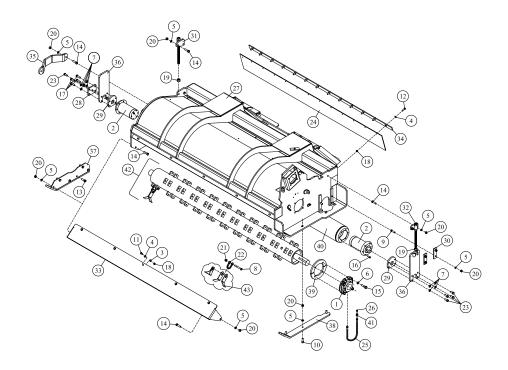
| PROBLEM                                | POTENTIAL CAUSE  | SOLUTION   |
|--|--|--|
|  | Motor failure/<br>excessive wear on<br>internal parts                      | Disasemble and repair.<br>Contact Diamond Mowers<br>for replacement.   |
| Motor Runs, but                        | Vegetation buildup   | Disengage mower and back up. Shut down the mower and clear it manually.  DO NOT use extremities to remove debris.      |
| Will Not Cut                           | Broken belt  | Belt is broken; replace. Flail mowers are equipped with automatic self-tensioners; call Diamond Mowers for assistance. |
|  | Hydraulic hoses are reversed   | Verify hydraulic hoses are installed correctly. Verify skid-steer high flow hydraulics are engaged.                    |
| PROBLEM                                | POTENTIAL CAUSE  | SOLUTION   |
| Motor/Cutting                          | Skid-steer / compact track loader is operating on standard flow hydraulics | Operate skid-steer / compact track loader on high flow hydraulics.   |
| Shaft Turns<br>Slowly or Not at<br>All | skid-steer / compact<br>track loader<br>hydraulic oil fluid<br>level low   | Check and add hydraulic oil per the skid-steer / compact track loader operator's manual.                               |
|  | Motor failure/<br>excessive wear on<br>internal parts                      | Disasemble and repair.<br>Contact Diamond Mowers<br>for replacement.   |

For any questions, contact our Warranty / Service team at 888.960.0364 or 605.977.3300

# **PARTS BOOK**

## 75"(1905MM) CUTTER ASSEMBLY

25-1362



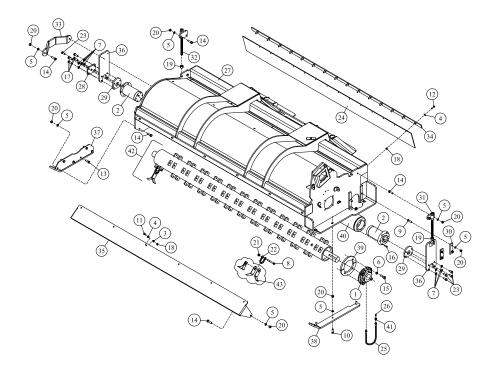
| REF# | PARTS DESCRIPTION                 | REQ | PART#   |
|------|-----------------------------------|-----|---------|
| 1    | CUTTERSHAFT BEARING               | 2   | 10-0006 |
| 2    | OIL BATH REPLACEMENT BEARING      | 2   | 10-1067 |
| 3    | 3/8 LOCK WASHER                   | 5   | 11-0005 |
| 4    | 3/8 FLAT WASHER                   | 18  | 11-0009 |
| 5    | 1/2 LOCK WASHER                   | 24  | 11-0011 |
| 6    | 1/2 H.S. LOCK WASHER              | 8   | 11-0036 |
| 7    | 1/2 SAE FLAT WASHER GR 8          | 9   | 11-0042 |
| 8    | KNIFE MOUNTING BOLT               | 40  | 11-0506 |
| 9    | 1/2 X 2 NC PLOW BOLT              | 8   | 11-0515 |
| 10   | 1/2 X 1-3/4 NC PLOW BOLT          | 3   | 11-0530 |
| 11   | 3/8 X 1 NC HEX CAPSCREW           | 5   | 11-0532 |
| 12   | 3/8 X 1-1/4 NC HEX CAPSCREW       | 13  | 11-0533 |
| 13   | 1/2 X 1-1/2 NC HEX CAPSCREW       | 5   | 11-0534 |
| 14   | 1/2 X 1-3/4 NC HEX CAPSCREW       | 8   | 11-0535 |
| 15   | 1/2 X 2 H.S. NF HEX CAPSCREW      | 8   | 11-0633 |
| 16   | 3/8 X 1 H.S. NC SKT HEAD          | 12  | 11-0752 |
| 17   | 1/2-13 X 1-1/2 GR 8 HEX CAP SCREW | 4   | 11-0972 |
| 18   | 3/8 NC HEX NUT                    | 18  | 11-1001 |
| 19   | 3/4 - 6 ACME HEX NUT              | 2   | 11-1012 |
| 20   | 1/2 NC HEX NUT                    | 24  | 11-1016 |
| 21   | 7/16 NYLOCK JAM NUT               | 40  | 11-1146 |
| 22   | CLEVIS                            | 40  | 11-1501 |
| 23   | 1/2-13 X 1-1/8 GR 8 HEX CAP SCREW | 5   | 11-2154 |
| 24   | 75" FLAP                          | 1   | 18-0011 |
| 25   | GREASE ZERK HOSE                  | 1   | 21-0002 |

| REF# | PARTS DESCRIPTION                             | REQ  | PART#   |
|------|---|------|---------|
|      |   |      |         |
| 26   | 1/8" GREASE ZERK                              | 2    | 23-0003 |
| 27   | 75" SKID STEER FLAIL BONNET                   | 1    | 25-0131 |
| 28   | GROUND ROLLER MOUNT PLATE                     | 1    | 31-0755 |
| 29   | GROUND ROLLER BOLT PLATE INTERIM              | 2    | 31-0761 |
| 30   | LOCK PLATE                                    | 4    | 41-0003 |
| 31   | ADJUSTMENT ROD OUTSIDE                        | 1    | 41-0005 |
| 32   | ADJUSTMENT ROD INSIDE                         | 1    | 41-0006 |
| 33   | 75" TRASH GUARD                               | 1    | 41-0036 |
| 34   | 75" FLAP BAR                                  | 1    | 41-0068 |
| 35   | CUTTERSHAFT GUARD                             | 1    | 41-0097 |
| 36   | ADJUSTMENT BRKT W-O TAPPED HOLES              | 2    | 41-1774 |
| 37   | OUTER SKID SHOE                               | 1    | 42-0010 |
| 38   | INNER SKID SHOE                               | 1    | 42-0013 |
| 39   | BEARING GUARD                                 | 4    | 46-0018 |
| 40   | 75" GROUND ROLLER                             | 1    | 46-0051 |
| 41   | 1/8" BRASS COUPLER                            | 1    | 9996    |
| 42   | ****CUTTER SHAFTS COMPLETE****                |      |         |
|      | 75" CUTTER SHAFT, SMOOTH CUT KNIVES           | Opt. | 46-1018 |
|      | 75" CUTTER SHAFT, 3/16" HD KNIVES             | 1    | 46-1010 |
| 43   | ****FLAIL KNIVES****                          |      |         |
|      | SMOOTH CUT FLAIL KNIFE                        | 40   | 22-1006 |
|      | 3/6" HD FLAIL KNIFE                           | 80   | 22-1016 |
| 44   | BLADE KITS                                    |      |         |
|      | Includes 11-0506, 11-1146, & 22-1006 (smooth) | 1    | 44-0263 |
|      | Includes 11-0506, 11-1146, & 22-1016 (HD)     | 1    | 44-0242 |

Assy: 25-1362

## 90"(2286MM) CUTTER ASSEMBLY

#### 25-1298



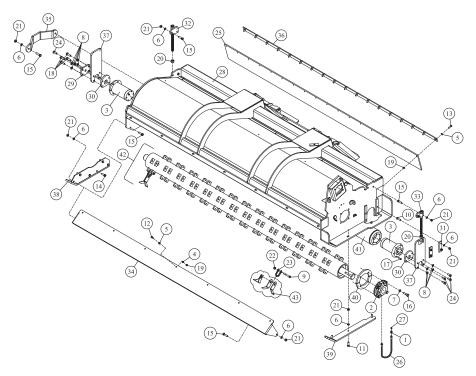
| REF# | PARTS DESCRIPTION                | REQ | PART#   |
|------|----------------------------------|-----|---------|
| - 1  | CUTTERSHAFT BEARING              | 2.  | 10-0006 |
| 2    | OIL BATH REPLACEMENT BEARING     | 2   | 10-1067 |
| 3    | 3/8 LOCK WASHER                  | 6   | 11-0005 |
| 4    | 3/8 FLAT WASHER                  | 21  | 11-0009 |
| 5    | 1/2 LOCK WASHER                  | 24  | 11-0011 |
| 6    | 1/2 H.S. LOCK WASHER             | 8   | 11-0036 |
| 7    | 1/2 SAE FLAT WASHER GR 8         | 9   | 11-0042 |
| 8    | KNIFE MOUNTING BOLT              | 48  | 11-0506 |
| 9    | 1/2 X 2 NC PLOW BOLT             | 8   | 11-0515 |
| 10   | 1/2 X 1-3/4 NC PLOW BOLT         | 3   | 11-0530 |
| 11   | 3/8 X 1 NC HEX CAPSCREW          | 6   | 11-0532 |
| 12   | 3/8 X 1-1/4 NC HEX CAPSCREW      | 15  | 11-0533 |
| 13   | 1/2 X 1-1/2 NC HEX CAPSCREW      | 5   | 11-0534 |
| 14   | 1/2 X 1-3/4 NC HEX CAPSCREW      | 8   | 11-0535 |
| 15   | 1/2 X 2 H.S. NF HEX CAPSCREW     | 8   | 11-0633 |
| 16   | 3/8 X 1 H.S. NC SKT HEAD         | 12  | 11-0752 |
| 17   | 1/2-13 X 1-1/2 GR 8 HEX CAPSCREW | 4   | 11-0972 |
| 18   | 3/8 NC HEX NUT                   | 21  | 11-1001 |
| 19   | 3/4 - 6 ACME HEX NUT             | 2   | 11-1012 |
| 20   | 1/2 NC HEX NUT                   | 24  | 11-1016 |
| 21   | 7/16 NYLOCK JAM NUT              | 48  | 11-1146 |
| 22   | CLEVIS                           | 48  | 11-1501 |
| 23   | 1/2-13 X 1-1/8 GR 8 HEX CAPSCREW | 5   | 11-2154 |
| 24   | 90" FLAP                         | 1   | 18-0014 |
| 25   | GREASE ZERK HOSE                 | 1   | 21-0002 |

| REF# | PARTS DESCRIPTION                             | REQ  | PART#   |
|------|---|------|---------|
|      |   |      |         |
| 26   | 1/8" GREASE ZERK                              | 2    | 23-0003 |
| 27   | 90" SKID LOADER FLAIL BONNET                  | 1    | 25-0126 |
| 28   | GROUND ROLLER MOUNT PLATE                     | 1    | 31-0755 |
| 29   | GROUND ROLLER BOLT PLATE INTERIM              | 2    | 31-0761 |
| 30   | LOCK PLATE                                    | 4    | 41-0003 |
| 31   | ADJUSTMENT ROD INSIDE                         | 1    | 41-0005 |
| 32   | ADJUSTMENT ROD OUTSIDE                        | 1    | 41-0006 |
| 33   | CUTTERSHAFT GUARD                             | 1    | 41-0097 |
| 34   | 90" FLAP BAR                                  | 1    | 41-0185 |
| 35   | 90" TRASH GUARD                               | 1    | 41-0190 |
| 36   | ADJUSTMENT BRKT W-O TAPPED HOLES              | 2    | 41-1774 |
| 37   | OUTER SKID SHOE                               | 1    | 42-0010 |
| 38   | INNER SKID SHOE                               | 1    | 42-0013 |
| 39   | BEARING GUARD                                 | 4    | 46-0018 |
| 40   | 90" GROUND ROLLER                             | 1    | 46-0049 |
| 41   | 1/8" BRASS COUPLER                            | 1    | 9996    |
| 42   | ****CUTTER SHAFTS COMPLETE****                |      |         |
|      | 90" CUTTER SHAFT, SMOOTH CUT KNIVES           | Opt. | 46-1013 |
|      | 90" CUTTER SHAFT, 3/16" HD KNIVES             | 1    | 46-1011 |
| 43   | ****FLAIL KNIVES****                          |      |         |
|      | SMOOTH CUT FLAIL KNIFE                        | 48   | 22-1006 |
|      | 3/6" HD FLAIL KNIFE                           | 96   | 22-1016 |
| 44   | BLADEKITS                                     |      |         |
|      | Includes 11-0506, 11-1146, & 22-1006 (smooth) | 1    | 44-0260 |
|      | Includes 11-0506, 11-1146, & 22-1016 (HD)     | 1    | 44-0243 |

Assy: 25-1298

## 102"(2591MM) CUTTER ASSEMBLY

25-1603



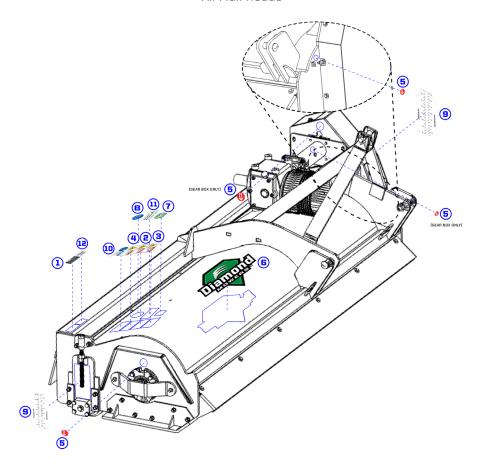
| REF# | PARTS DESCRIPTION                | REQ | PART#   |
|------|----------------------------------|-----|---------|
|      |                                  |     |         |
| 1    | 1/8" BRASS COUPLER               | 1   | 9996    |
| 2    | CUTTERSHAFT BEARING              | 2   | 10-0006 |
| 3    | OIL BATH REPLACEMENT BEARING     | 2   | 10-1067 |
| 4    | 3/8 LOCK WASHER                  | 7   | 11-0005 |
| 5    | 3/8 FLAT WASHER                  | 25  | 11-0009 |
| 6    | 1/2 LOCK WASHER                  | 24  | 11-0011 |
| 7    | 1/2 H.S. LOCK WASHER             | 8   | 11-0036 |
| 8    | 1/2 SAE FLAT WASHER GR 8         | 9   | 11-0042 |
| 9    | KNIFE MOUNTING BOLT              | 56  | 11-0506 |
| 10   | 1/2 X 2 NC PLOW BOLT             | 8   | 11-0515 |
| 11   | 1/2 X 1-3/4 NC PLOW BOLT         | 3   | 11-0530 |
| 12   | 3/8 X 1 NC HEX CAPSCREW          | 7   | 11-0532 |
| 13   | 3/8 X 1-1/4 NC HEX CAPSCREW      | 18  | 11-0533 |
| 14   | 1/2 X 1-1/2 NC HEX CAPSCREW      | 5   | 11-0534 |
| 15   | 1/2 X 1-3/4 NC HEX CAPSCREW      | 8   | 11-0535 |
| 16   | 1/2 X 2 H.S. NF HEX CAPSCREW     | 8   | 11-0633 |
| 17   | 3/8 X 1 H.S. NC SKT HEAD         | 12  | 11-0752 |
| 18   | 1/2-13 X 1-1/2 GR 8 HEX CAPSCREW | 4   | 11-0972 |
| 19   | 3/8 NC HEX NUT                   | 25  | 11-1001 |
| 20   | 3/4 - 6 ACME HEX NUT             | 2   | 11-1012 |
| 21   | 1/2 NC HEX NUT                   | 24  | 11-1016 |
| 22   | 7/16 NYLOCK JAM NUT              | 56  | 11-1146 |
| 23   | CLEVIS                           | 56  | 11-1501 |
| 24   | 1/2-13 X 1-1/8 GR 8 HEX CAPSCREW | 5   | 11-2154 |
| 25   | 102" FLAP                        | 1   | 18-0012 |

| REF# | PARTS DESCRIPTION                             | REQ  | PART#   |
|------|---|------|---------|
|      |   |      |         |
| 26   | GREASE ZERK HOSE                              | 1    | 21-0002 |
| 27   | 1/8" GREASE ZERK                              | 2    | 23-0003 |
| 28   | 102" SKID LOADER FLAIL BONNET                 | 1    | 25-0199 |
| 29   | GROUND ROLLER MOUNT PLATE                     | 1    | 31-0755 |
| 30   | GROUND ROLLER BOLT PLATE INTERIM              | 2    | 31-0761 |
| 31   | LOCK PLATE                                    | 4    | 41-0003 |
| 32   | ADJUSTMENT ROD RIGHT                          | 1    | 41-0005 |
| 33   | ADJUSTMENT ROD LEFT                           | 1    | 41-0006 |
| 34   | 102" TRASH GUARD                              | 1    | 41-0031 |
| 35   | CUTTERSHAFT GUARD                             | 1    | 41-0097 |
| 36   | 102" FLAP BAR                                 | 1    | 41-0127 |
| 37   | ADJUSTMENT BRKT W-O TAPPED HOLES              | 2    | 41-1774 |
| 38   | RIGHT SKID SHOE                               | 1    | 42-0010 |
| 39   | LEFT SKID SHOE                                | 1    | 42-0013 |
| 40   | BEARING GUARD                                 | 4    | 46-0018 |
| 41   | 102" GROUND ROLLER                            | 1    | 46-0052 |
| 42   | ****CUTTER SHAFTS COMPLETE****                |      |         |
|      | 102" CUTTER SHAFT, SMOOTH CUT KNIVES          | Opt. | 46-1014 |
|      | 102" CUTTER SHAFT, 3/16" HD KNIVES            | 1    | 46-1016 |
| 43   | ****FLAIL KNIVES****                          |      |         |
|      | SMOOTH CUT FLAIL KNIFE                        | 56   | 22-1006 |
|      | 3/16" HD FLAIL KNIFE                          | 112  | 22-1016 |
| 44   | BLADE KITS                                    |      |         |
|      | Includes 11-0506, 11-1146, & 22-1016 (HD)     | 1    | 44-0261 |
|      | Includes 11-0506, 11-1146, & 22-1006 (smooth) | 1    | 44-0244 |

Assy: 25-1603 DLF102 cutter

#### **DECAL IDENTIFICATION**

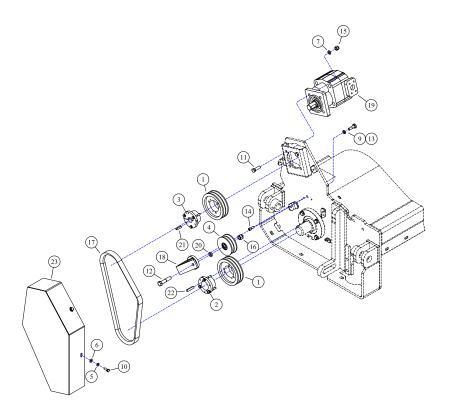
#### All Flail Heads



- 1 SERIAL NUMBER LABEL (not included in kit) QTY 1
- 2 PART #15-0001 Sharp Objects Danger QTY 1
- 3 PART #15-0002 Flying Objects Danger QTY 1
- 4 PART #15-0003 Belt Cover Warning QTY 1
- 5 PART #15-0005 Grease Here QTY 4
- **6** PART #15-0054 Diamond Logo 15" QTY 1
- 7 PART #15-0055 Made In USA QTY 1
- B PART #15-0058 Read Manual QTY 1
- 9 PART #15-1001 Ruler QTY 2
- 10 PART #15-1003 Hand Grease Gun Only QTY 1
- 11 PART #15-1016 Warranty QTY 1
- (2) PART #15-0067 Patent Pending QTY 1

### **DRIVE ASSEMBLY**

### All Flail Heads

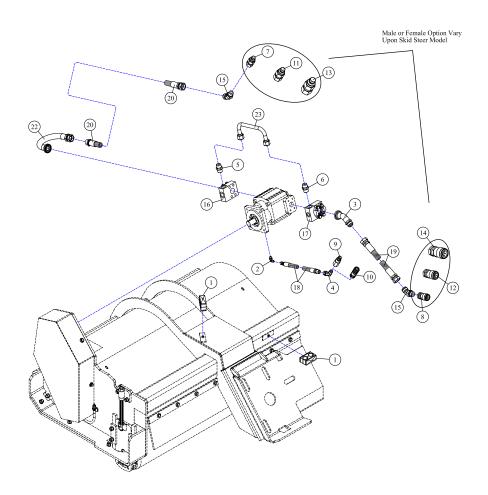


| REF# | PARTS DESCRIPTION           | REQ | PART#   |
|------|-----------------------------|-----|---------|
|      |                             |     |         |
| 1    | SHEAVE 6.3                  | 2   | 10-1007 |
| 2    | 2-3/16" TAPERLOCK BUSHING   | 1   | 10-1012 |
| 3    | 1-1/4" TAPERLOCK BUSHING    | 1   | 10-1014 |
| 4    | SHEAVE IDLER ASSEMBLY 4.4   | 1   | 10-1016 |
| 5    | 3/8 LOCK WASHER GR 5        | 4   | 11-0005 |
| 6    | 3/8 FLAT WASHER GR 5        | 4   | 11-0009 |
| 7    | 1/2 LOCK WASHER GR 5        | 4   | 11-0011 |
| 8    | 5/8 SAE FLAT WASHER GR 8    | 1   | 11-0012 |
| 9    | 12MM LOCK WASHER GR 10.9    | 1   | 11-0031 |
| 10   | 3/8 X 1 NC HEX CAPSCREW     | 4   | 11-0532 |
| 11   | 1/2 X 1-3/4 NC HEX CAPSCREW | 4   | 11-0535 |
| 12   | 5/8 X 3 NC HEX CAPSCREW     | 1   | 11-0558 |

| REF# | PARTS DESCRIPTION               | REQ | PART   |
|------|---------------------------------|-----|--------|
|      |                                 |     |        |
| 13   | 12MM X 40MM X 1.75 HEX CAPSCREW | 1   | 11-067 |
| 14   | 3/8 X 1 H.S. NC SKT HEAD        | 1   | 11-075 |
| 15   | 1/2 NC NYLOCK NUT               | 4   | 11-101 |
| 16   | 5/8 NC NYLOCK NUT               | 1   | 11-102 |
| 17   | DOUBLE 530 V-BELT               | 1   | 12-000 |
| 18   | ROSTA TENSIONER                 | 1   | 24-008 |
| 19   | MOTOR                           | 1   | 30-050 |
| 20   | IDLER SPACER                    | 1   | 34-003 |
| 21   | MOTOR KEY                       | 1   | 37-002 |
| 22   | CUTTERSHAFT KEY                 | 1   | 37-002 |
| 23   | BELT GUARD                      | 1   | 41-043 |

## 75"(1905MM) & 90"(2286MM) HOSE ASSEMBLIES

25-1299

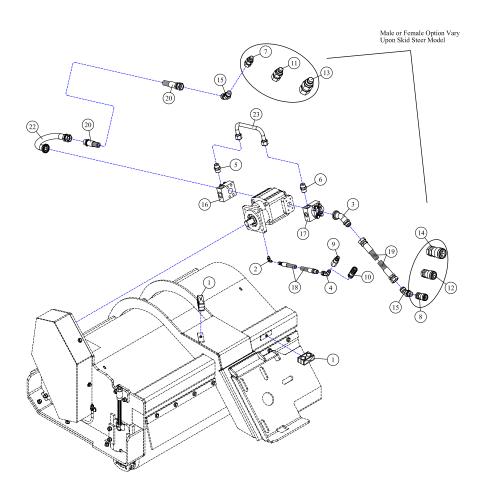


| REF# | PARTS DESCRIPTION                       | REQ | PART#   |
|------|---|-----|---------|
| 1    | HOSE CLAMP                              | 2   | 11-2008 |
| 2    | 1/4MJIC X 1/4MORB-90DEG ADAPTER         | 1   | 21-1264 |
| 3    | #20FLG X 1MJIC-45DEG A DAPTER           | 1   | 21-1268 |
| 4    | 1/2MP X 1/2FP ADAPTER 45 DEG            | 1   | 21-1290 |
| 5    | 3/4 MORB X 3/4 MJIC ADAPT W/ CHCK VALVE | 1   | 21-1474 |
| 6    | 3/4 MORB X 3/4 MJIC ADAPTER             | 1   | 21-1475 |
| 7    | 1/2 MALE QUICK COUPLER, FLAT FACE       | 1   | 21-1559 |
| 8    | 1/2 FEMALE QUICK COUPLER, FLAT FACE     | 1   | 21-1560 |
| 9    | 3/8 MALE QUICK COUPLER, FLAT FACE       | 1   | 21-1561 |
| 10   | 3/8 FEMALE QUICK COUPLER, FLAT FACE     | 1   | 21-1562 |
| 11   | 5/8 MALE QUICK COUPLER, FLAT FACE       | 1   | 21-1574 |
| 12   | 5/8 FEMALE QUICK COUPLER, FLAT FACE     | 1   | 21-1575 |

| REF# | PARTS DESCRIPTION                   | REQ     | PART#   |
|------|-------------------------------------|---------|---------|
| 13   | 3/4 MALE QUICK COUPLER, FLAT FACE   | 1       | 21-1576 |
| 14   | 3/4 FEMALE QUICK COUPLER, FLAT FACE | 1       | 21-1577 |
| 15   | ADAPTER, 1MJIC-45DEG X 3/4MORB      | 2       | 21-1654 |
| 16   | CROSS OVER MANIFOLD KIT             | 1       | 21-2180 |
| 17   | TEE MANIFOLD KIT                    | 1       | 21-2181 |
| 18   | HOSE 3/8 X 122 (1/4FJIC X 1/2MP)    | 1       | 21-4295 |
| 19   | H0SE 1 X 112 (1FЛС X 1FЛС)          | 1       | 21-5300 |
| 20   | H0SE 1 X 118 (1FЛС X 1MP)           | 1       | 21-5301 |
| 21   | HOSE SLEEVING - NOT SHOWN           | Sold/ft | 24-0142 |
| 22   | PREFORMED TUBE                      | 1       | 28-0014 |
| 23   | RUN-AROUND TUBE                     | 1       | 28-0046 |
|      |                                     |         |         |

## 102"(2591MM) HOSE ASSEMBLIES

25-1603

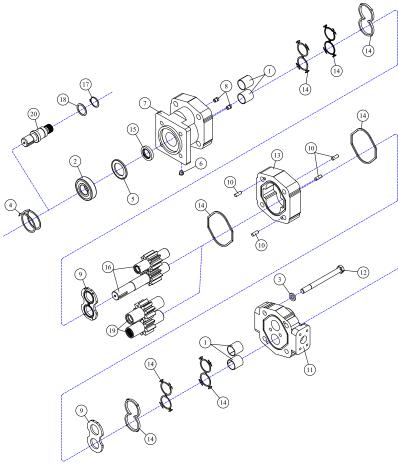


| REF# | PARTS DESCRIPTION                       | REQ | PART#   |
|------|---|-----|---------|
| 1    | HOSE CLAMP                              | 2   | 11-2008 |
| 2    | 1/4MJIC X 1/4MORB-90DEG ADAPTER         | 1   | 21-1264 |
| 3    | #20FLG X 1MJIC-45DEG A DAPTER           | 1   | 21-1268 |
| 4    | 1/2MP X 1/2FP ADAPTER 45 DEG            | 1   | 21-1290 |
| 5    | 3/4 MORB X 3/4 MJIC ADAPT W/ CHCK VALVE | 1   | 21-1474 |
| 6    | 3/4 MORB X 3/4 MJIC ADAPTER             | 1   | 21-1475 |
| 7    | 1/2 MALE QUICK COUPLER, FLAT FACE       | 1   | 21-1559 |
| 8    | 1/2 FEMALE QUICK COUPLER, FLAT FACE     | 1   | 21-1560 |
| 9    | 3/8 MALE QUICK COUPLER, FLAT FACE       | 1   | 21-1561 |
| 10   | 3/8 FEMALE QUICK COUPLER, FLAT FACE     | 1   | 21-1562 |
| 11   | 5/8 MALE QUICK COUPLER, FLAT FACE       | 1   | 21-1574 |
| 12   | 5/8 FEMALE QUICK COUPLER, FLAT FACE     | 1   | 21-1575 |
|      |   |     |         |

| REF# | PARTS DESCRIPTION                   | REQ     | PART #  |
|------|-------------------------------------|---------|---------|
| 13   | 3/4 MALE QUICK COUPLER, FLAT FACE   | 1       | 21-1576 |
| 14   | 3/4 FEMALE QUICK COUPLER, FLAT FACE | 1       | 21-1577 |
| 15   | ADAPTER, 1MJIC-45DEG X 3/4MORB      | 2       | 21-1654 |
| 16   | CROSS OVER MANIFOLD KIT             | 1       | 21-2180 |
| 17   | TEE MANIFOLD KIT                    | 1       | 21-2181 |
| 18   | HOSE 3/8 X 122 (1/4FJIC X 1/2MP)    | 1       | 21-4295 |
| 19   | H0SE 1 X 120 (1FJIC X 1FJIC)        | 1       | 21-4498 |
| 20   | H0SE 1 X 127 (1FJIC X 1MP)          | 1       | 21-2923 |
| 21   | HOSE SLEEVING - NOT SHOWN           | Sold/ft | 24-0142 |
| 22   | PREFORMED TUBE                      | 1       | 28-0014 |
| 23   | RUN-AROUND TUBE                     | 1       | 28-0046 |

## **MOTOR ASSEMBLY 30-0509**

## All Flail Assemblies



| REF# | PARTS DESCRIPTION                               | REQ | PART#   |
|------|---|-----|---------|
| 1    | BUSHING   | 4   | 30-1002 |
| 2    | BALL BEARING                                    | 1   | 30-1044 |
| 3    | WASHER  | 4   | 30-1071 |
| 4    | SPIROLOCK                                       | 1   | 30-1094 |
| 5    | RETAINING RING                                  | 1   | 30-1095 |
| 6    | PLUG  | 1   | 30-1096 |
| 7    | SHAFT END COVER                                 | 1   | 30-1097 |
| 8    | CHECK ASSEMBLY                                  | 2   | 30-1098 |
| 9    | THRUST PLATE                                    | 2   | 30-1100 |
| 10   | DOWEL PIN                                       | 4   | 30-1102 |
| 11   | PORT END COVER W/ BUSHINGS                      | 1   | 30-1137 |
| 12   | STUD  | 4   | 30-1134 |
| 13   | GEAR HOUSING 1-3/4"                             | 1   | 30-1208 |
| 14   | SEAL KIT  |     |         |
|      | SEAL KIT (integral shaft only) comes w/ 30-1162 | 1   | 30-1207 |

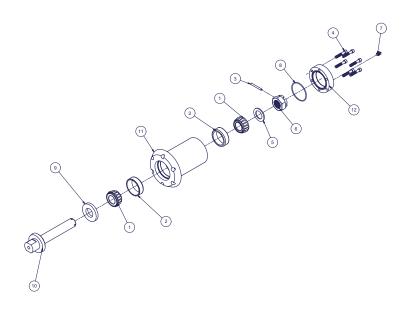
| REF# | PARTS DESCRIPTION                             | REQ | PART  |
|------|---|-----|-------|
|      |   |     |       |
|      | SEAL KIT (continental shaft only)             | 1   | 30-12 |
| 15   | SHAFT SEAL                                    |     |       |
|      | CONTINENTAL SHAFT ONLY:                       |     |       |
|      | 300 PSI (included in M350 seal kit)           | 1   | 30-12 |
|      | INTEGRAL SHAFT ONLY:                          |     |       |
|      | 500 PSI                                       | 1   | 30-10 |
| *    | SHAFT TOOL (not shown) (required for install) | 1   | 30-11 |
|      | GEAR SET OPTION A:                            |     |       |
| 16   | INTEGRAL SHAFT AND GEAR 1-3/4"                | 1   | 30-10 |
|      | GEAR SET OPTION B:                            |     |       |
| 17   | RETAINING RING                                | 1   | 30-12 |
| 18   | RETAINING WASHER                              | 1   | 30-12 |
| 19   | 2-1/4" GEAR SET                               | 1   | 30-10 |
| 20   | CONTINENTAL SHAFT, SPLINED                    | 1   | 30-13 |

Assy: 30-0509

Rev: 0

#### **GROUND ROLLER BEARING 10-1067**

All Flail Assemblies

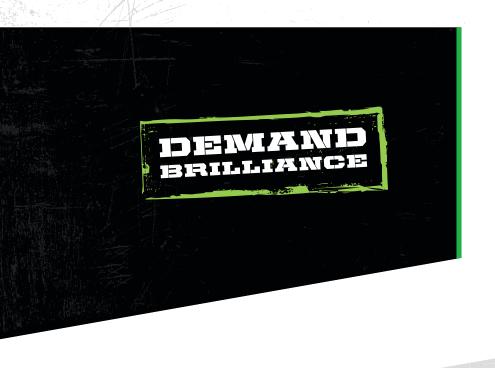


| REF# | PARTS DESCRIPTION               | REQ | PART#   | (ft-lbs) | TORQUE<br>(Nm) |
|------|---------------------------------|-----|---------|----------|----------------|
| 1    | TAPER BEARING                   | 2   | 10-1049 |          |                |
| 2    | TAPER BEARING RACE              | 2   | 10-1050 |          |                |
| 3    | ROLL PIN                        | 1   | 11-2006 |          |                |
| 4    | 5/16 X 1-3/4 NC SHCS            | 6   | 11-2065 | 28.7     | 38.9           |
| 5    | THRUST WASHER 2.00 OD X 1.26 ID | 1   | 11-2067 |          |                |
| 6    | CASTLE NUT                      | 1   | 11-2074 |          |                |
| 7    | 1/8 NPT PLUG                    | 1   | 21-1136 |          |                |
| 8    | O RING 2-7/8 OD                 | 1   | 24-0273 |          |                |
| 9    | SEAL TCM 132713TC               | 1   | 33-0031 |          |                |
| 10   | ASSY GROUND ROLLER SHAFT        | 1   | 41-1776 |          |                |
| 11   | GROUND ROLLER INSERT            | 1   | 90-7045 |          |                |
| 12   | GROUND ROLLER END CAP           | 1   | 90-7048 |          |                |

10-1067 oil bath replacement bearing assy Rev 000

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