



SERVICE BULLETIN

GROUND ROLLER BEARING

• *COLD ROLLED OIL BATH* • *DOC#15-1140* •

DIAMOND MOWERS, LLC
350 E 60th St. North
Sioux Falls, SD 57104

FOR WARRANTY CALL DIAMOND MOWERS DIRECT:
888-960-0364
OUR TECHNICIANS WILL DIAGNOSE YOUR SITUATION
OVER THE PHONE TO GET YOU UP AND RUNNING QUICKLY.

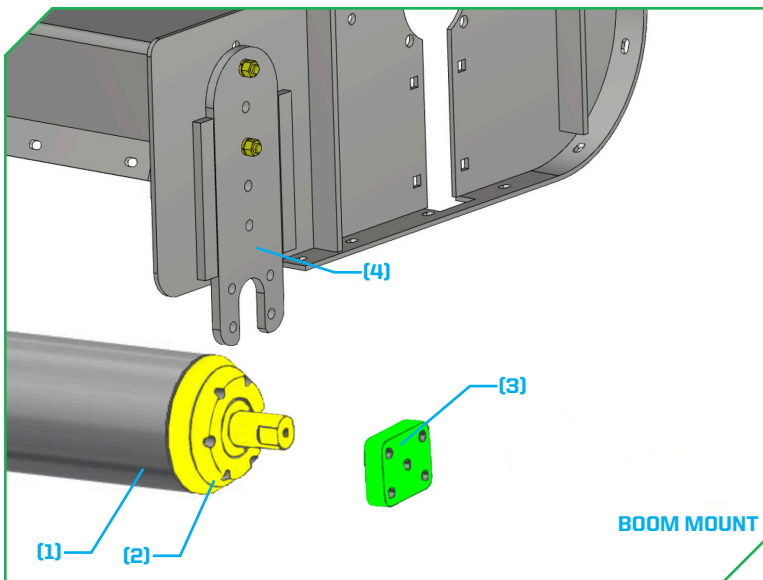
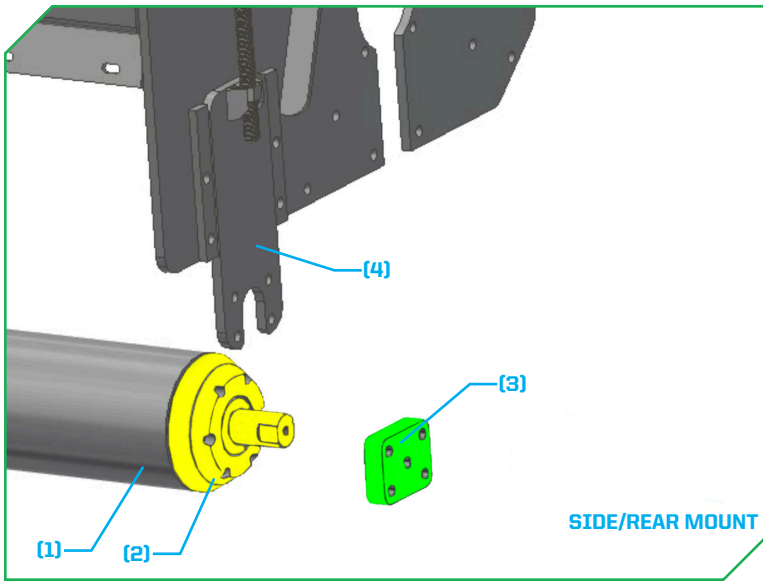
Phone: 605-977-3300
Fax: 605-655-5870
www.diamondmowers.com

DEMAND BRILLIANCE.

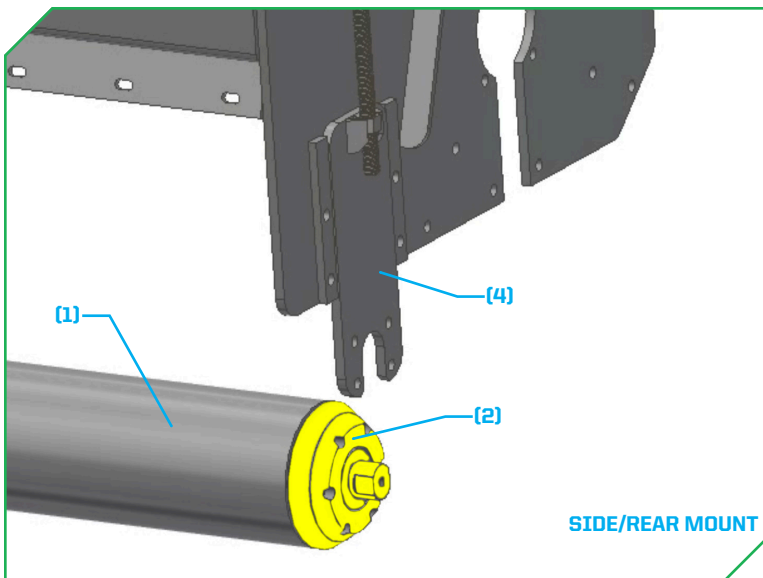
© DIAMOND MOWERS, LLC

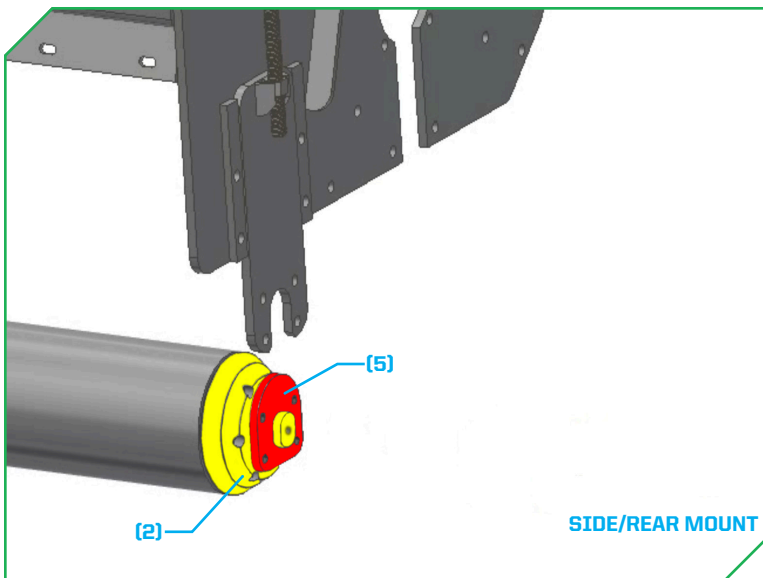
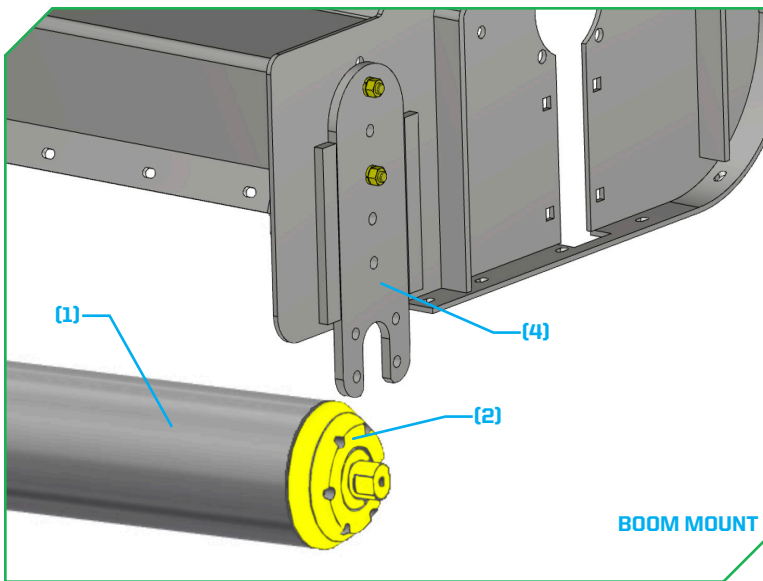
REPLACING THE ORIGINAL BEARINGS WITH COLD ROLLED OIL BATH BEARINGS

- Rest the flail ground roller ⁽¹⁾ on the ground, and remove the bearing retaining blocks ⁽³⁾ securing the ground roller ⁽¹⁾ to the ground roller brackets ⁽⁴⁾.
- Lift the flail assembly up and off of the ground roller ⁽¹⁾.
- Unbolt and remove the original ground roller bearings ⁽²⁾ from the ground roller ⁽¹⁾ for both sides.

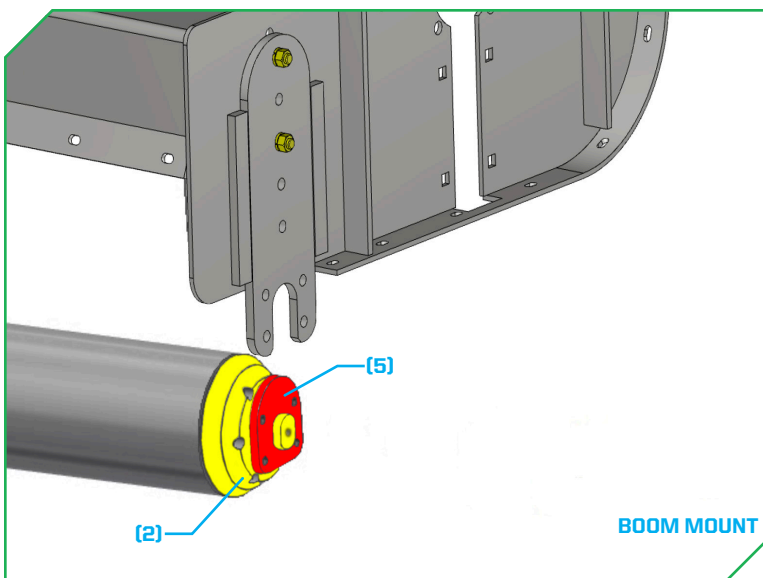


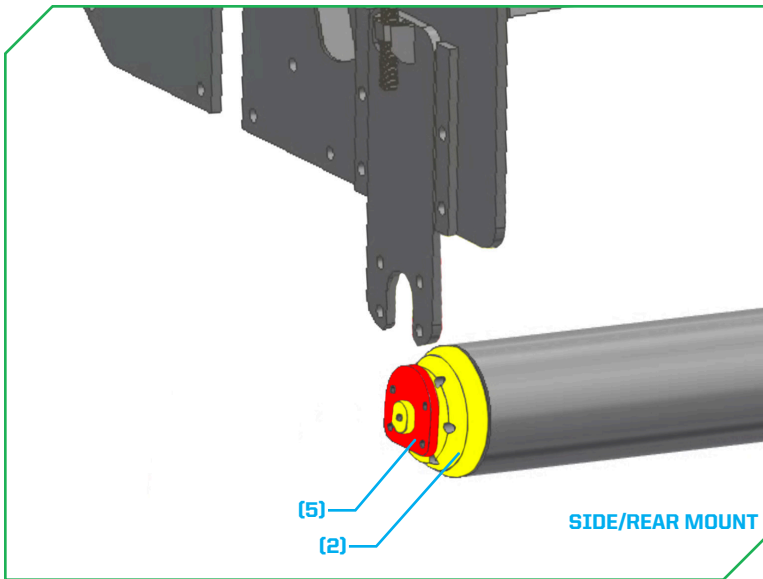
- Bolt the cold rolled ground roller bearings ⁽²⁾ into the ground roller ⁽¹⁾ and torque the hardware to 51ft-lbs (69Nm).
- Drill out the (4) mounting holes on each ground roller bracket ⁽⁴⁾ to ½" pass thru.



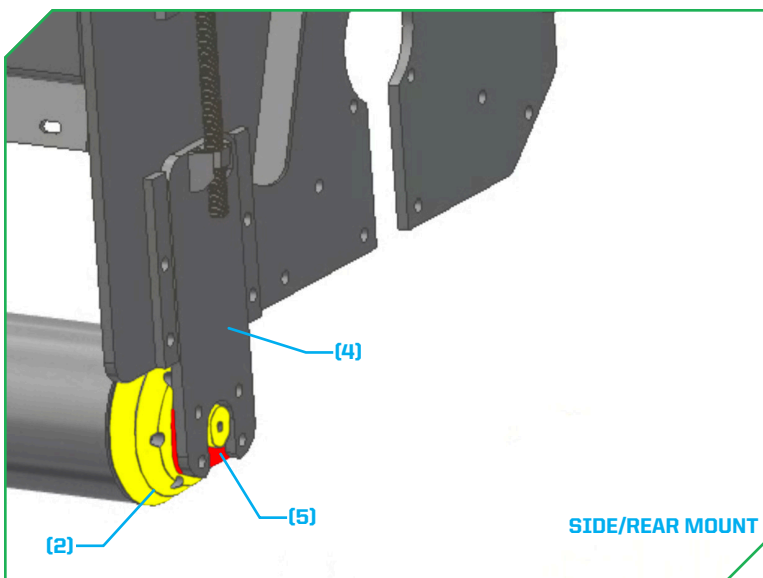
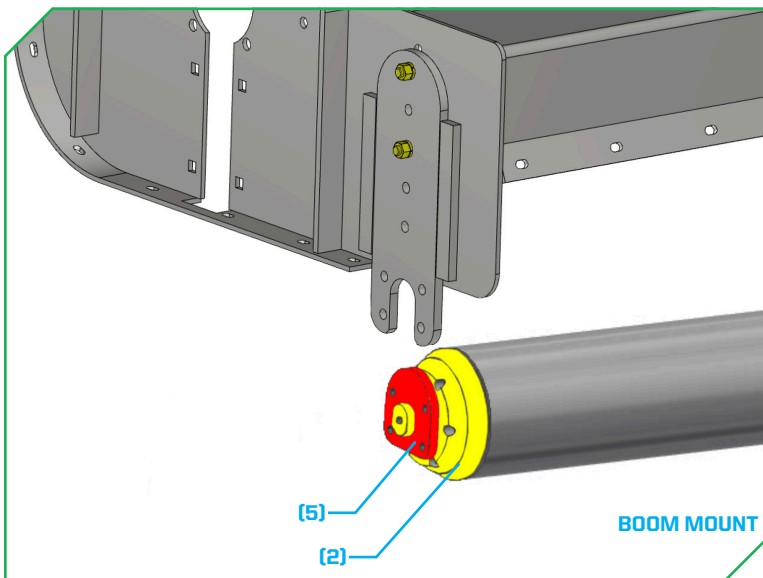


- Slide the ground roller bolt plate (5) onto the ground roller bearing shaft (2) in the orientation illustrated for the drive belt side of the flail.

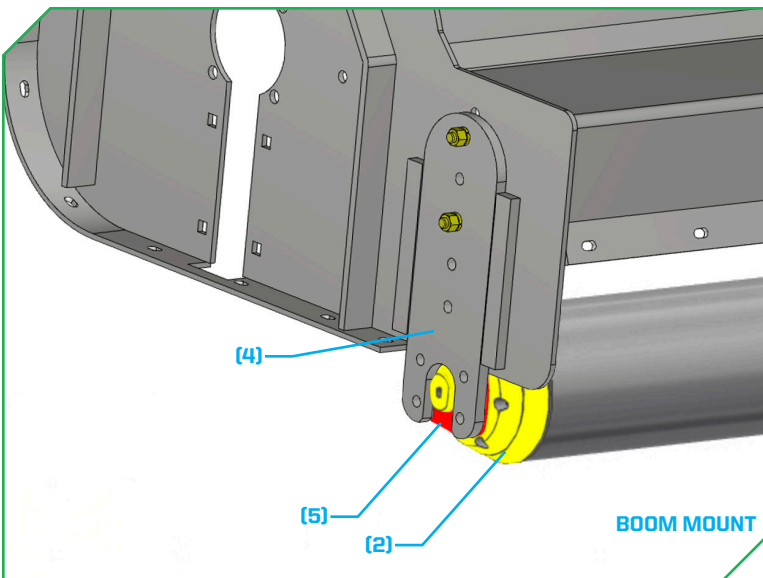
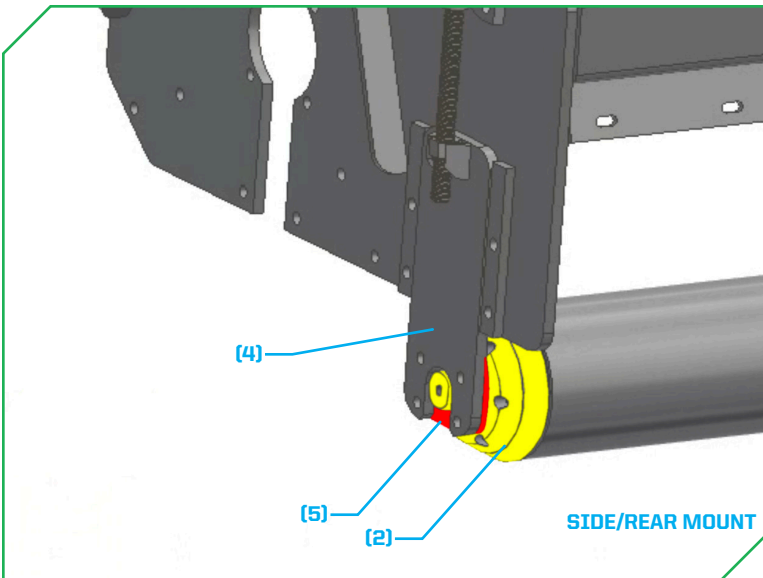
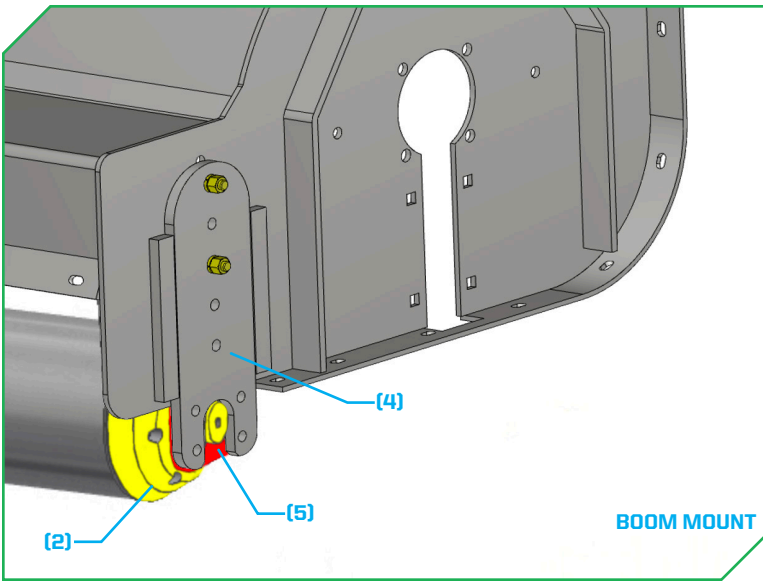


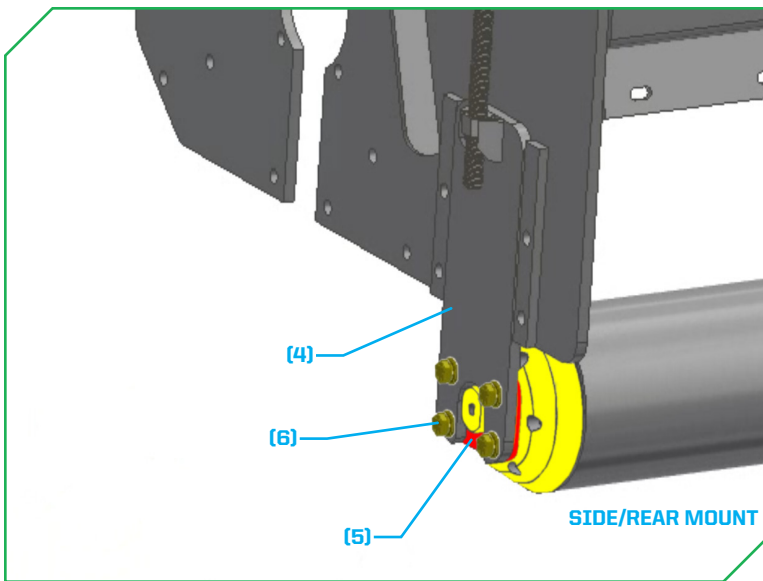


- Slide the ground roller bolt plate ⁽⁵⁾ onto the ground roller bearing shaft ⁽²⁾ in the orientation illustrated for the non-drive belt side of the flail.

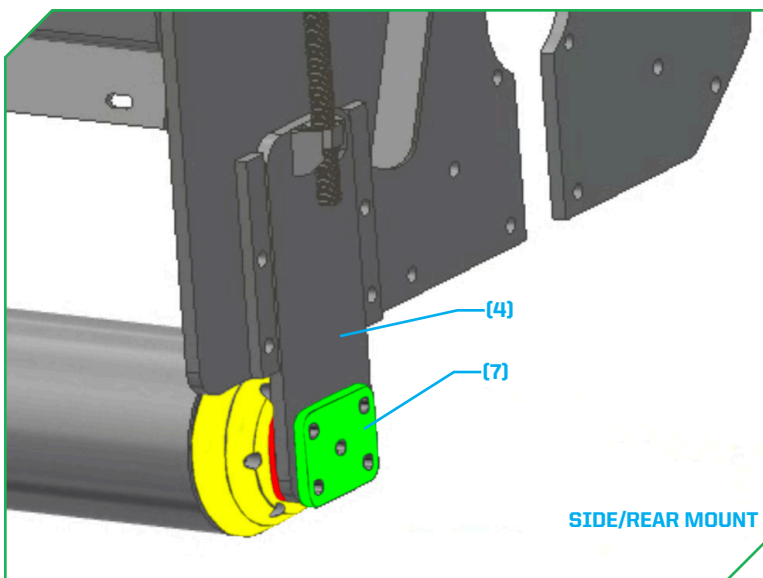
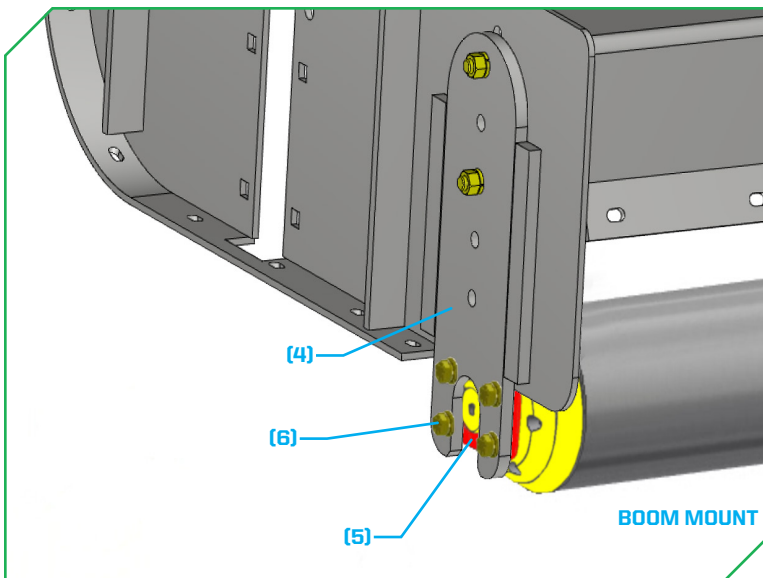


- Lower the flail unit until the ground roller bearing shafts ⁽²⁾ on both sides are fully seated into the notches on the ground roller brackets ⁽⁴⁾.
 - The ground roller bolt plates ⁽⁵⁾ should be to the inside of the ground roller brackets ⁽⁴⁾.

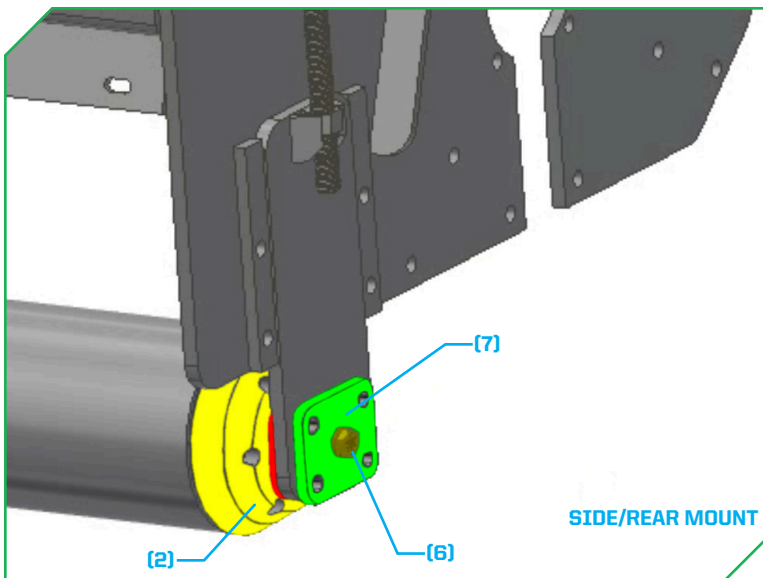
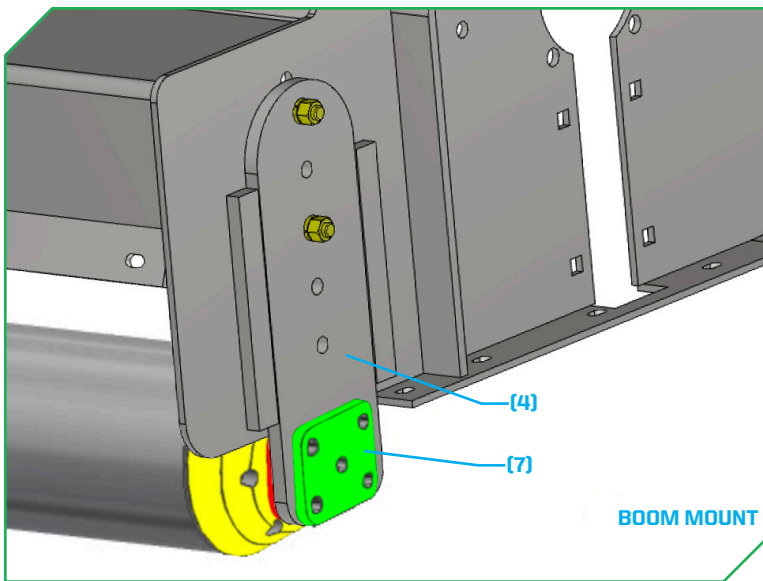




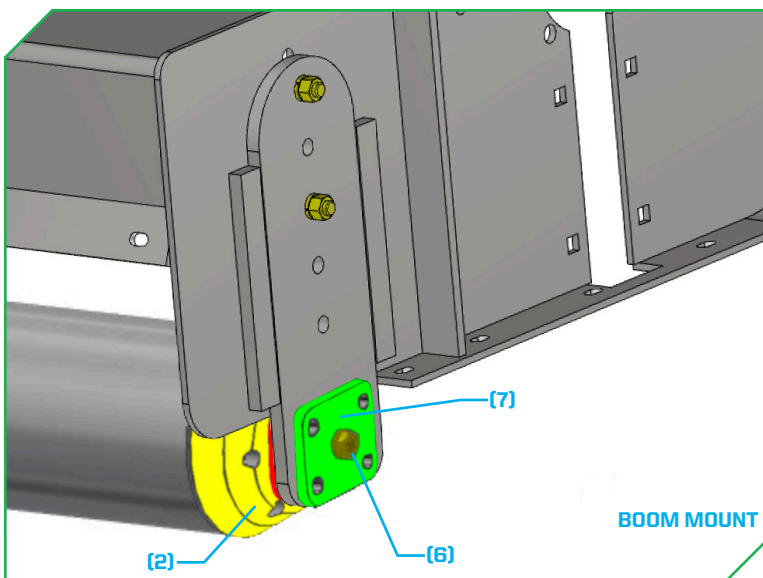
- Secure the non-drive belt side ground roller bolt plate⁽⁵⁾ to its adjacent ground roller bracket⁽⁴⁾ with the supplied hardware⁽⁶⁾.
 - Use Loctite 262 with primer 7649 on the bolt threads, and torque the hardware to 75ft-lbs (102Nm).

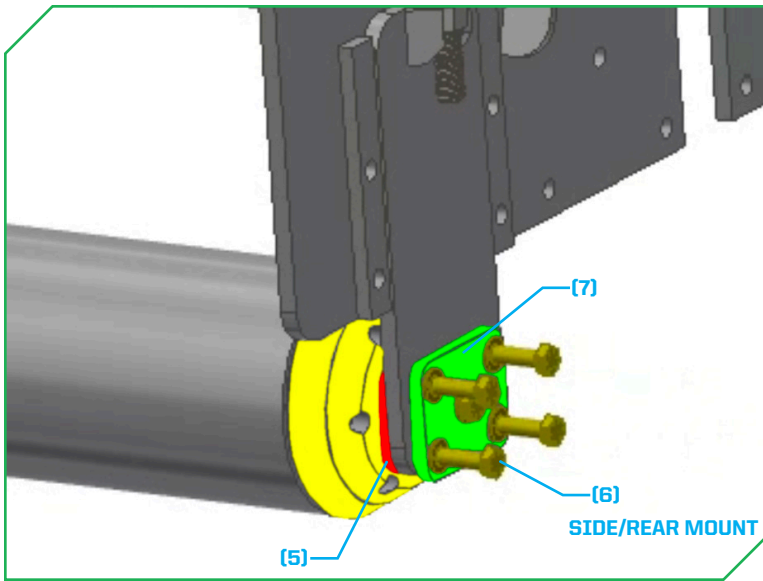


- Place the ground roller mount plate⁽⁷⁾ over the mounting holes of the ground roller bracket⁽⁴⁾ on the drive belt side of the flail.

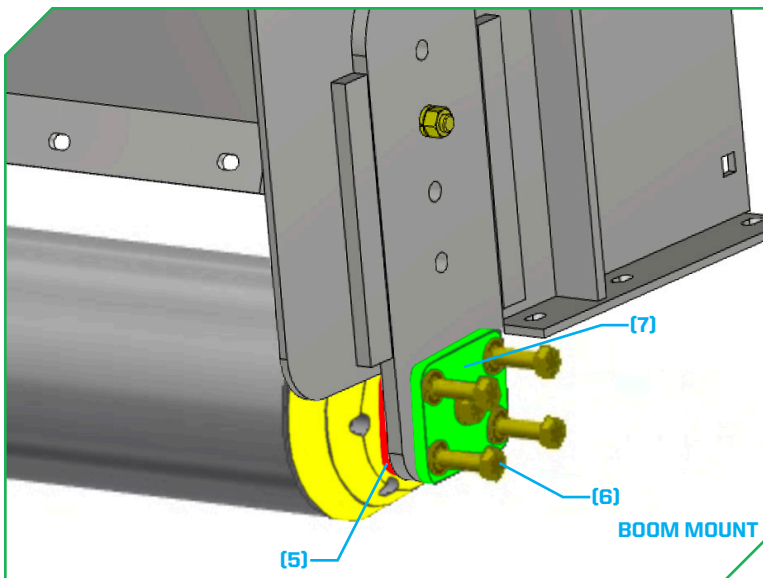


- Secure the ground roller bearing shaft (2) on the drive belt side of the flail to the ground roller mount plate (7) with the supplied hardware (6).
 - Use Loctite 243 on the bolt threads, and torque the hardware to 75ft-lbs (102Nm).

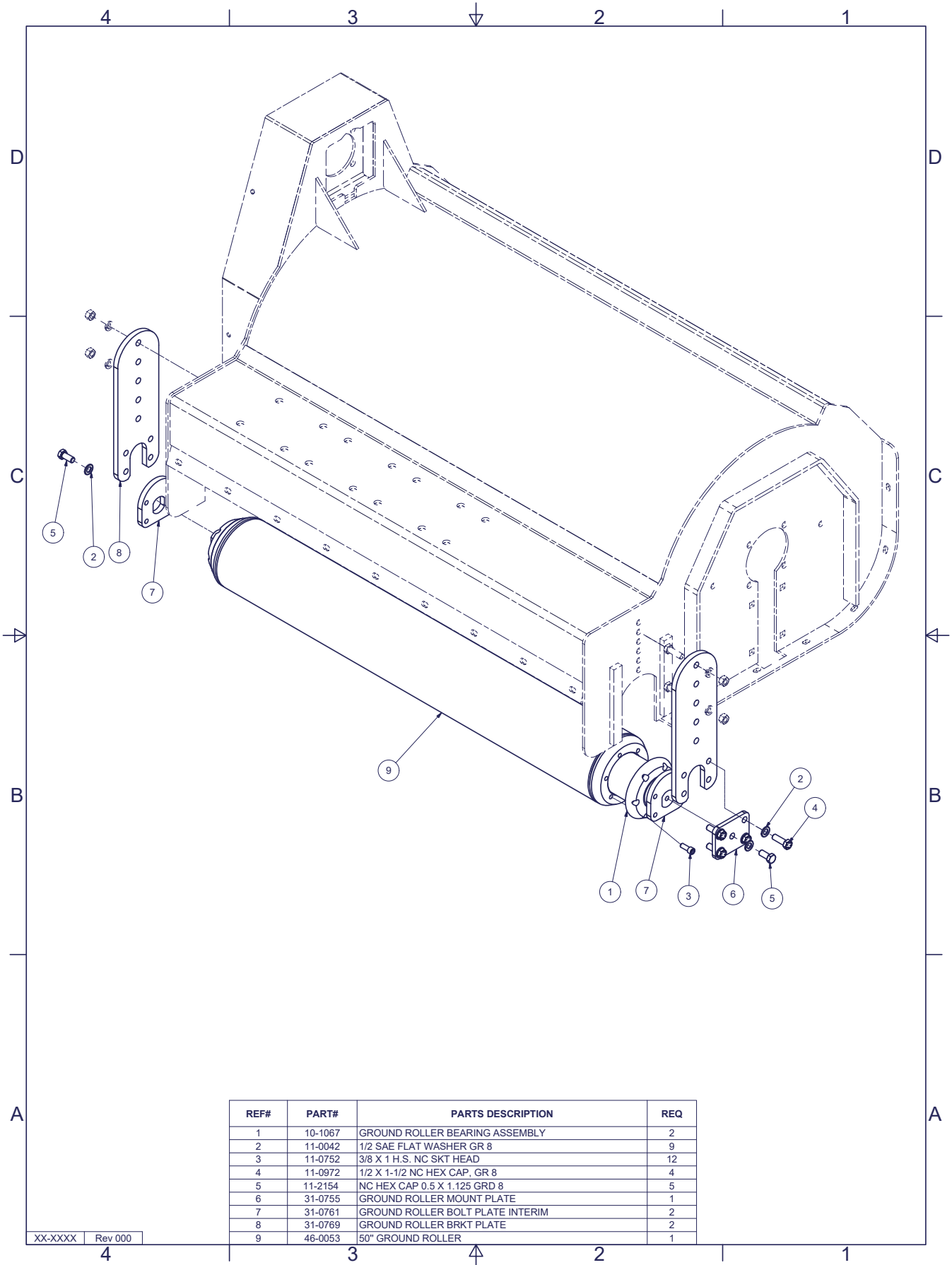




- Secure the ground roller bolt plate (5) to the ground roller mount plate (7) with the supplied hardware (6) on the drive belt side of the flail.
 - Use Loctite 262 with primer 7649 on the bolt threads, and torque the hardware to 75ft-lbs (102Nm).



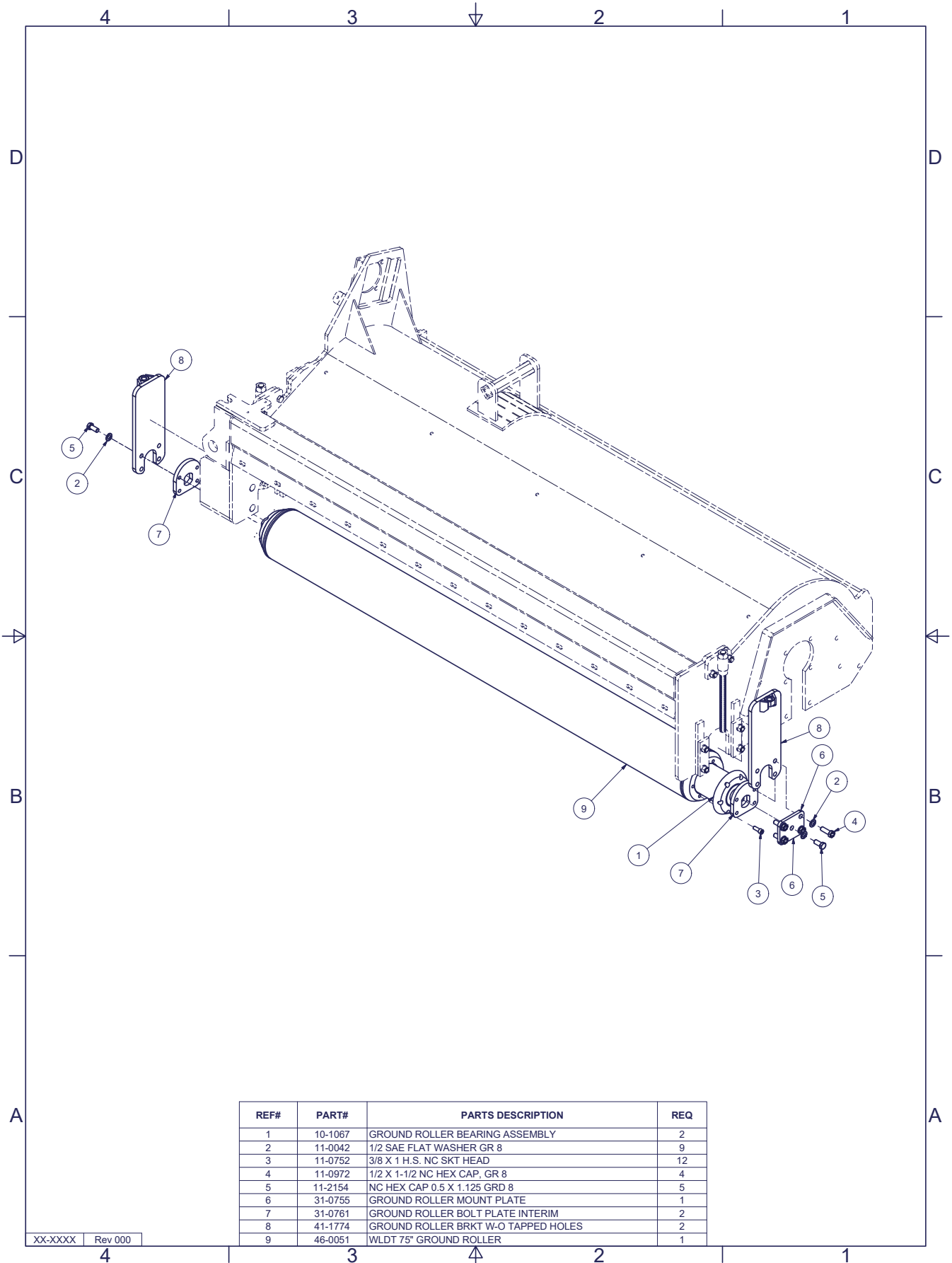
FLAIL HEAD - BOOM MOUNT



REF#	PART#	PARTS DESCRIPTION	REQ
1	10-1067	GROUND ROLLER BEARING ASSEMBLY	2
2	11-0042	1/2 SAE FLAT WASHER GR 8	9
3	11-0752	3/8 X 1 H.S. NC SKT HEAD	12
4	11-0972	1/2 X 1-1/2 NC HEX CAP, GR 8	4
5	11-2154	NC HEX CAP 0.5 X 1.125 GRD 8	5
6	31-0755	GROUND ROLLER MOUNT PLATE	1
7	31-0761	GROUND ROLLER BOLT PLATE INTERIM	2
8	31-0769	GROUND ROLLER BRKT PLATE	2
9	46-0053	50" GROUND ROLLER	1

XX-XXXX Rev 000

FLAIL HEAD - SIDE, REAR, & FRONT MOUNT



REF#	PART#	PARTS DESCRIPTION	REQ
1	10-1067	GROUND ROLLER BEARING ASSEMBLY	2
2	11-0042	1/2 SAE FLAT WASHER GR 8	9
3	11-0752	3/8 X 1 H.S. NC SKT HEAD	12
4	11-0972	1/2 X 1-1/2 NC HEX CAP, GR 8	4
5	11-2154	NC HEX CAP 0.5 X 1.125 GRD 8	5
6	31-0755	GROUND ROLLER MOUNT PLATE	1
7	31-0761	GROUND ROLLER BOLT PLATE INTERIM	2
8	41-1774	GROUND ROLLER BRKT W-O TAPPED HOLES	2
9	46-0051	WLDT 75" GROUND ROLLER	1

XX-XXXX Rev 000