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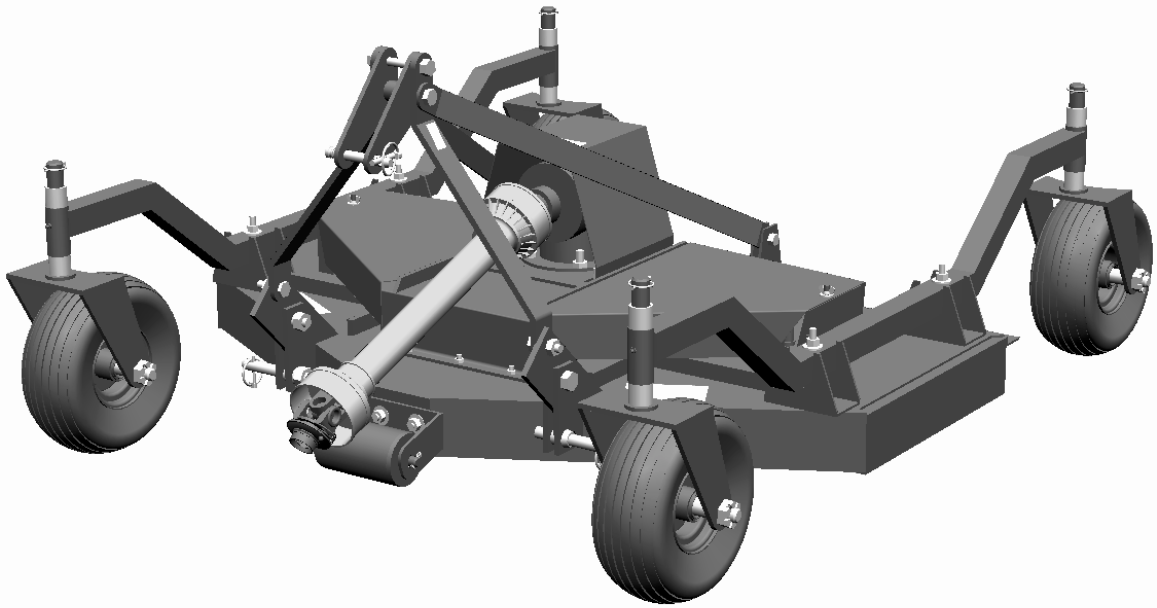


HEAVY DUTY FINISHING MOWER

Operator's and Parts Manual
FK369

2005

TABLE OF CONTENTS

DESCRIPTION **PAGE NUMBER**

OPERATION & ASSEMBLY

Warranty 1
Operating Safety 2
Transport Safety 3
Service and Maintenance Safety 3
Safety Signs 4
Hitch Assembly Instructions 5
Operating Instructions – Connecting to Tractor 6
Field Use Preparation 7
Field Operation 8
Disconnecting from Tractor 8
Bolt Torque 9
Heavy Duty Rear Discharge Finishing Mower Drawing 10
Heavy Duty Rear Discharge Finishing Mower Parts List 11

Gearbox Drawing 14
Gearbox Parts List 15
Spindle Assembly Drawing 16
Spindle Parts List 17
PTO Shaft Drawing 18
PTO Shaft Parts List 19
Chain Kit Assembly Instructions and Parts List 20
Chain Kit Drawing 21
Quick Hitch Kit Instructions 22
Quick Hitch Kit Drawing and Parts List 23

MAINTENANCE

PTO Shafts 24
Mower Deck Wheel Bearings 26
Blade Height Adjustment 27
Mower Gearbox Lubrication 28
Mower Spindle Lubrication 28
Spindle Replacement 29-31
Mower Deck Belt Adjustment 32-33
Blade Replacement 34-35
Service Notes and Maintenance Check List 36

Finishing Mower Bundles 37

WARRANTY POLICY

Buhler Manufacturing products are warranted for a period of twelve (12) months (90 days for commercial application) from original date of purchase, by original purchaser, to be free from defects in material and workmanship under correct, normal agricultural use and proper applications.

Buhler Manufacturing's obligations under this warranty shall be limited to the repair or exchange, at Buhler Manufacturing's option, of any Buhler Manufacturing product or part which proves to be defective as provided. Buhler Manufacturing reserves the right to either inspect the product at the buyer's location or have it returned to the factory for inspection.

The above warranty does not extend to goods damaged or subject to accident, abuse or misuse after shipment from Buhler Manufacturing's factory, nor to goods altered or repaired by anyone other than an authorized Buhler Manufacturing representative.

Buhler Manufacturing makes no Express Warranties other than those, which are specifically described. Any description of goods, including any references and specifications in catalogues, circulars and other written material published, is for the sole purpose of identifying goods and shall conform to such descriptions. Any sample or model is for illustrative purposes only and does not create an Express Warranty that the goods conform to sample or model shown.

The purchaser is solely responsible for determining suitability of goods sold. This warranty is expressly in lieu of all other warranties expressed or implied. Buhler Manufacturing will in no event be liable for any incidental or consequential damages whatsoever. Nor for any sum in excess of the price received for the goods for which liability is claimed.

WARRANTY CLAIMS:

Warranty requests must be prepared on Buhler Manufacturing Warranty Claim Forms with all requested information properly completed. Warranty Claims must be submitted within a thirty (30) day period from date of failure repair.

WARRANTY LABOR:

Any labor subject to warranty **must** be authorized by Buhler Manufacturing. The labor rate for replacing defective parts, where applicable, will be credited at 100% of the dealer's posted shop rate. Defective parts will receive an extra 10% discount to assist with freight or other incidental costs.

GOVERNMENT LEGISLATION:

Warranty terms and conditions are subject to Provincial or State legislation.

IMPORTANT FACTS:

Buckets and Bucket Tines Carry No Warranty
Bent Spears Carry No Warranty
Snowblower Fan Shafts Carry No Warranty
Mower Blades Carry No Warranty
Portable Auger Parts Have Two (2) Year Warranty
Loader Parts Have Two (2) Year Warranty

IMPORTANT NOTE: This warranty does not apply to rentals

HEAVY DUTY FINISHING MOWER

Rear Discharge Mowers available are:
1. F0648 - 60” Cut
2. F0649 - 72" Cut
3. F0650 - 84" Cut

All Heavy Duty Finishing Mowers are available in the following colors: red, blue, charcoal, orange and green.

All mowers have three blades to give a smooth even cut. Four wheels holding a free-floating deck allow the mower to follow all ground contours.

SAFETY INSTRUCTIONS

Do not attempt to operate the mower until you have read the operator’s manual and all the safety signs on the mower. ⚠ **NOTE:** The words Danger, Signal or Caution on the safety signs indicate a hazard or unsafe practice, which could result in injury or death if proper precautions are not taken. Do not attempt any unauthorized modifications to the mower as this could affect the function or the safety of the mower.

OPERATING SAFETY

1. Keep all safety signs clean and legible at all times. Replace damaged or missing safety signs.
2. Ensure all shields are in place and in good condition before operating.
3. Ensure everyone is clear of the area before operating.
4. Never start or operate the mower except from the operator’s station on the power unit.
5. Do not permit riders.
6. Stop engine, set brake, remove key and wait for all moving parts to stop before servicing, adjusting, repairing and unplugging.
7. Never operate over 540 rpm PTO speed.
8. Inspect and clean the cutting area before cutting.
9. Never operate the mower in the raised position.
10. Do not wear loose fitting clothing during operation.
11. Keep hands, feet, clothing and hair away from moving parts.
12. Keep all bystanders away from the unit when it is operating.
13. Check to see that all controls are in neutral before starting the tractor.

TRANSPORT SAFETY

1. Do not transport on a public road without a slow moving vehicle sign and flashers on the tractor.

2. Never have the mower in operation during transport.

3. Travel speed with a raised mower should be slow enough to maintain stability of the tractor.

SERVICE AND MAINTENANCE SAFETY

1. Stop engine, set brake, remove key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.

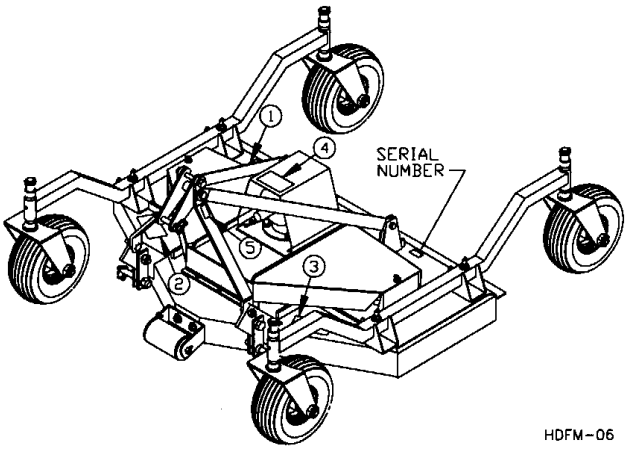
2. Block up before working beneath unit.

3. Replace all shields removed during servicing before operating.

4. Use heavy leather gloves to handle sharp blades.

   The safety signs used on the mower and their location are shown on the following sheet along with the part number for the safety signs.

HEAVY DUTY FINISHING MOWER SAFETY SIGNS



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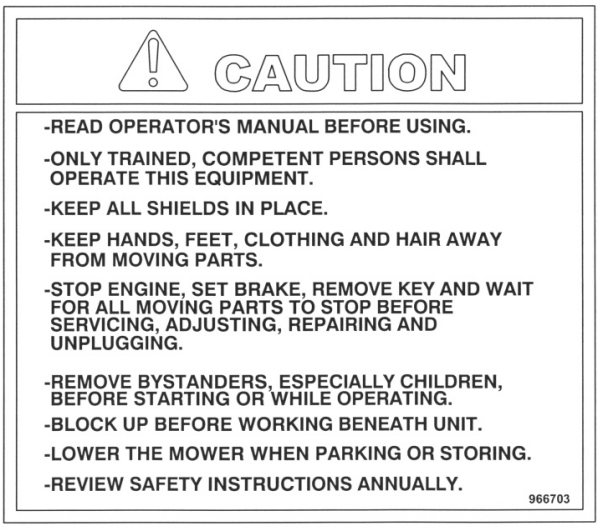

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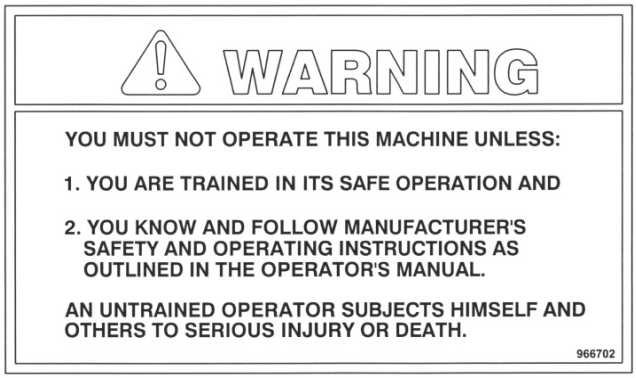

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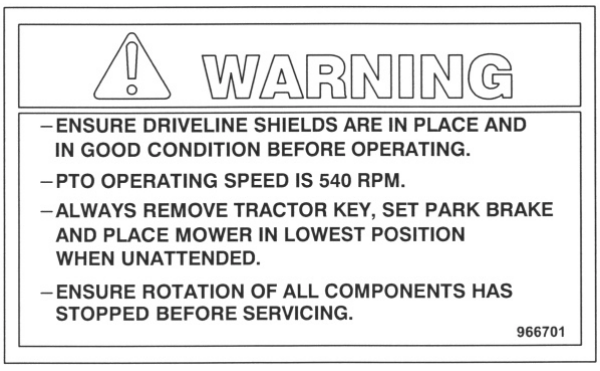

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Replace safety sign immediately should it become damaged, torn or illegible. Obtain replacements from your authorized dealer using the part numbers shown.

HITCH ASSEMBLY INSTRUCTIONS

1. The hitch is assembled except for the two pivot bars (#70). Bolt one end of each pivot bar between the welded brackets at the back of the deck using the bolts assembled in the mower.

2. Remove the 5/8" bolt (#64) at the top of the hitch assembly. Using the same bolt, assemble with the pivot bars on both sides of the upper lift bracket weldment (#63). The pivot bars should be between the lift bracket and the A-frame bars (#38).

OPERATING INSTRUCTIONS

The Heavy Duty Finishing Mower is designed to be used on a tractor with a standard category 1 three-point hitch. See the specification sheet for horsepower requirements. Using excessive power will shorten the life of the drive train components.

CONNECTING TO TRACTOR:

Park the mower and tractor on a level dry area free of debris and foreign objects.

1. Slowly back the tractor up to the machine.

2. Adjust the three-point arms to align with the mower lift pins.

3. Stop the tractor, set the parking brake and remove the ignition key before dismounting.

4. Slide the three-point arms on the lift pins and lock in place with the clips supplied.

5. With the engine on the tractor shut off, attach the PTO shaft. Both ends of the PTO have a standard 6-spline end with a spring-loaded locking collar. Turn the round collar at the ends of the PTO clockwise to slide onto the splined shafts. The spring-loaded pin in the PTO yoke must lock into the groove on the splined shaft on the gearbox and tractor. Always check to see that both ends of the PTO shaft are securely attached every time the mower is used. This should always be done with the tractor engine shut off. Attach the safety chains supplied with the PTO shaft, allowing sufficient slack for the driveline during turns and operation. Check booklet attached to the PTO for instructions.
   ⚠ **NOTE:** At lease one third of the telescoping length of the PTO snould overlap when the mower is in operation.

6. Attach the top link on the tractor to the link pin assembled in the upper lift pin bracket (#63). Adjust the turnbuckle on the tractor top link so that the upper lift bracket hangs straight down with the tractor and mower both on level ground.

FIELD USE PREPARATION

1. Park the unit on hard level ground with the mower slightly raised.

2. Adjust the sway blocks or chains on the tractor so the mower is centered between the rear wheels.

3. Adjust the three-point arms to level the mower side to side.

4. Adjust the turnbuckle on the top of the three-point hitch arms to level the mower front and back.

5. Adjust the cutting height using the wheel spacers (#50 and #51) on the wheel yokes. The spacers should be set at the same height on all four wheels.

6. Check the oil level in the gearbox and add as required (see maintenance section).

7. Grease spindle assembly, wheel bearings, wheel pivots and the PTO shaft (see maintenance section).

8. Check tightness of belts, bolts and other hardware (see maintenance section).

9. Check blades to see if they are damaged. Sharpen or replace blades if necessary. Check that blade bolts are tight.

10. Clear the working area of foreign objects and check that all bystanders are standing clear before starting.

11. Start the tractor with the mower resting on the ground on all four wheels.

12. Slowly engage the PTO and bring the PTO speed up to 540 rpm for cutting.

FIELD OPERATION

1. The mower works best on dry grass. Slower cutting speed and occasional cleaning may be required on damp or wet grass.

2. The PTO must run at the full 540 rpm for a good cut. Slower speeds or double cutting could be required for very high grass.

3. Use a higher blade setting for rough areas to prevent scalping of the surface.

4. Always cut counter-clockwise so grass clippings are thrown on the grass already cut. This saves power and wear on the blades.

5. Sharpen blades if grass tears instead of cutting cleanly.

6. Slow down when cutting corners. Turning too sharply on corners can leave a small strip of grass uncut.

DISCONNECTING FROM TRACTOR

1. Park on a firm level area and clean the mower.

2. Lower the mower until the load is off the hitch arms.

3. Disconnect the hitch arms and the PTO shaft.

4. Cover the mower for storage to prevent rust.

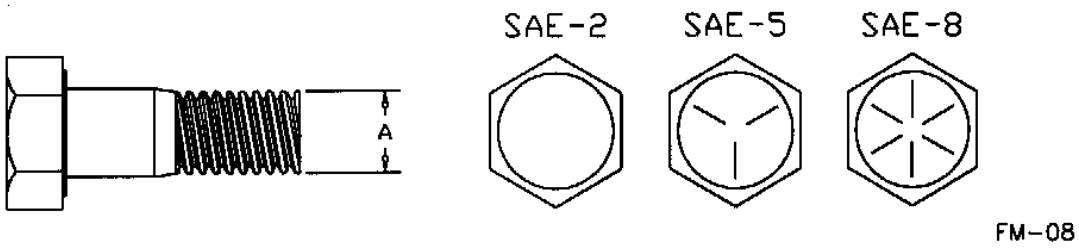
BOLT TORQUE

CHECKING BOLT TORQUE

The tables shown below give correct torque values for various bolts and hex bolts. Tighten all bolts to the torques specified in chart unless otherwise noted. Check tightness of bolts periodically, using bolt torque chart as a guide. Replace hardware with the same strength bolt.

ENGLISH TORQUE SPECIFICATIONS

Bolt Diameter "A"	Bolt Torque * SAE2 N.m	(lb-ft)	SAE 5 N.m	(lb-ft)	SAE 8 N.m	(lb-ft)
1/4"	8	(6)	12	(9)	17	(12)
5/16"	13	(10)	25	(19)	36	(27)
3/8"	27	(20)	45	(33)	63	(45)
7/16"	41	(30)	72	(53)	100	(75)
1/2"	61	(45)	110	(80)	155	(115)
9/16"	95	(70)	155	(115)	220	(165)
5/8"	128	(95)	215	(160)	305	(220)
3/4"	225	(165)	390	(290)	540	(400)
7/8"	230	(170)	570	(420)	880	(650)
1"	345	(225)	850	(630)	1320	(970)

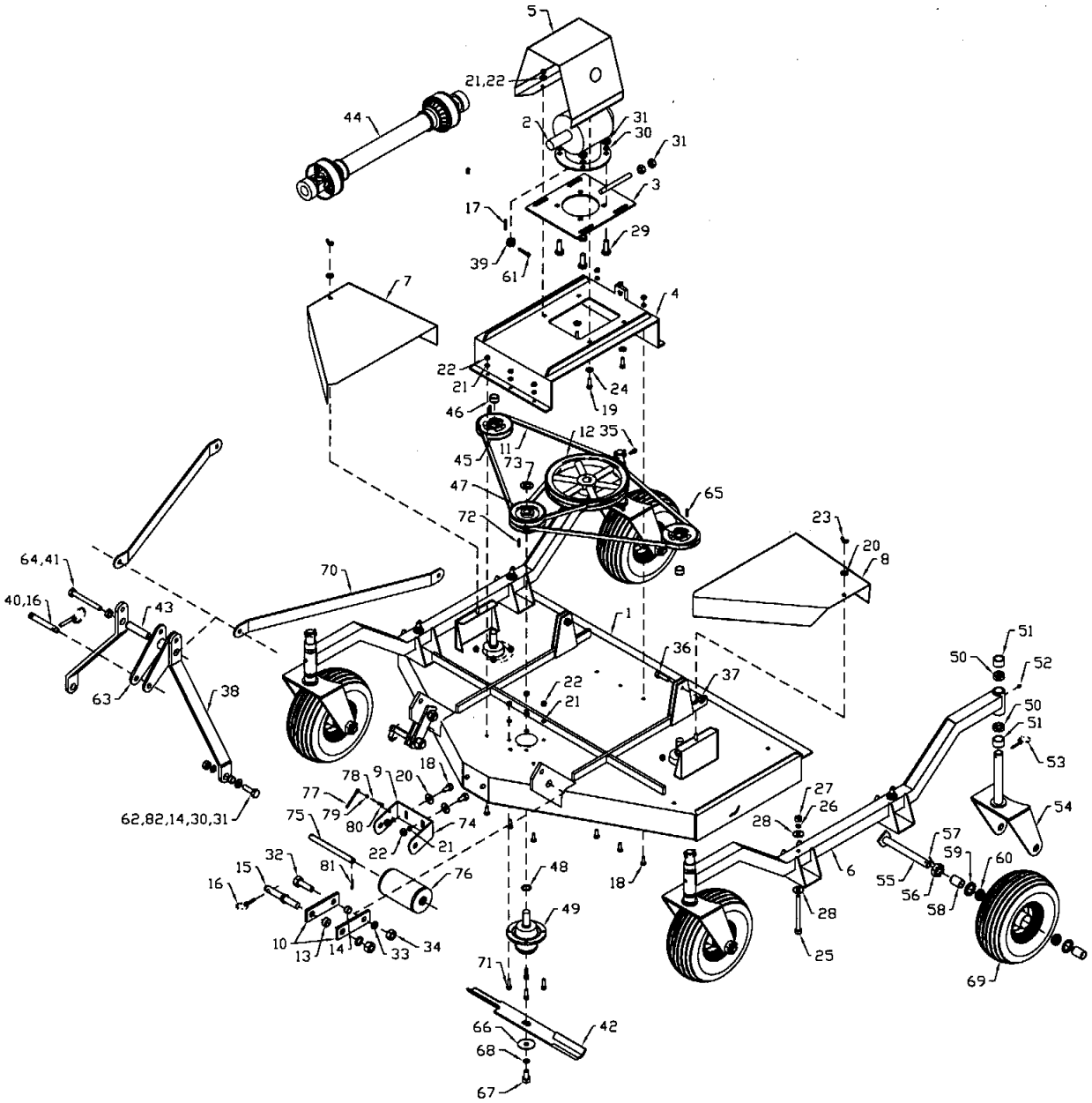


NOTE: See page 29 for correct spindle torque. Do not use this chart for spindle bolt only.

Torque figures indicated above are valid for non-greased or non-oiled threads and heads unless otherwise specified. Therefore, do not grease or oil bolts or hex bolts unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

* Torque value for bolts and hex bolts are identified by their head markings.

5', 6' & 7' HEAVY DUTY REAR DISCHARGE FINISHING MOWER



WHEN ORDERING PARTS

Always give your dealer the Model, Color and Serial Number of your machine to assist him in ordering and obtaining the correct parts. Use the exploded view and tabular listing of the area of interest to exactly identify the required part.

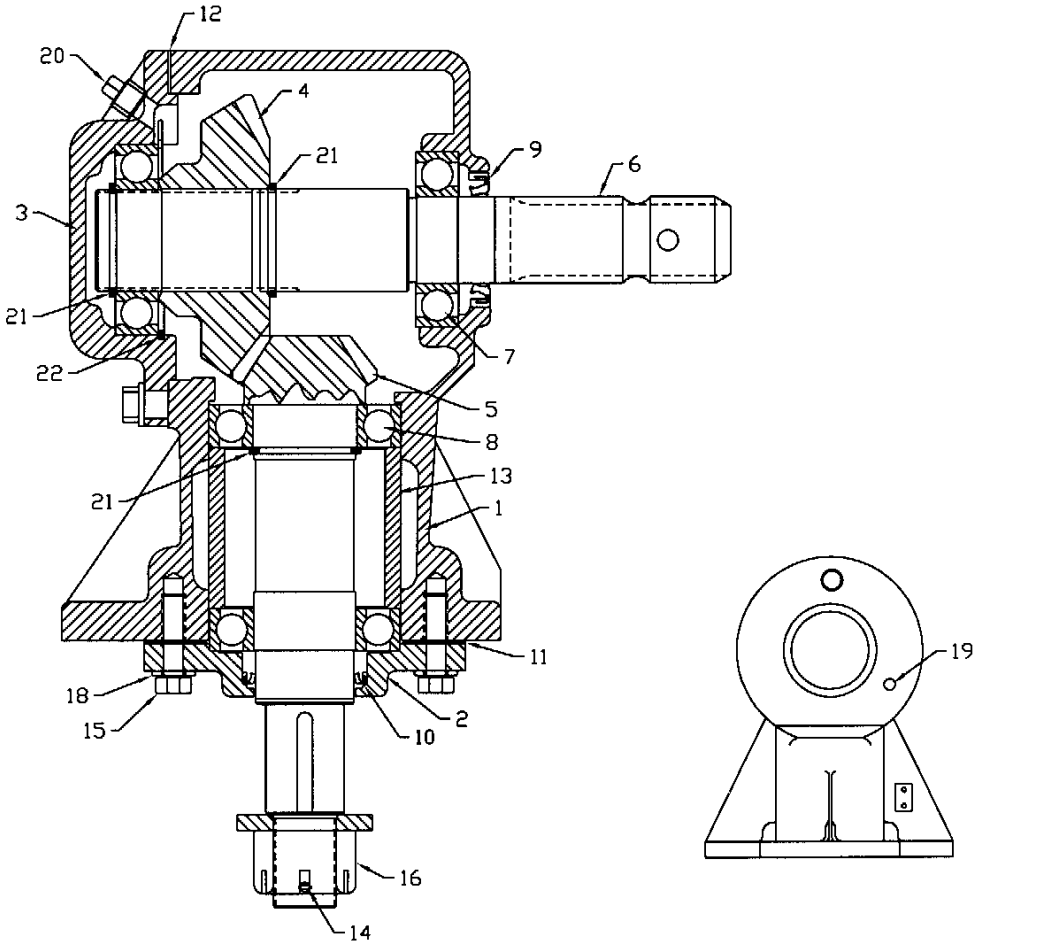
5', 6', & 7' HEAVY DUTY REAR DISCHARGE FINISHING MOWER

ITEM	PART #	DESCRIPTION
1	902667	Deck Weldment (5')
	902668	Deck Weldment (6')
	902669	Deck Weldment (7')
2	912300158	Gearbox (Without Oil)
3	980004200	Gearbox Base Plate
4	906343	Gearbox Mount Plate
5	966748	PTO Guard
6	908942	67 1/2" Axle Beam Weldment (5')
	908944	69 1/2" Axle Beam Weldment (6')
	908946	71 1/2" Axle Beam Weldment (7')
7	906353	R.H. Pulley Guard (5')
	906355	R.H. Pulley Guard (6')
	902269	R.H. Pulley Guard (7')
8	906354	L.H. Pulley Guard (5')
	906356	L.H. Pulley Guard (6')
	902268	L.H. Pulley Guard (7')
9	903488	Roller Holder 7ga x 4 5/32" x 18 1/4"
10	966723	Lift Bracket
11	904251	B-70 Belts (5')
	973506	B-78 Belts (6')
	973248	B-87 Belts (7')
12	966722	12" Double Sheave c/w Set Screws
13	966601	Lift Pin Bushing (1 1/4" O.D. x 9/16" long)
14	966727	Hitch Bushing (1" O.D. x 9/16" long)
15	966823	Lift Pin C/W Nut & Washer (XL) (Cat. 1)
16	965911	7/16" Linch Pin (1493)
17	900929	Pulley Key (1/4" sq x 1 5/8" long)
18	86170	3/8" x 1" Hex Bolt (pl)
19	86182	3/8" x 1 1/4" Carriage Bolt (pl)
20	84000	3/8" B.S. Flat Washer (pl)
21	81593	3/8" Lock Washer (pl)
22	81592	3/8" Hex Nut (pl)
23	84217	3/8" Wing Nut (pl)
24	964001	1"OD x 7/16" I.D. x 10ga Flat Washer (pl)
25	811646	1/2" x 6" Hex Bolt (pl)
26	81637	1/2" Lock Washer (pl)

27	81636	1/2" Hex Nut (pl)
28	812769	1 1/2" O.D. x 9/16" I.D. x 10ga Washer (pl)
29	84270	5/8" x 1 3/4" Hex Bolt (pl)
30	81677	5/8" Lock Washer (pl)
31	81676	5/8" Hex Nut (pl)
32	84346	3/4" x 2 1/2" Hex Bolt (pl)
33	81701	3/4" Lock Washer (pl)
34	81700	3/4" Hex Nut (pl)
35	9812377	5/16" x 3/4" Sq Head Set Screw (pl)
36	84277	1/2" x 1 1/2" Hex Bolt (pl)
37	812364	1/2" Lock Nut (pl)
38	906789	A-Frame 24" long
39	905247	1"ID Washer & Slotted Hex Nut Weldt Incl. w/ Gbox
40	965807	Top Link Pin (Cat. 1)
41	812482	5/8" Lock Nut (pl)
42	966273	21 3/4" Hard Surfaced Blade (5')
	966274	25 3/4" Hard Surfaced Blade (6')
	966167	29 3/4" Hard Surfaced Blade (7')
43	906791	Arm Spacer 1"OD x 4 1/4"
44	F0401	PTO Shaft (5' & 6')
	F0400	PTO Shaft (7')
45	904245	4 1/2" Single Sheave Assy (mach end up) (5' & 6')
	904247	5 1/4" Single Sheave Assy (mach end up) (7')
46	966811	Sheave Spacer 1 1/4" O.D. x .70" long
47	904246	4 1/2" Double Sheave c/w Set Screws (5' & 6')
	904248	5 1/4" Double Sheave c/w Set Screws (7')
48	912301558	1" Snap Ring
49	966860	Spindle w/ Hardware
50	902504	1/2" long x 1 5/8" O.D. Bushing (pl)
51	902503	1" long x 1 5/8" O.D. Bushing (pl)
52	967164	Pound-in Grease Nipple
53	966729	3/16" Linch Pin (pl)
54	902422	Wheel Yoke
55	902489	1" x 9 1/4" Wheel Yoke Pin (pl)
56	967498	1" Slotted Head Nut (pl)
57	812681	3/16" x 1 1/2" Cotter Pin (pl)
58	902505	1 3/4" x 1 1/4" O.D. Wheel Spacer (pl)
59	967497	SE10 - Oil Seal
60	966776	Bearing Cone (L44643)
61	81207	3/16" x 2" Cotter Pin (br)
62	84299	5/8" x 2" Hex Bolt (pl)
63	906792	Arm Brace Weldt
64	81674	5/8" x 5 1/2" Hex Bolt (pl) (5' & 6')
	967901	5/8" x 5 3/4" Hex Bolt (pl) (7')
65	900931	1/4" Sq. x 1.11" Key

66	966188	2 1/2" O.D. x 21/32" I.D. Wash (Supp w/ Spndl)
67	966189	5/8" x 1 1/4" Gr. 8 Hex Bolt Lck (Supp w/ Spndl)
68	966190	5/8" Lock Washer (pl) Extra Heavy (Supp w/ Spndl)
69	966195	15/600 x 6" Tire with Wheel
70	902656	Pivot Bar 38 1/2" long (5')
	902657	Pivot Bar 43 1/2" long (6')
	902666	Pivot Bar 48" long (7')
71	811792	3/8" x 1 1/2" Hex Bolt (pl)
72	900930	1/4" x 1 1/2" Key
73	967140	1" x 10ga Narrow Rim Washer (pl)
74	903488	Roller Holder 1/4" x 4 5/32" x 18 1/4" long
75	903104	Roller Pin 3/4" dia. X 8 3/4" long
76	903113	Front Roller Assembly
77	9812436	1/4" x 2 1/2" Cotter Pin (pl)
78	81545	1/4" Lock Washer (pl)
79	81544	1/4" Hex Nut (pl)
80	81525	1/4" x 3/4" Hex Bolt (pl)
81	967445	1/4" x 1 1/4" Cotter Pin (pl)
82	81678	5/8" BS Flat Washer Std (pl)

HEAVY DUTY FINISHING MOWER GEARBOX

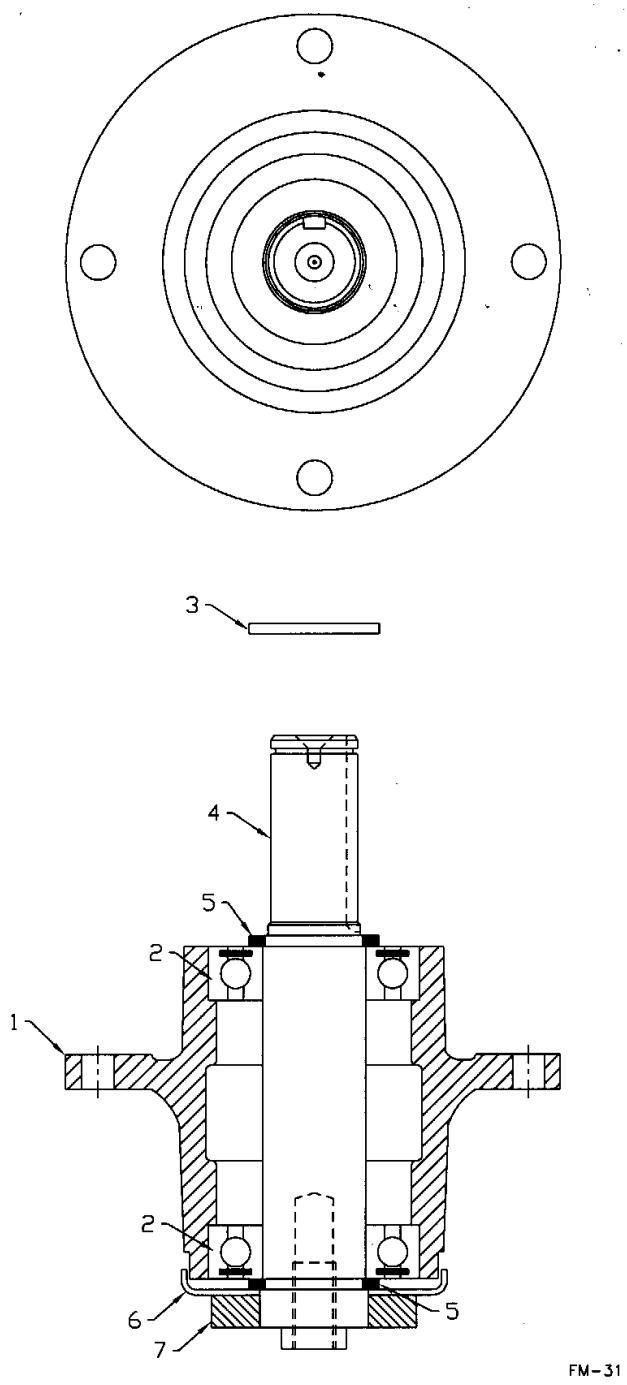


912300158

HEAVY DUTY FINISHING MOWER GEARBOX PARTS LIST

Item #	Part #	Description
	912300158	Gearbox Complete
1	966813	Housing
2	914015	Output Cap
3	966814	Blank Cap
4	966815	Input Gear, 29T
5	966816	Pinion Gear, 15T
6	966817	Input Shaft
7	966542	Ball Bearing, 6207
8	966555	Ball Bearing, 6208
9	966818	Input Seal
10	966819	Output Seal
11	914019	Output Gasket
12	914007	Input Gasket
13	914001	Spacer
14	966562	Cotter Pin
15	86171	3/8" x 1 1/4" Hex Bolt
16	905247	1" NF Hex Nut W/Washer
18	81593	3/8" Lock Washer
19	914016	1/8" Sq. Hd. Solid Plug
20	966193	1/4" Vented Plug
21	914008	Retaining Ring
22	914003	Retaining Ring

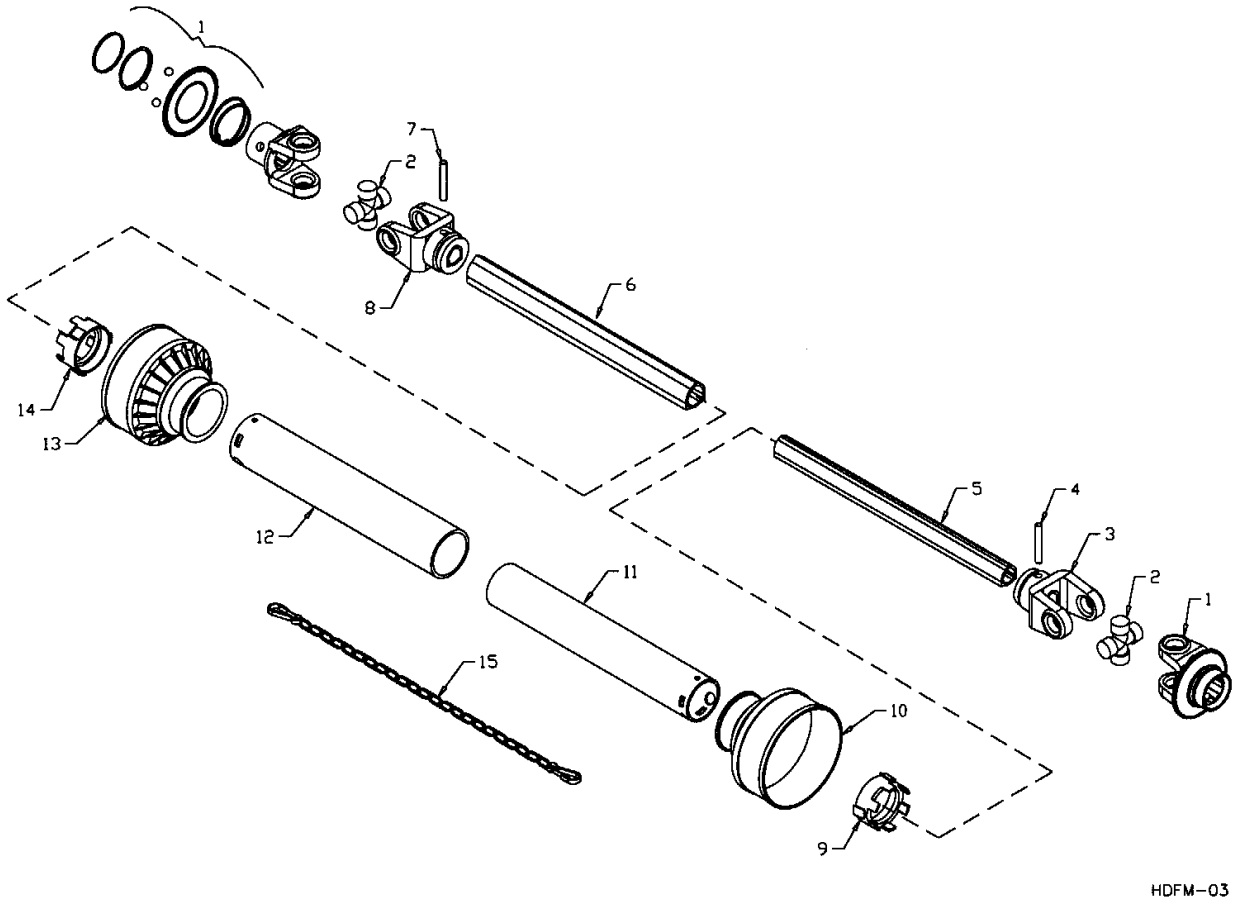
HEAVY DUTY FINISHING MOWER SPINDLE ASSEMBLY



HEAVY DUTY FINISHING MOWER SPINDLE PARTS LIST

Item #	Part #	Description
	966860	Spindle Assembly Complete (Includes Hardware)
1	966862	Spindle Housing
2	966863	Spindle Bearing (63067)
3	912301558	Snap Ring
4	906394	Spindle Shaft
5	966769	Snap Ring
6	966865	Shield
7	966821	Blade Mount Base

HEAVY DUTY REAR DISCHARGE FINISHING MOWER PTO SHAFT



HEAVY DUTY REAR DISCHARGE FINISHING MOWER
PTO SHAFT PARTS LIST

Item #	Part #	Description
	F0401	Shaft Complete - 5' & 6'
	F0400	Shaft Complete - 7'
1	907290	Yoke
2	920-002	Repair Kit
3	920-004	Outer Tube Yoke
4	920-006	Flexible Pin
5	936404	Outer Cardan Tube - 5' & 6'
	936403	Outer Cardan Tube - 7'
6	936406	Inner Cardan Tube - 5' & 6'
	936405	Inner Cardan Tube - 7'
7	930-109	Flexible Pin
8	920-003	Inner Tube Yoke
9	920-013	Outer Bearing
10	920-017	Outer Cone Set
11	936408	Outer Safety Tube - 5' & 6'
	936407	Outer Safety Tube - 7'
12	936410	Inner Safety Tube - 5' & 6'
	936409	Inner Safety Tube - 7'
13	920-014	Inner Cone Set
14	920-015	Inner Shield Bearing
15	936402	Safety Chain

HEAVY DUTY FINISHING MOWER CHAIN KIT ASSEMBLY

1. Drill 13/32” holes in the back lip of the deck Weldment spaced as shown on the drawing. The hole spacing should be centered across the width of the back lip.

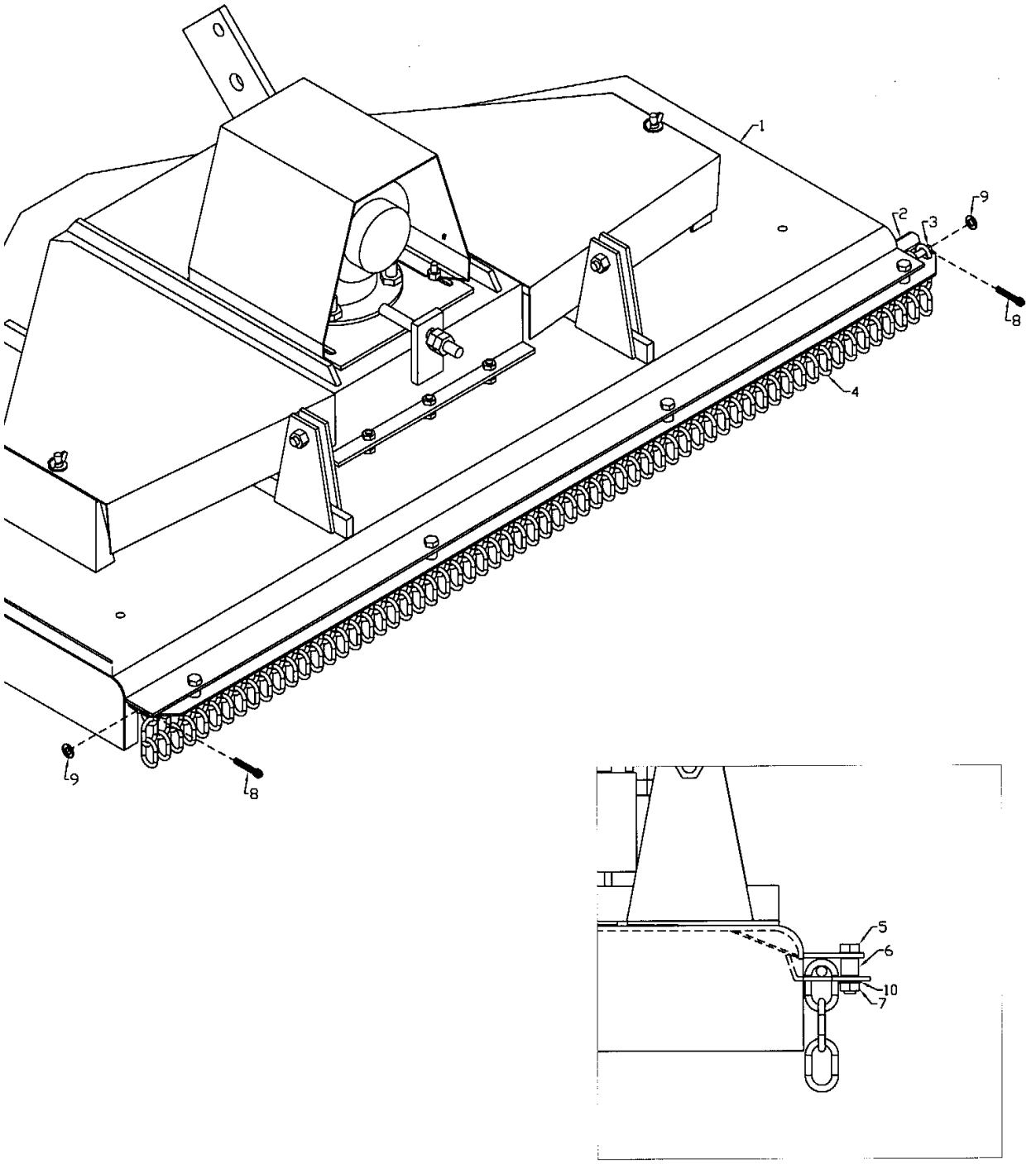
2. With the narrow lip of the chain guard plate (#2) turned up, push an end link of a 3-link chain up through the slot nearest the end of the guard place. The chain rod (#3) slides through the chain link along the top surface of the chain guard plate. Slide through each chain in order along the entire guard place. Slide a flat washer on each end of the rod. Hold the assembly in place with a 1/8” x 1” cotter pin (#8) at both ends of the rod.

3. A 5/8” long spacer (#6) fits between the guard plate and the rear lip on the deck. These spacers must be centered on the holes in the guard plate and the rear lip on the deck. With the spacers in place, position the chain guard assembly under the lip on the deck. Clamp on assembly to hold in place. Bolt guard plate assembly to the deck using 3/8” x 1 ½” bolts, lock washers and hex nut.

Heavy Duty Rear Discharge Finishing Mower Chain Kit

Item #	Part #	Description
1	902667	5' Deck Weldment
	902668	6' Deck Weldment
	902669	7' Deck Weldment
2	902820	62 1/4" Chain Guard Plate (5')
	902823	74 1/4" Chain Guard Plate (6')
	902825	86 1/4" Chain Guard Plate (7')
3	902827	62 3/8" Lg Chain Kit Rod (5')
	902828	74 3/8" Lg Chain Kit Rod (6')
	902829	86 3/8" Lg Chain Kit Rod (7')
4	967907	1/4" X 3 Link Chain Pl
5	811792	3/8" X 1 1/2" Hex Bolt (pl)
6	902821	Spacer 5/8" OD X 12Ga X 5/8" Lg
7	81592	3/8" Hex Nut (pl)
8	9812430	1/8" X 1" Cotter Pin (pl)
9	84039	3/8" SAE Washer (pl)
10	81593	3/8" Lock Washer (pl)

HEAVY DUTY REAR DISCHARGE CHAIN KIT



QUICK HITCH KIT INSTRUCTIONS

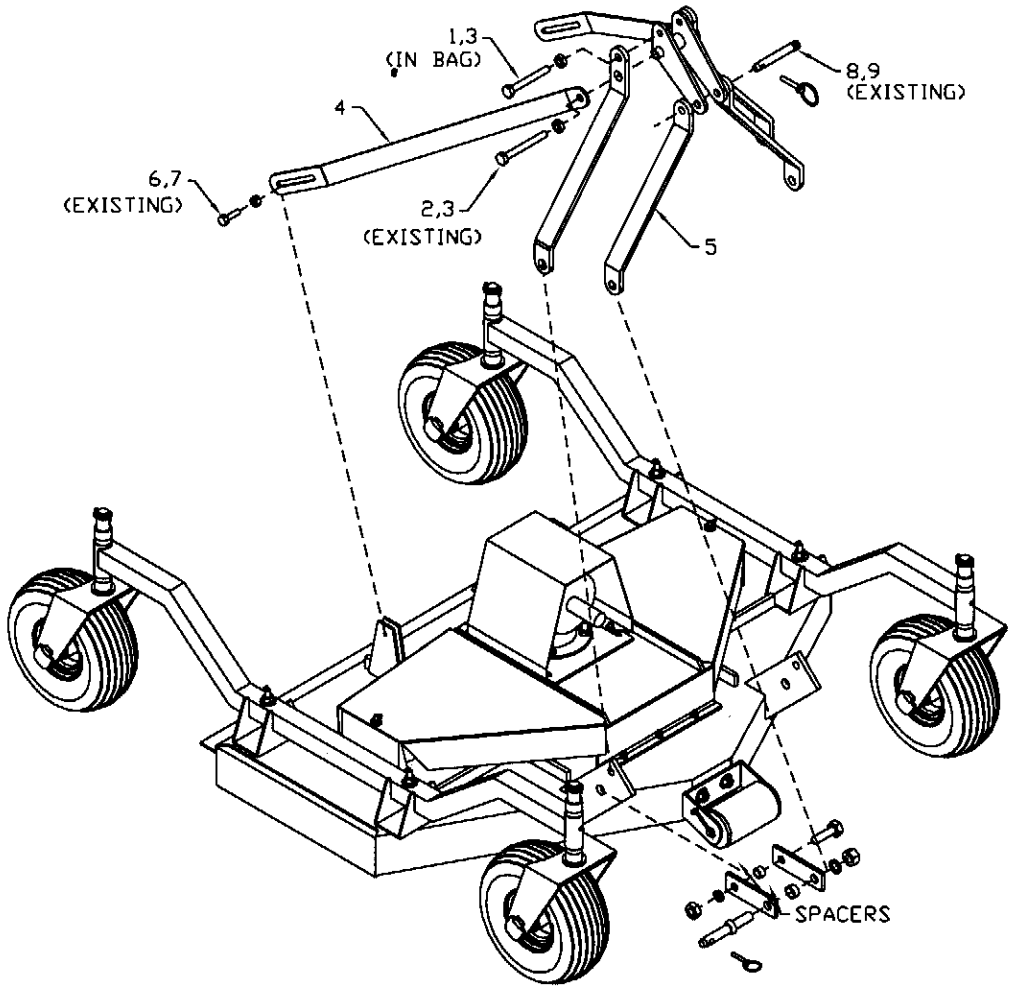
1. Remove the standard pivot bars from the mower and replace with the Quick Hitch Pivot Bars (#4). The slotted end of the pivot Bars is at the back of the mower. Check to see that these bars slide freely on the slots after tightening bolts.

2. Lock the swivel link at the top of the “A” frame by bolting on with a 5/8” x 5” hex bolt (#1) and a lock nut.

3. Remove the top link pin (#8) and the hex nuts from the bottom lift pins.

4. Mount the quick hitch arms (#5) to the outside on both sides of the swivel link. Hold them in place using the link pin (#8). The lower end of these arms fit on the inside of the lift brackets. Hold in place using the hex nuts from the bottom lift pins.

QUICK HITCH KIT



#	PART #	DESCRIPTION	QTY
1	81673	5/8" X 5" HEX BOLT (PL)	1
2	81674	5/8" X 5 1/2" HEX BOLT (PL) (4' – 6')	1
	967901	5/8" X 5 3/4" HEX BOLT (PL) (7')	1
3	813529	5/8" LOCK NUT (PL)	2
4	906992	PIVOT BAR 1/4" X 2" X 37" (4')	2
	906993	PIVOT BAR 1/4" X 2" X 40" (5')	2
	906994	PIVOT BAR 1/4" X 2" X 46" (6')	2
	906995	PIVOT BAR 3/8" X 2" X 51" (7')	2
5	906788	HITCH ARM 1/2" X 2" X 20 3/4"	2
6	84277	1/2" X 1 1/2" HEX BOLT (PL)	2
7	812364	1/2" LOCK NUT (PL)	2
8	965807	TOP LINK PIN (CAT 1)	1
9	965911	7/16" LINCH PIN	3

HDFM-05

HEAVY DUTY FINISHING MOWER PTO SHAFTS

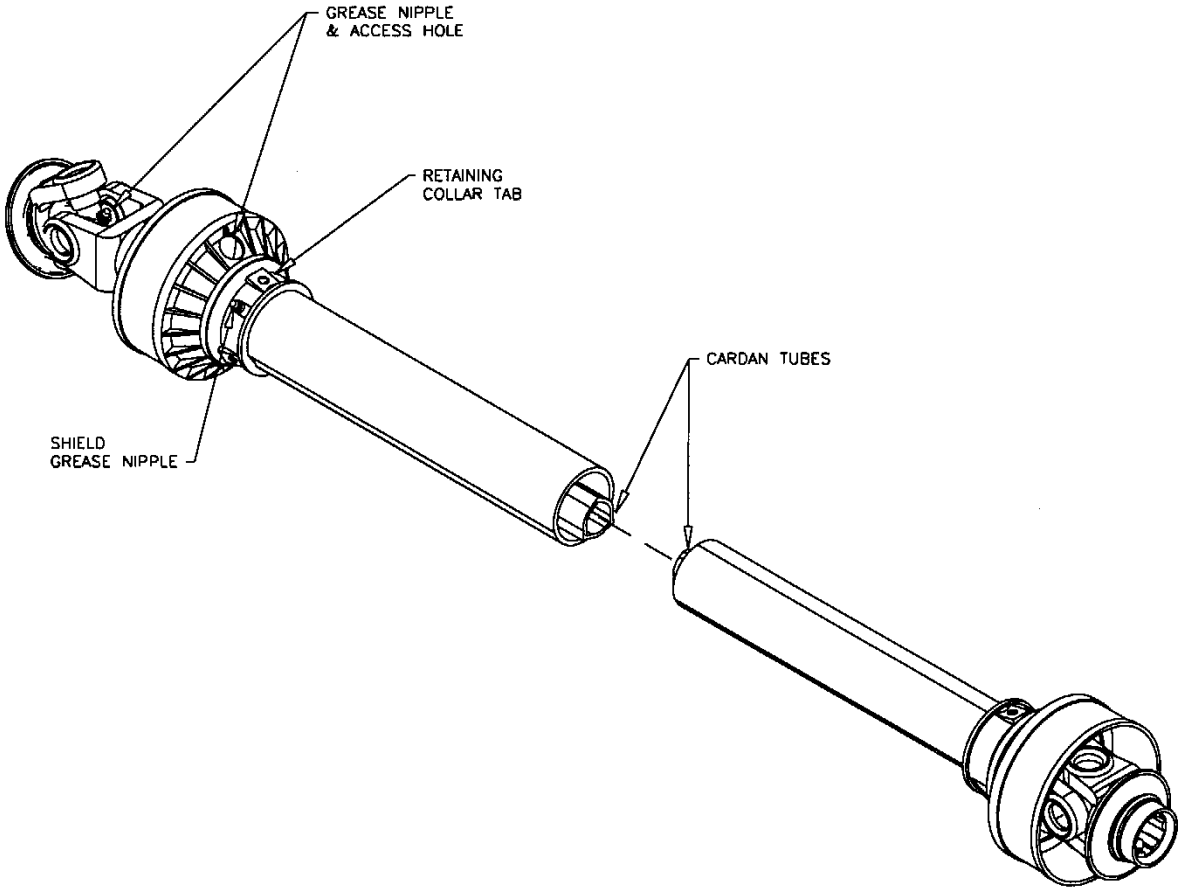
MAINTENANCE: The cross journals and the shield bearings at both ends of the shaft should be greased every 8 hours. Use 1 or 2 pumps of high temperature grease. The cones on the outer PTO shield must be turned until the access holes line up with the grease nipple in the cross journals. The grease nipple for the shield bearings is on the bottom edge of the cone. The PTO shaft must be pulled apart to grease the cardan tubes. Put about 4 pumps of grease into the female or larger outer tube. Slide the two halves back together. The quick release collars on the ends of the PTO shaft should also be kept lubricated. The cardan tubes and the release collars should be greased about every 20 hours. Clean all grease fittings before injecting grease and immediately replace any damaged or missing grease fittings.

SERVICE: The two major service areas on the mower PTO shafts are the shielding and the cross journals. The outer guards are held on by a nylon shield bearing. The three round white tabs at the bottom edge of the shield cones must all be pushed in to pull the shield off the cardan yoke and tube assembly. To replace the outer guards, first fit the nylon shield bearing into the groove machined into the yoke. Slide on the outer guard till it snaps in. The tabs on the shield bearing must line up with grooves on the inside of the outer guard.

The cross journals must be removed using a press or a vise. Do not use a hammer. Cross journal replacement is done with the outer shield removed. Remove the snap rings at the ends of the cross journal before pressing out. The cups on the ends of the cross journal contain numerous needle bearings. If even one of these needle bearings falls over, you will not be able to assemble the cross journal. Check that the end yoke turns freely after replacing a cross journal. Adjust the spread on the end yoke if necessary to loosen up the turning.

The quick release collars on the ends of the PTO shaft are held on by a snap ring. A pin and spring are inside the collar. Repair immediately if the collar fails to hold the PTO shaft solidly in place.

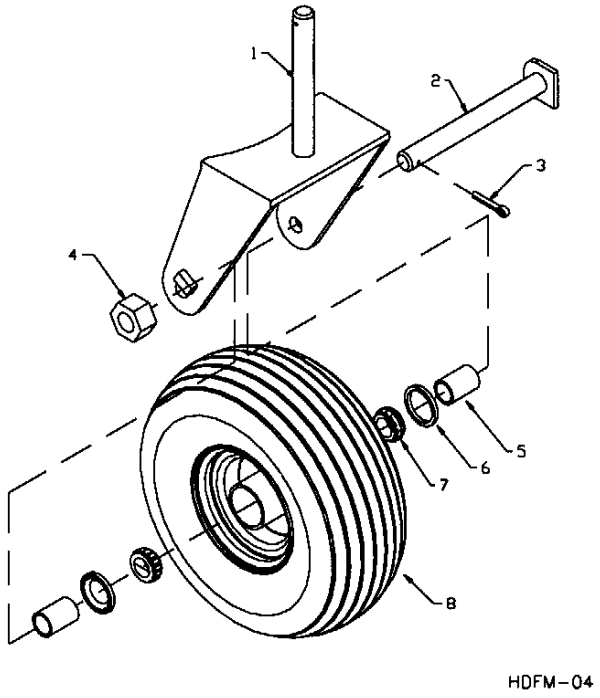
PTO SHAFT



HDFM-10

MOWER DECK WHEEL BEARINGS

The mower wheel bearings are packed in grease when they are shipped. They should be repacked in fresh grease once a year or every 200 hours of usage.

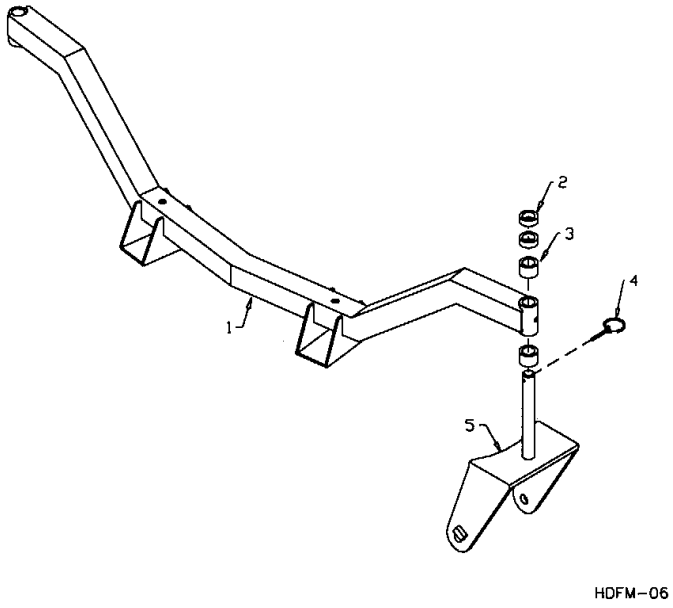


MOWER DECK WHEEL BEARINGS

ITEM	PART#	DESCRIPTION
1	902422	Wheel Yoke
2	902489	1'' x 9 1/4'' long Wheel Yoke Pin
3	812681	3/16'' x 1 1/2'' Cotter Pin (pl)
4	967498	1'' Slotted Hex Nut (NF) 14 (pl)
5	902505	1 3/4'' x 1 1/4'' O.D. Wheel Spacer (pl)
6	967497	Oil Seal Se 10
7	966776	Bearing Cone (L44643)
8	966195	Tire & Rim (15 x 6 - 6)

BLADE HEIGHT ADJUSTMENT

The mowers must be raised off the ground far enough to pull the wheel yoke (#5) out of the welded sleeves at the ends of the axles (#1). Be sure the tractor is turned off. Pull out the clip (#4) and remove the wheel yoke. There are ½" and 1" spacers to adjust the cutting height. The cutting height is 1 ¾" with no spacers under the sleeve at the end of the axles. This can be adjusted using the spacers by ½" increments up to 4 ¾". Check to see that the spacers are set at the same height on all the wheel yokes.

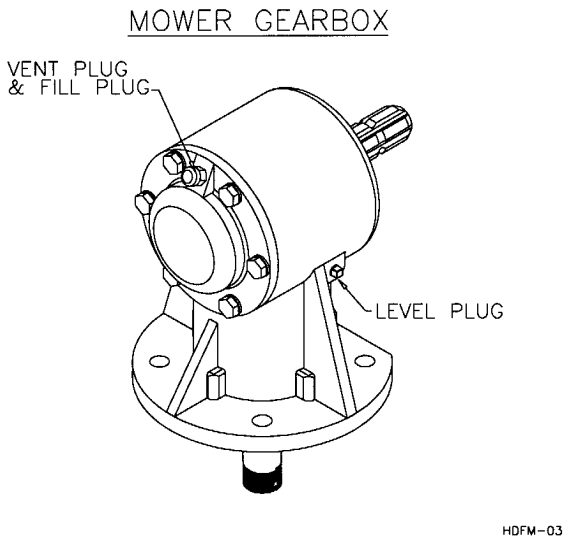


BLADE HEIGHT ADJUSTMENT

ITEM	PART#	DESCRIPTION
1	908942	67 1/2'' Axle Beam Weldment (5')
	908944	69 1/2'' Axle Beam Weldment (6')
	908946	71 1/2'' Right Axle Beam Weldment (7')
2	902504	1/2'' Lg x 1 5/8'' OD Bushing (pl)
3	902503	1'' Lg x 1 5/8'' OD Bushing (pl)
4	966729	3/16'' Linch Pin (pl)
5	902422	Wheel Yoke

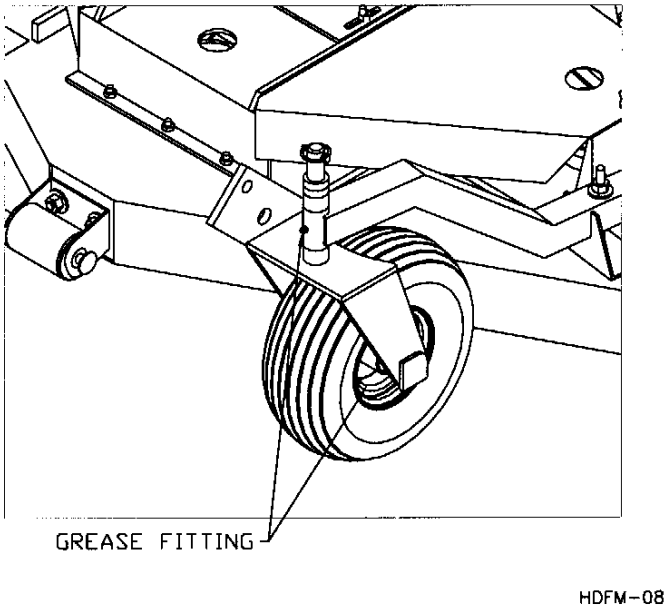
MOWER GEARBOX LUBRICATION

The gearbox should be filled with SAE90 oil to the bottom of the level plug when shipped. Check the mower gearbox before using and at regular intervals (approximately every 40 hours). See that the oil level is maintained. On the mower gearbox the vent plug also acts as the fill plug.



MOWER SPINDLE LUBRICATION

Use a high temperature grease for all applications. The mower deck wheel spindles have a grease nipple in the sleeve welded to the ends of the axle and in the wheel hub. These locations should receive 3 or 4 pumps of grease about every 8 hours.



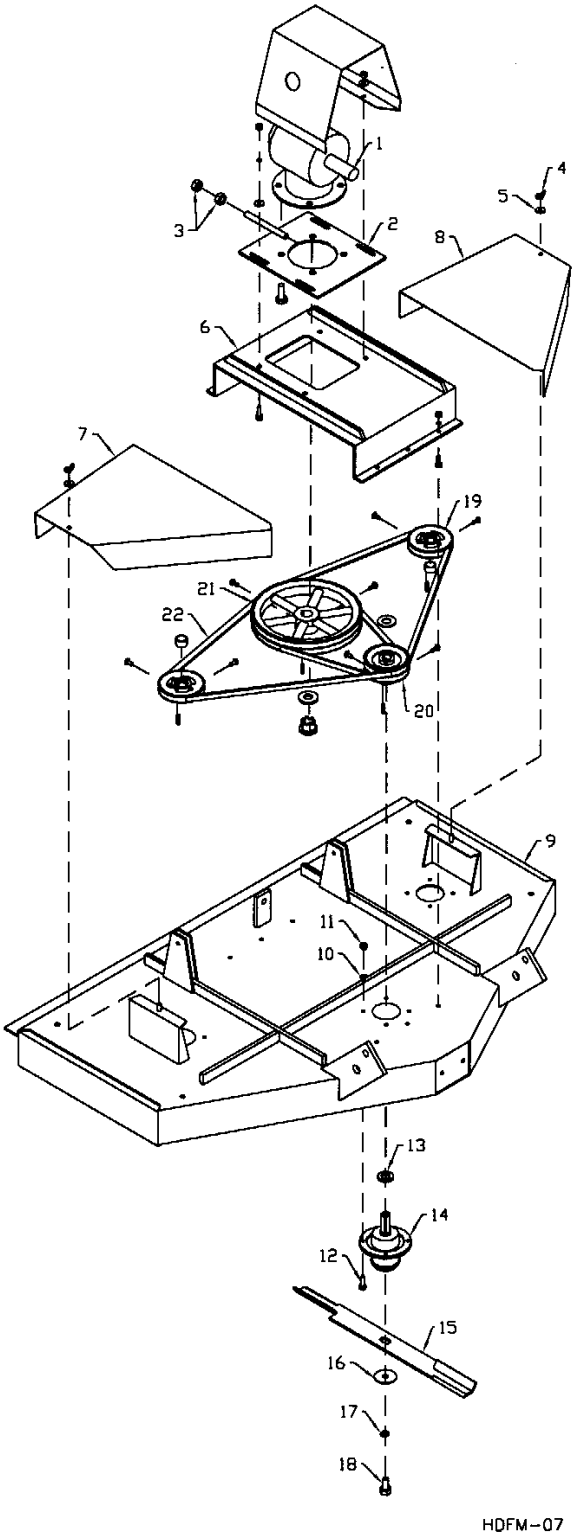
SPINDLE REPLACEMENT

OUTER SPINDLES: remove the belt guard on the side required (#7 & #8). Loosen the belts by first loosening the bolts holding the gearbox base plate (#2). Turn the 5/8" hex nut (#3) on the threaded rod on the base plate until there is enough slack in the belt to slip it off the spindle pulley. Remove the snap ring from the spindle shaft and pull off the pulley. Remove the blade from the spindle. The mower will have to be raised off the ground. Take off the four bolts holding on the spindle (#14). After replacing the spindle, be sure that the bolt holding the blade is tightened to 180 ft-lbs. Use a torque wrench. Re-tighten the belts so the center of the belt span will deflect about ½" with nominal pressure. Do not forget to tighten the bolts on the gearbox mounting plate.

CENTER SPINDLE: The procedure is the same as for the outer spindles as described above except for the following differences. Both belt guards (#7 & #8) must be removed. After slacking off the belt as described remove the gearbox mounting plate (#6) in one piece with the gearbox and large pulley. Remove the double pulley and replace the spindle. When you replace the belts make sure they are lined up as shown in the drawing. The upper grooves in the double pulleys go around the higher of the single pulleys. The lower grooves of the double pulley line up with the lower single pulley.

Drawing on next page.

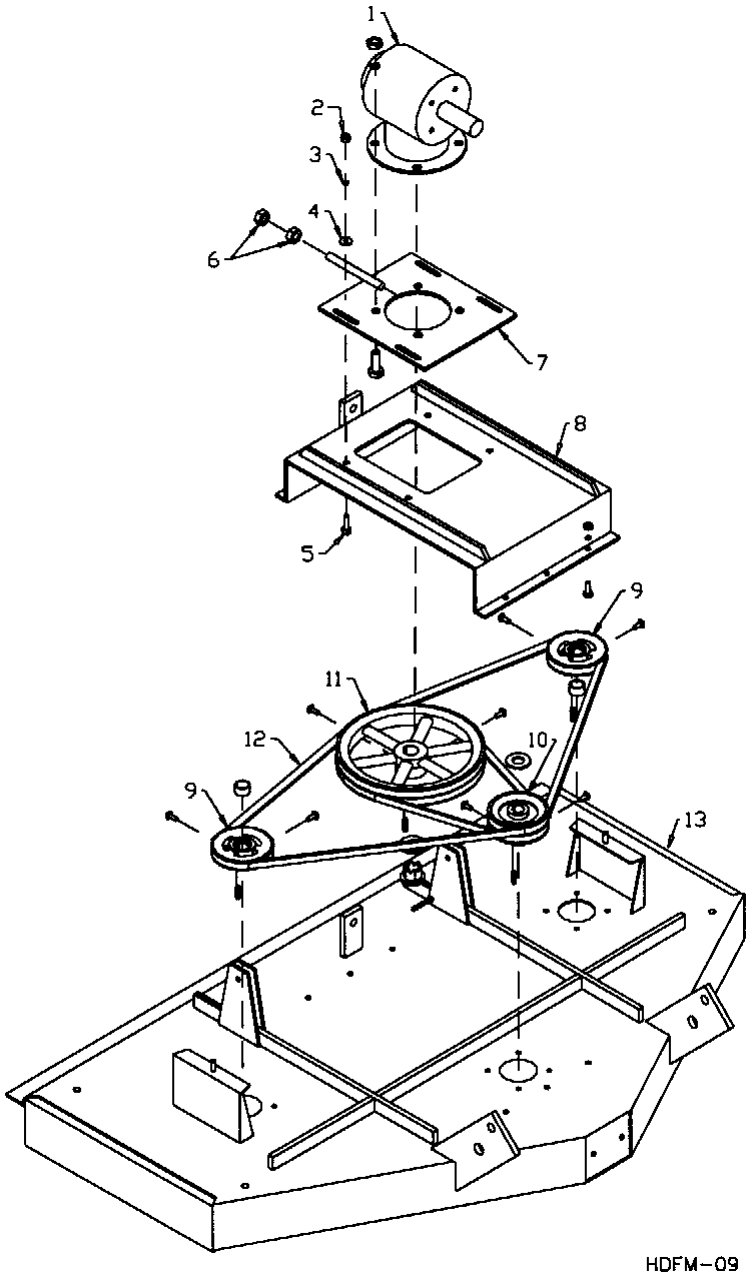
HEAVY DUTY MAINTENANCE – SPINDLE REPLACEMENT



SPINDLE REPLACMENT

ITEM	PART#	DESCRIPTION
1	912300158	Gearbox Assembly
2	980004200	Gearbox Base Plate
3	81676	5/8" Hex Nut (pl)
4	84217	3/8" Wing Nut (pl)
5	84000	3/8" BS Flat Washer (pl)
6	906343	Gearbox Mount Plate
7	906353	5' R.H. Belt Guard
	906355	6' R.H. Belt Guard
	902269	7' R.H. Belt Guard
8	906354	5' L.H. Belt Guard
	906356	6' L.H. Belt Guard
	902268	7' L.H. Belt Guard
9	902667	5' Rear Discharge Deck
	902668	6' Rear Discharge Deck
	902669	7' Rear Discharge Deck
10	81593	3/8" Lock Washer (pl)
11	81592	3/8" Hex Nut (pl)
12	86171	3/8" x 1 1/4" Hex Bolt (pl)
13	912301558	Snap Ring
14	966860	Spindle Assembly c/w Hardware
15	966273	21 3/4" Blade (5')
	966274	25 3/4" Blade (6')
	966167	29 3/4" Blade (7')
16	966188	2 1/2"OD x 21/32"ID Washer (pl) (Supp w/ Spndl)
17	966190	5/8" Lock Washer Extra Heavy (pl) (Supp w/ Spndl)
18	966189	5/8" x 1 1/4" Gr. 8 Hex Bolt Lck (pl) (Supp w/ Spndl)
19	904245	4 1/2" Single Sheave (Machined End Up) (5' & 6')
	904247	5 1/4" Single Sheave (Machined End Up) (7')
20	904246	4 1/2" Double Sheave (5' & 6')
	904248	5 1/4" Double Sheave (7')
21	966722	12" Double Sheave (1.25" Bore)
22	904251	B-70 Belts (5')
	973506	B-78 Belts (6')
	973248	B-87 Belts (7')

MOWER DECK BELT ADJUSTMENT



MOWER DECK BELT ADJUSTMENT

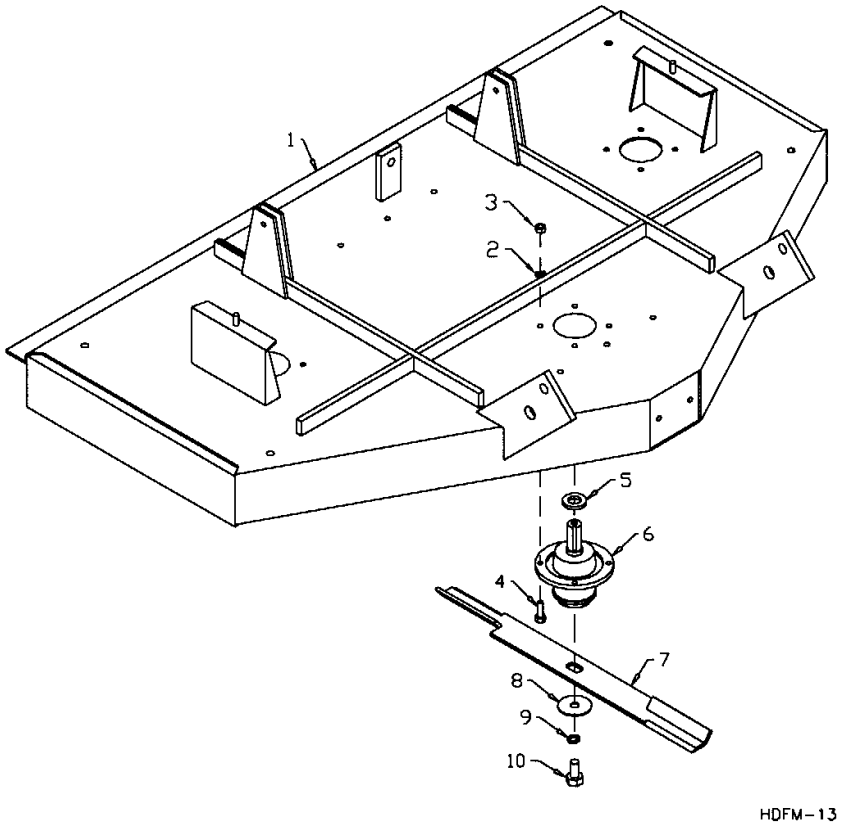
Start by removing both belt guards on the mower deck. Loosen the bolts holding the gearbox base plate (#6). Turn the 5/8” hex nuts (#5) on the threaded rod on the base plate until there is enough slack in the belts to slip them off the spindle pulleys. If the belts can be pulled off by sliding them under the large double pulley, no further disassembly is required. If this is difficult, you can create more space by removing the bolts holding on the gearbox mounting plate (#7) in one piece with the gearbox and large pulley. Lift up the mounting plate assembly slightly and slide the belts underneath. When you replace the belts, make sure they are lined up as shown in the drawing. The upper groove in the double pulleys goes around the higher of the single pulleys. The lower grooves of the double pulleys line up with the lower single pulley. Re-tighten the belts so the center of the belt span will deflect about ½” with nominal pressure. Do not forget to tighten the bolts on the gearbox mounting plate.

MOWER DECK BELT ADJUSTMENT

ITEM	PART#	DESCRIPTION
1	912300158	Gearbox Assembly
2	81592	3/8'' Hex Nut (pl)
3	81593	3/8'' Lock Washer (pl)
4	964001	7/16'' ID x 10 Ga Washer (pl)
5	86182	3/8'' x 1 1/4'' Carriage Bolt (pl)
6	81676	5/8'' Hex Nut (pl)
7	980004200	Gearbox Base Plate
8	906343	Gearbox Mount Plate
9	904245	4 1/2'' Single Sheave (Machined End Up) (5' & 6')
	904247	7'' Single Sheave (Machined End Up) (7')
10	904246	4 1/2'' Double Sheave (5' & 6')
	904248	5 1/4'' Double Sheave (7')
11	966722	12'' Double Pulley (1.25'' Bore)
12	904251	B-70 Belts (5')
	973506	B-78 Belts (6')
	973248	B-87 Belts (7')
13	902667	5' Rear Discharge Deck
	902668	6' Rear Discharge Deck
	902669	7' Rear Discharge Deck

BLADE REPLACEMENT

The mower deck must be securely blocked up or locked in place before doing a blade replacement. When replacing or grinding blades, all three blades must be replaced or reground at the same time to maintain the proper balance in the cutting unit. Use heavy leather gloves to handle the blades. It is easiest to remove the centre bolt if you anchor the blade solidly. There are devices sold at hardware stores for this purpose. Be sure to tighten the centre bolt and lock washer securely when replacing blades. Use a torque wrench to re-tighten spindle bolts to 180 ft.-lbs. The bolts have a patch of thread lock material pre-applied which will hold for up to five usages. If replacing the lock washer, use an extra heavy duty as supplied with the spindle.



BLADE REPLACMENT

ITEM	PART#	DESCRIPTION
1	902667	5' Rear Discharge Deck
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	902669	7' Rear Discharge Deck
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4	86171	3/8'' x 1 1/4'' Hex Bolt (pl)
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9	966190	5/8'' Lock Washer Extra Heavy (pl) (Supp w/ Spndl)
10	966189	5/8'' x 1'' Gr. 8 Hex Bolt Lock (pl) (Supp w/ Spndl)

SERVICE NOTES

A basic requirement for a steady top performance of the machine is proper and regular maintenance.

Use only original BUHLER parts.

Keep the machine in a functioning and efficient condition by completing the maintenance and lubrication work as listed in the maintenance checklist. If maintenance is due, no work is to be done with the machine. Discovered defects have to be carefully remedied at once.

ATTENTION! The maintenance of the machine should be done by trained personnel. Naturally, the machine has to be secured prior to beginning any maintenance work.

Intervals of Maintenance: The intervals are based on average working conditions and strain. The various intervals of maintenance depend on the time elapsed or service hours complete, which ever is reached first. The intervals given here are based on the quality of material specified in this manual.

EVERY 8 HOURS OF USE	**DATE**
grease PTO cross journals and shield bearings	_____
grease mower deck wheel spindles	_____
grease mower spindles	_____
EVERY 20 HOURS OF USE	
	_____
grease PTO cardan tubes and release collars	_____
EVERY 40 HOURS OF USE	
check oil level of gearbox	_____
YEARLY OR EVERY 200 HOURS OF USE	_____
	_____
repack mower wheel bearings	_____

HEAVY DUTY FINISHING MOWER BUNDLES

QUANTITY	BUNDLE NO.	DESCRIPTION
60” HEAVY DUTY FINISHING MOWER Y550RHD		
1	F0648	5’ Mower
4	F6651	Tires
72” HEAVY DUTY FINISHING MOWER Y650RHD		
1	F0649	6’ Mower
4	F6651	Tires
84” HEAVY DUTY FINISHING MOWER Y750RHD		
1	F0650	7’ Mower
4	F6651	Tires

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Printed in Canada