



DEINES MANUFACTURING CORPORATION

MODEL 60 SLI DECK SUPPLEMENT

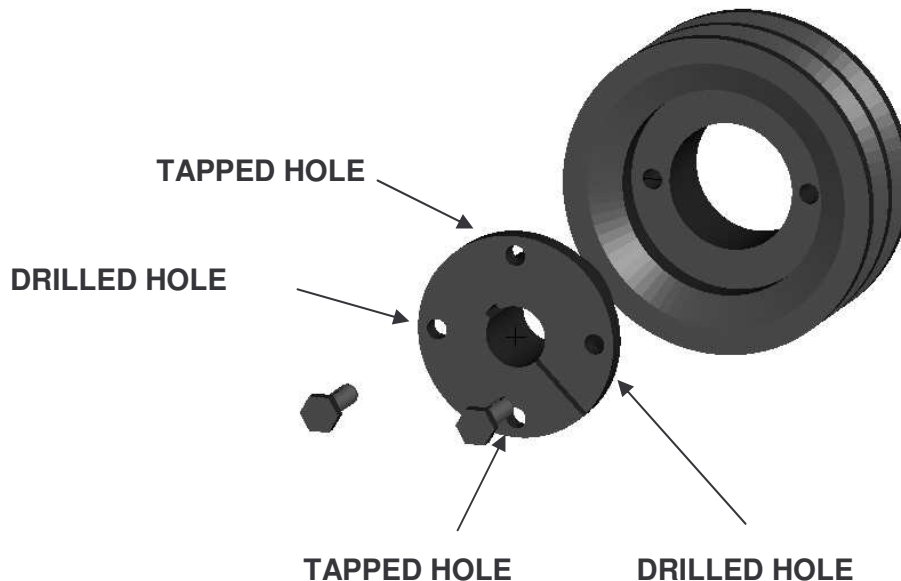
PARTS AND SERVICE MANUAL

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DECK MAINTENANCE FOR ALL MODELS

AREA OF MAINTENANCE	HOURS	NOTES:
Gearbox Superior	8	Check lubricant every 8 hours. A vented dipstick plug is located on the top of the gearbox. The oil level should be at the fill line on the dipstick tube. If the oil level is low add 80w90 gear oil. CAUTION! DO NOT OVERFILL. Tighten the dipstick finger tight. Over tightening this dipstick will damage your gearbox housing.
Blade Spindle Housing	40	Use one stroke of a lubricator with multipurpose grease. This prevents moisture from accumulating in the housing.
Castor Wheel Forks	8	Use two strokes of a lubricator with multi purpose grease.
Castor Wheel Stem (the pneumatic tire)	8	Use three strokes of a lubricator with multi purpose grease.
Castor Wheel Fork & Stem Adjustment	8	Check clip and pin to see that clip is secure to prevent fork or stem from falling out of the deck arm.

GEAR BOX PULLEY INSTALLATION AND REMOVAL



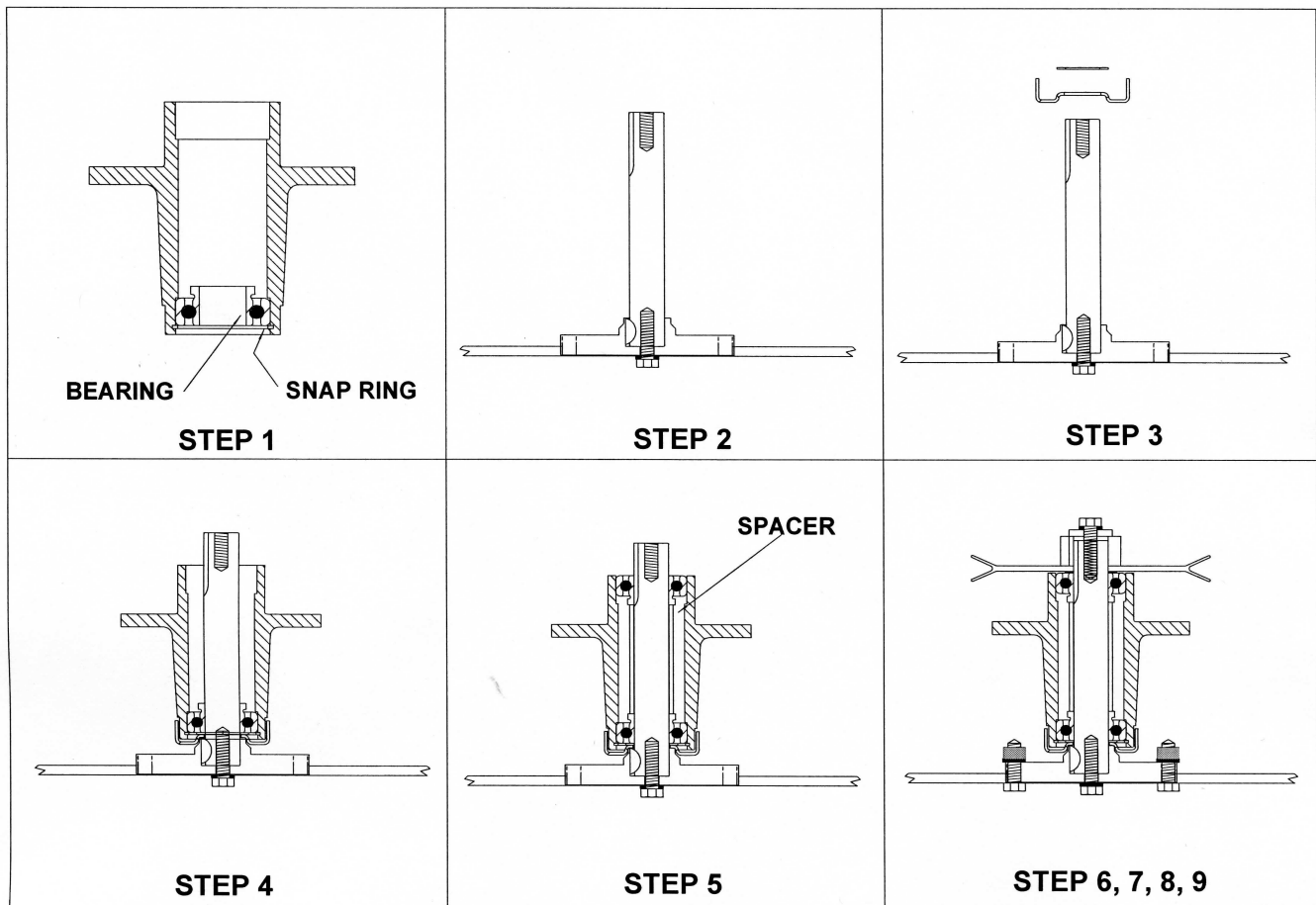
TO INSTALL GEARBOX PULLEY ON GEARBOX SHAFT:

1. Align drilled holes in bushing flange with tapped holes in sheave hub.
2. Insert capscrews through drilled holes in bushing flange and thread loosely in tapped holes in the sheave.
3. Position the assembly on the shaft and tighten the capscrews progressively and uniformly.
4. Torque specifications for a 1/4-20 grade 5 bolt is a maximum of 8 foot pounds. Do not over torque.

TO REMOVE:

1. Remove capscrews and thread in tapped holes in bushing flange. Tighten progressively until bushing is free from sheave taper.
2. Remove assembly from shaft.
3. **Do not** use a puller on this type of sheave.

SPINDLE ASSEMBLY INSTRUCTIONS

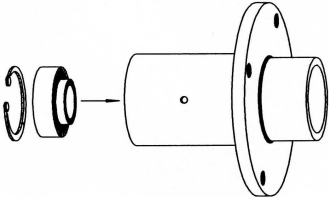
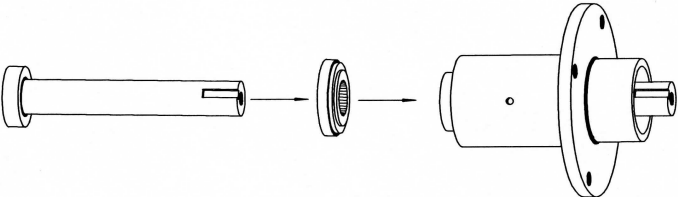
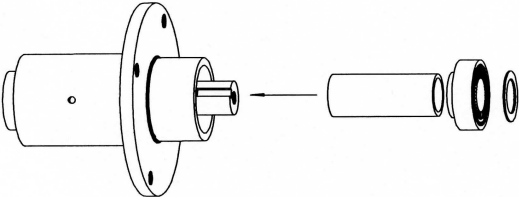
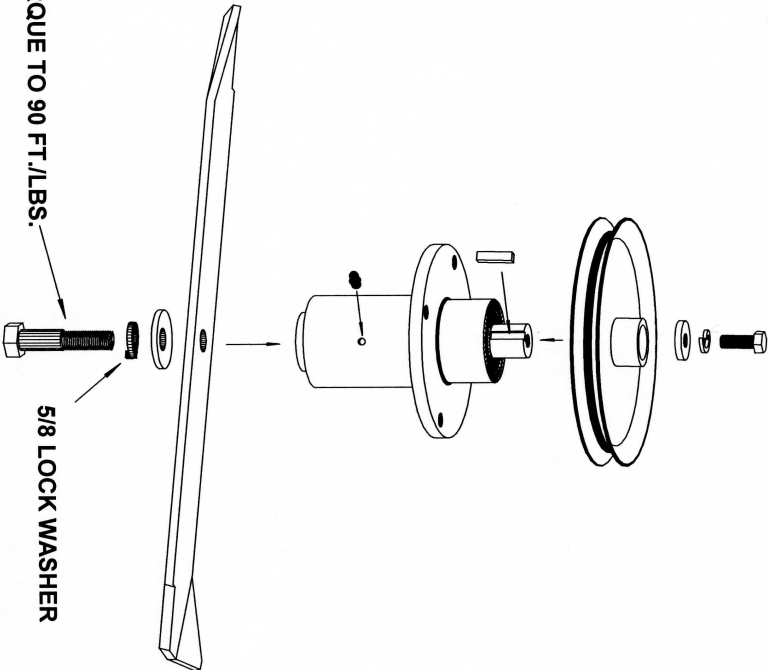


PRIOR TO SERIAL# Y1909

1. Place bottom bearing in housing and secure with snap ring.
2. Assemble shaft, blade saddle, woodruff key, blade, lock washer, and bolt. Tighten bolt and draw shaft into bottom of the blade saddle.
3. Place trash shield and machine bushing over shaft and against blade saddle.
4. Slide the above shaft assembly in bearing that is in the hub.
5. Slide spacer over the shaft and press the bearing into top side of the hub. Again be sure to place hub of bearing toward center of the hub.
6. Place machine bushing on shaft and against the bearing.
7. Slide the pulley onto the shaft using the square key.
8. With bolt, nut and washer secure the pulley to the shaft and clamp the rotating assembly together.
9. Install set screws in pulley using locktite. Install bolts, lock washers and nuts on the two remaining holes in the blade.

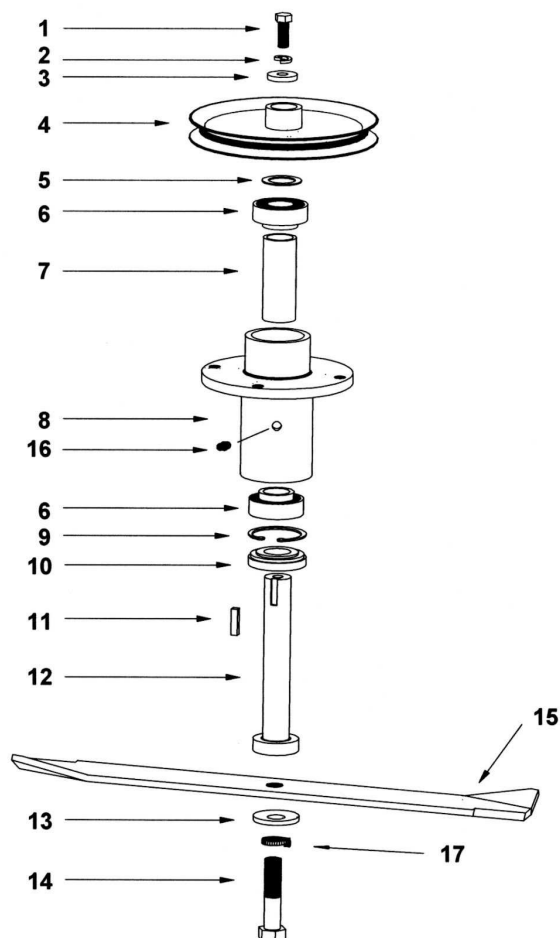
60 SPINDLE ASSEMBLY INSTRUCTIONS

AFTER SERIAL # Y1909

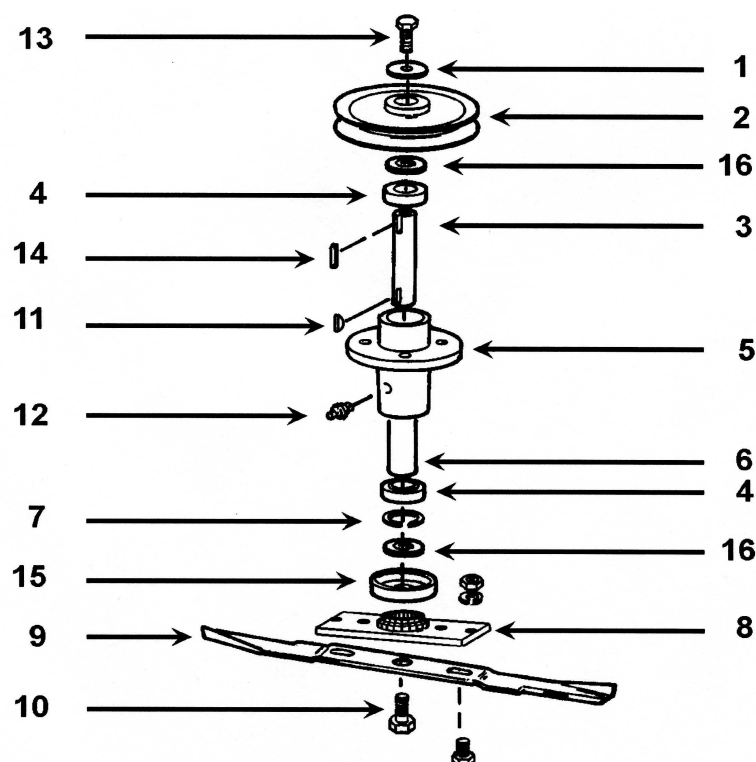
STEP 1	STEP 2	STEP 3	STEP 4
			
PRESS THE BOTTOM BEARING INTO THE HOUSING AND SECURE WITH THE SNAP RING	PLACE THE TRASH SHIELD WASHER OVER THE SHAFT AND SLIDE THE SHAFT INTO THE BEARING.	SLIDE THE SPACER OVER THE SHAFT AND PRESS THE BEARING ONTO THE SHAFT. THEN PLACE THE MACHINE BUSHING OVER THE SHAFT.	PLACE THE SQUARE KEY INTO THE KEY SEAT ON THE SHAFT AND SLIDE THE PULLEY ONTO THE SHAFT. SECURE THE PULLEY TO THE SHAFT WITH THE HEAVY WASHER, LOCK WASHER AND THE BOLT. BOLT THE BLADE TO THE BOTTOM OF THE SHAFT WITH THE 5/8" BOLT AND SPECIAL WASHER AND 5/8" LOCK WASHER.

60 SPINDLE ASSEMBLY

AFTER SERIAL Y1909

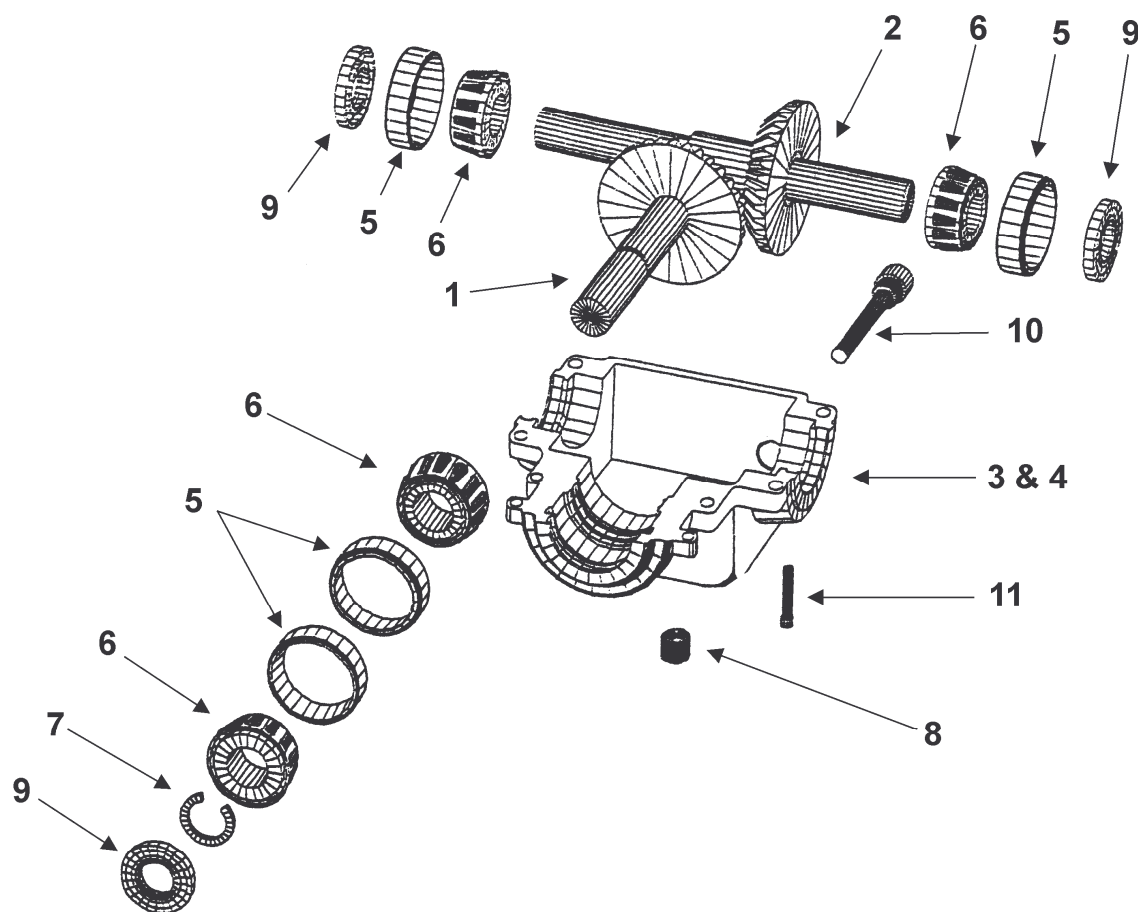


REF. #	PART NUMBER	DESCRIPTION	QUANTITY
1	300-466	3/8-24 X 1 HHCS	1
2	300-480	3/8 LOCK WASHER	1
3	300-173	WASHER	1
4	300-709	PULLEY	1
NOT SHOWN	300-437	SET SCREW	2
5	300-278	MACHINE BUSHING	1 OR MORE
6	400-363	BEARING	2
7	400-366	SPACER	1
8	400-464	SPINDLE HOUSING	1
9	400-257	INTERNAL SNAP RING	1
10	400-465	TRASH SHIELD WASHER	1
11	300-288	KEY	1
12	400-466	SPINDLE SHAFT	1
13	400-468	WASHER	1
14	400-469	5/8-18 X 2 3/4 BOLT	1
15	400-467	BLADE	1
16	300-212A	GREASE FITTING	1
17	300-517	5/8" LOCK WASHER	1
	400-470	COMPLETE SPINDLE, LESS BLADE	
	400-470-60	COMPLETE SPINDLE WITH BLADE	



60 SPINDLE ASSEMBLY - PRIOR TO SERIAL # Y1909

REF. #	PART #	DESCRIPTION	QUANTITY
1	300-173	WASHER	3
2	300-709	PULLEY	3
3	400-261	SHAFT	3
4	400-363	BEARING	6
5	400-362	HOUSING	3
		3/8 X 2 CARRIAGE BOLT	12
		3/8 LOCKWASHER	12
		3/8 FLATWASHER	12
6	400-366	SPACER	3
7	400-257	SNAP RING	3
8	300-745	SADDLE	3
		3/8 X 1 1/4 HHCS	6
		3/8 LOCKWASHER	6
		3/8 NUT	6
9	300-261R	BLADE	3
	300-468	3/8 X 1 1/4 HHCS	6
10	300-466	3/8 X 1 NF. HHCS	3
		3/8 LOCKWASHER	3
11	400-324	KEY	3
12	300-212A	GREASE FITTING	3
13	300-466	3/8 X 1 NF. HHCS	3
		3/8 LOCKWASHER	3
14	300-284	KEYSTOCK	3
15	300-607	SHIELD	3
16	300-278	WASHER	6



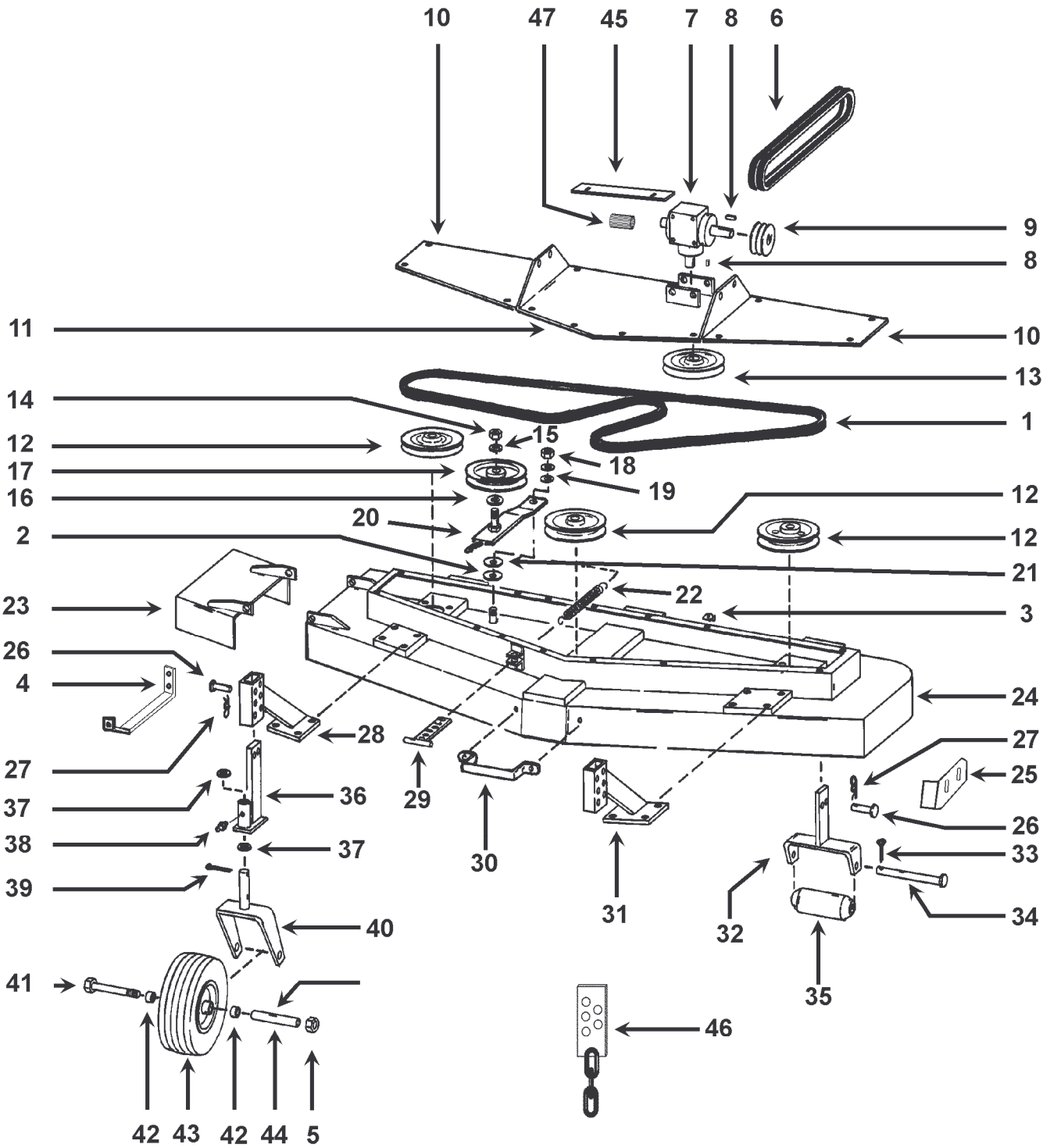
SUPERIOR GEARBOX PARTS EXPLOSION

MODEL # R100-9AAC-A0485

REF. NO.	PART NO.	DESCRIPTION	REQ'D.
1	R100-8B00-A0500	PINION SHAFT WITH GEAR	1
2	R100-8B00-A0502	CROSSHAFT WITH GEAR	1
3	R100-003M-A0427	CASTING WITH TAPPED HOLES	1
4	R100-004M-A0503	CASTING WITH THRU HOLES	1
5	300-227A	BEARING CUP	4
6	300-227	BEARING CONE	4
7	203293	RETAINING RING	1
8	200300	PIPE PLUG	4
9	109843	SEAL	4
10	IP3021	DIPSTICK	1
11	103125	SOCKET HEAD CAP SCREW	8

USE 80W90 MULTIPURPOSE OIL IN THE SUPERIOR GEARBOX.
USE THE DIPSTICK TO DETERMINE OIL FILL LEVEL.

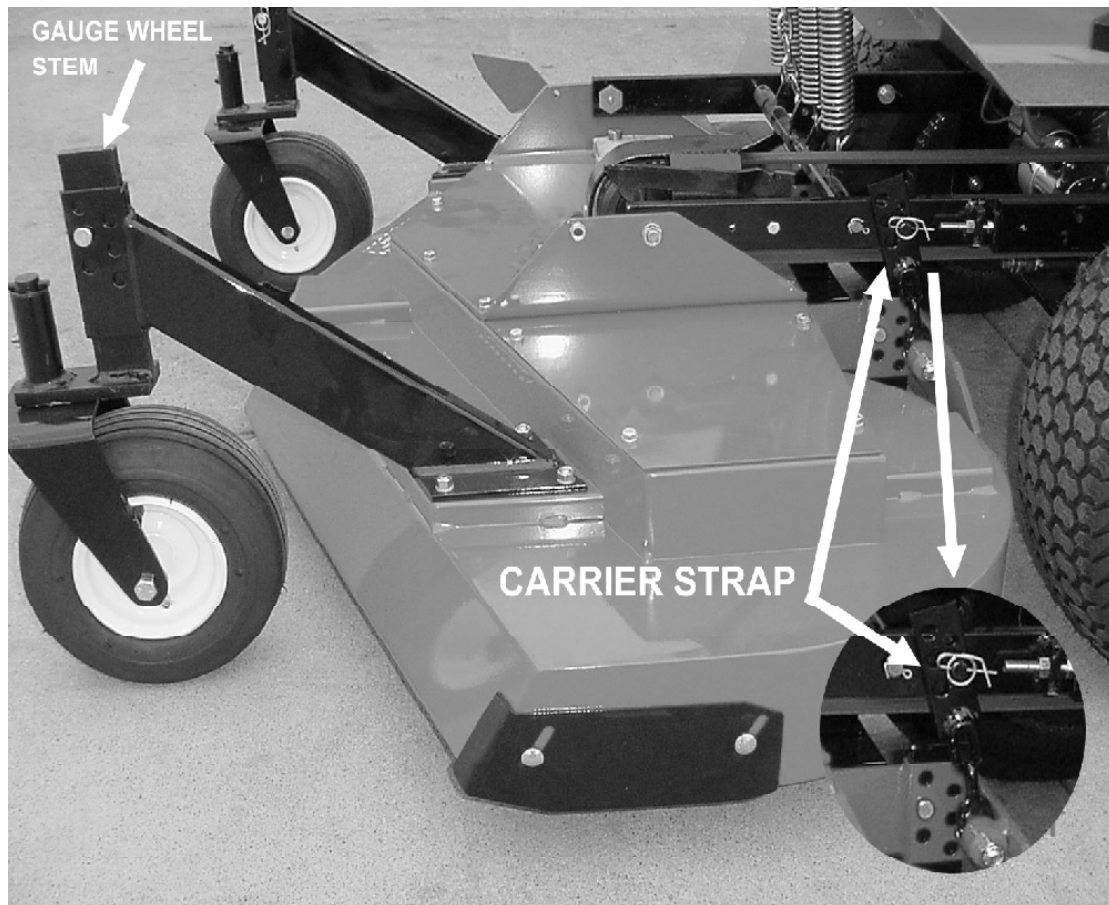
60 DECK ASSEMBLY



60 DECK ASSEMBLY

REF.	PART #	DESCRIPTION	QUANTITY
1	300-715	BELT	1
2	300-262	WASHER	1
3	300-455	FENDER NUT	16
4	100-320	RH SKID	1
		5/16 X 1 HHCS	3
		5/16 NUT	3
		5/16 LOCKWASHER	3
5	300-509	NUT	2
6	400-288	BELT	2
7	300-655	GEARBOX	1
		5/16 X 1 HHCS	4
		5/16 LOCKWASHER	4
8	300-289A	KEY	1
9	400-178	PULLEY W/HUB	1
10	400-951	SHIELD R&L	2
		5/16 X 3/4 HHCS	8
		5/16 LOCKWASHER	8
11	300-712	GEARBOX PLATE	1
		5/16 X 1 HHCS	6
		5/16 LOCKWASHER	8
12	300-709	PULLEY	3
		SETSCREW 5/16 X 5/16	6
13	300-716	PULLEY, GEARBOX	1
		SETSCREW 5/16 X 5/16	2
14	300-518	NUT	1
15	300-517	LOCKWASHER	1
16	300-525	WASHER	1
17	300-740	VEE-IDLER	1
18	300-511	NUT	1
19	400-121	WAVY WASHER	2
20	300-704	IDLER ARM	1
	<u>300-704A</u>	<u>"T" SERIAL NUMBER & UP</u>	
21	300-706	FRICTION WASHER	1
22	300-705	IDLER SPRING	1
23	300-710	CHUTE	1
		1/4 X 3/4 HHCS	3
		1/4 LOCKNUT	3
24	300-701	DECK HOUSING	1
25	100-335	LH SKID SHOE	1
		5/16 X 3/4 CARR. BOLT	2
		5/16 LOCKWASHER	2
		5/16 NUT	2
26	300-203	PIN	4
27	300-202	CLIP	6
28	300-331	RH CASTOR ARM	1
29	300-703	IDLER ADJUST	1
		1/4 X 1 HHCS	1
		1/4 LOCKNUT	1
30	400-998	HANDLE	1
		1/4 X 3/4 CARR. BOLT	2
		1/4 LOCKWASHER	2

REF.	PART #	DESCRIPTION	QUANTITY
		1/4 NUT	2
31	300-332	LH CASTOR ARM	1
		3/8 X 1 3/4 CAR. BOLT	8
		3/8 LOCKWASHER	8
		3/8 NUT	8
32	300-243	ROLLER BRKT.	2
33	300-279	COTTER KEY	2
34	300-201	ROLLER PIN	2
35	100-132	ROLLER	2
36	300-395	CASTOR STEM	2
37	300-195A	THICK SHIM	2
38	300-212	GREASE FITTING	2
39	200-238	ROLLER PIN	2
40	300-391	FORK	2
41	300-264	AXLE	2
42	400-234	BEARING	4
43	300-247	WHEEL & TIRE	2
	400-212A	TIRE ONLY	
	400-233	WHEEL ONLY	
44	300-117	SPACER	2
45	100-479	WEAR PLATE	1
		5/16 X 1 1/4 HHCS	2
		5/16 FLAT WASHER	2
		5/16 LOCKWASHER	2
46	400-947	CARRIER STRAP	2
47	400-918	PLASTIC SLEEVE	1
	<u>NOT SHOWN</u>		
	700-172	SHOULDER BOLT	
		3/8 - 16 NUT	
		3/8 LOCKWASHER	
	400-727	OPERATION DECAL	1
	400-728	BLADE DECAL	2
	400-786	BELT DECAL	1



ADJUSTING DECK GAUGE WHEELS, REAR ROLLERS AND CHAIN HANGERS

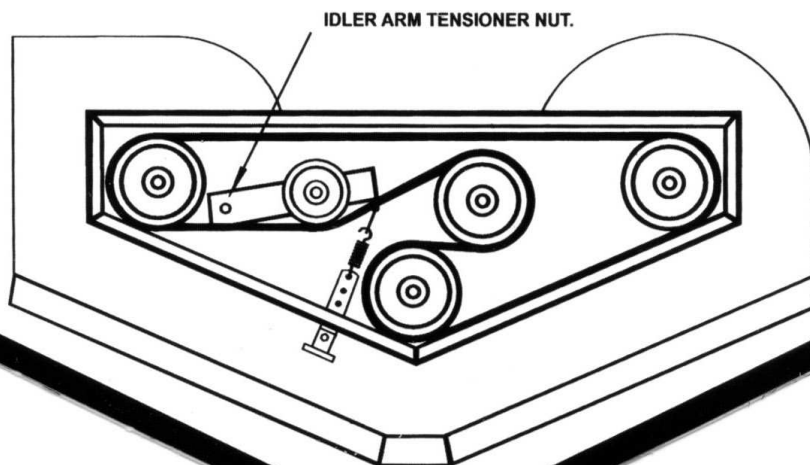
THE CUTTING HEIGHT OF THE MOWER IS DETERMINED BY THE POSITION OF THE GAUGE WHEELS AND THE REAR ROLLER BRACKET ON THE MOWER DECK. THE MOWER DECK IS A FULL FLOATING TYPE AND WILL CLOSELY FOLLOW THE CONTOURS OF THE GROUND WHEN USING THE GAUGE WHEELS AND REAR ROLLERS FOR THE HEIGHT OF VARIOUS CUTTING POSITIONS. ADJUSTMENT IS DONE BY REMOVING THE GAUGE PIN AND CLIP, MOVING THE STEM OF THE FRONT FORK OR REAR ROLLER BRACKET UP OR DOWN TO THE DESIRED HEIGHT. BE SURE TO HAVE ALL FOUR STEMS IN THE SAME ADJUSTMENT.

ON THE MODELS 60, AND 72 DECKS THERE IS CARRIER STRAP LOCATED AT THE REAR OF THE DECK. IT IS VERY IMPORTANT TO ADJUST THE STRAP AT THE SAME TIME THE FRONT CASTOR WHEEL FORK IS ADJUSTED. KEEP THE REAR ROLLERS APPROXIMATELY 1/8" TO 1/4" ABOVE THE GROUND BY PLACING THE PIN ON THE PUSHARM INTO THE PROPER HOLE ON THE CARRIER STRAP IN ORDER TO RAISE OR LOWER THE REAR OF THE DECK TO ATTAIN THE DESIRED RESULT.

THE OPTIMUM SETTING IS WHERE THE REAR OF THE DECK IS JUST SLIGHTLY HIGHER THAN THE FRONT OF THE DECK. THIS WAY THE BLADE HAS TO CUT THE GRASS ONLY ONCE.

BELT ADJUSTMENT INSTRUCTIONS

1. YOUR MOWER WILL SHIP TO YOU ADJUSTED TO THE FIRST HOLE AS SHOWN.
2. AFTER 1 HOURS OPERATION CHECK THE BELT TENSION. THE SPRING TENSION SHOULD BE ADJUSTED SO THAT THE SPRING IS EXTENDED ONE INCH.
3. CHECK BELT PERIODICALLY TO INSURE PROPER BELT TENSION.
4. DO NOT OVER TENSION.
5. KEEP THE INSIDE OF THE BELT HOUSING CLEAN AND FREE OF WATER.
6. KEEP THE IDLER ARM TENSIONER NUT JUST TIGHT ENOUGH TO DAMPEN THE IDLER ARM. DO NOT OVER TENSION.



DEINES MANUFACTURING CORP. LIMITED WARRANTY

Deines Manufacturing Corp., P.O. Box 266, Ransom, KS. 67572, proudly warrants to the original purchaser all products and components manufactured by Deines to be free of defects in material and workmanship.

Deines Manufacturing Corp. does not warrant trade accessory items (batteries, engines, generators, transmission, gear boxes, etc.) which are warranted by their respective manufacturers.

Deines Manufacturing Corp. will, at its option, replace or repair without charge to the purchaser for materials or labor any component or product manufactured by Deines found upon examination by any Deines Authorized Distributor or Dealer or by Deines at its plant in Ransom, KS. to be defective in material and/or workmanship.

To obtain warranty service the component, or product must be returned to an Authorized Distributor or Dealer or to the Deines Plant, TRANSPORTATION PREPAID, accompanied by a letter stating the warranty claim. Upon receipt of a Warranty Claim Letter, Deines will within ten business days commence performance of its obligations under this Warranty.

This Warranty will commence upon the date of delivery and will extend as follows: one year for Industrial and/or Commercial applications; one year for Residential applications.

THIS WARRANTY WILL NOT TAKE EFFECT unless the Warranty Registration Card is signed and returned to the Deines Manufacturing Corp. within ten days from delivery date.

This warranty is void if the component or product is modified in any manner which Deines concludes after inspection adversely affects the reliability of the component or product; if the component or product has been repaired or serviced by anyone other than an Authorized Distributor or Dealer or the Deines Plant; if the component or product is damaged because not operated in accordance with application with applicable instructions or because of accident, misuse or abuse; if the component or product is damaged because not properly maintained as set forth in applicable instructions.

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The sale of this product is not subject to any implied warranties of merchantability and there are no warranties which extend beyond the description of the face hereof.

This warranty gives you specific legal rights. You also have implied warranty rights. In the event of a problem with this warranty service or performance, you may be able to go to a small claims court, a State Court, or a Federal District Court.