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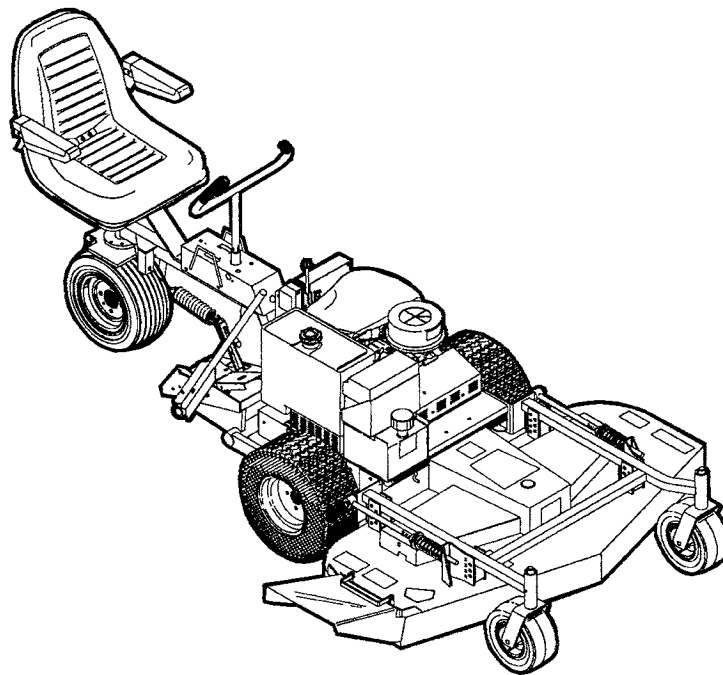
P/N-128178 REV00 2/94

RANSOMES

3100 SERIES MOWERS

MODEL 954800 - 48" CUTTERDECK

MODEL 956105 - 60" CUTTERDECK



PARTS MANUAL
COMMERCIAL MOWER

FOR USE WITH OPERATORS MANUAL 128177



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3100 SERIES

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IMPORTANT! READ!

You have purchased a first class mower and the useful life you obtain from your machine depends to a large extent on proper maintenance and operation. Before attempting to use your mower, read your Operators Manual carefully. Make yourself familiar with the operation, controls, adjustments, lubrication and maintenance sections. **All** references to left and right are from operators position.

Do not use teflon tape when replacing hydraulic pipe fittings. If sealant is required, use liquid.

See manual 128176 for power unit parts.

TORQUES

RECOMMENDED TORQUES FOR THESE GRADES OF FASTENERS

AMERICAN	NATIONAL	STANDARD	FASTENERS
SIZE	UNITS	GRADE 5	GRADE 8
6-32	in-lbs (Nm)	20 (2.3)	-
8-32	in-lbs (Nm)	24 (2.7)	30 (3.4)
10-24	in-lbs (Nm)	35 (4.0)	45 (5.1)
10-32	in-lbs (Nm)	40 (4.5)	50 (5.7)
12-24	in-lbs (Nm)	50 (5.7)	65 (7.3)
1/4-20	in-lbs (Nm)	95 (10.7)	125 (14.1)
1/4-28	in-lbs (Nm)	95 (10.7)	150 (17.0)
5/16-18	in-lbs (Nm)	200 (22.6)	270 (30.5)
5/16-24	in-lbs (Nm)	240 (27.1)	300 (33.9)
3/8-16	ft-lbs (Nm)	30 (40.7)	40 (54.2)
3/8-24	ft-lbs (Nm)	35 (47.5)	45 (61.0)
7/16-14	ft-lbs (Nm)	50 (67.8)	65 (88.1)
7/16-20	ft-lbs (Nm)	55 (74.6)	70 (94.9)
1/2-13	ft-lbs (Nm)	75 (101.7)	100 (135.6)
1/2-20	ft-lbs (Nm)	85 (115.3)	110 (149.2)
9/16-12	ft-lbs (Nm)	105 (142.4)	135 (183.1)
9/16-18	ft-lbs (Nm)	115 (155.9)	150 (203.4)
5/8-11	ft-lbs (Nm)	150 (203.4)	195 (264.4)
5/8-18	ft-lbs (Nm)	160 (217.0)	210 (284.8)
3/4-10	ft-lbs (Nm)	170 (230.5)	220 (298.3)
3/4-16	ft-lbs (Nm)	175 (237.3)	225 (305.1)
7/8-14	ft-lbs (Nm)	300 (406.8)	400 (542.4)

USE THESE SPECIFICATIONS UNLESS OTHERWISE NOTED.

SPECIFIC TORQUES:

BLADE BOLT: 125 FT-LBS

CLUTCH BOLT: 50 FT-LBS

STEER/REAR WHEEL AXLE NUT: 150-175 FT-LBS

RANSOMES INC. USES GRADE 5 BOLTS AS STANDARD, UNLESS OTHERWISE NOTED.

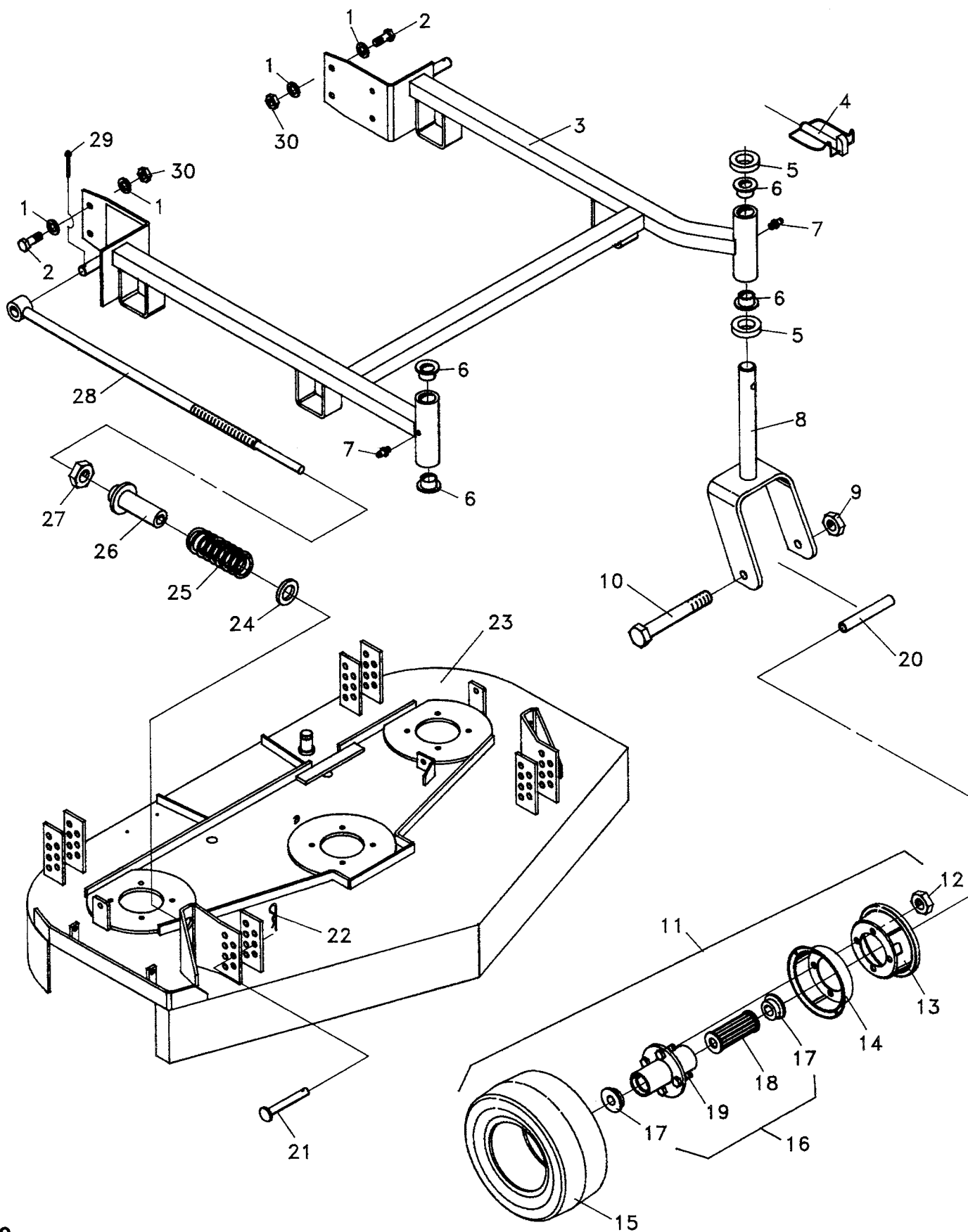
METRIC FASTENERS

SIZE	UNITS	4.8	5.8	8.8	10.9	12.9	Noncritical Fasteners into Aluminum
M4	Nm (in-lbs)	1.2 (11)	1.7 (15)	2.9 (26)	4.1 (36)	5.0 (44)	2.0 (18)
M5	Nm (in-lbs)	2.5 (22)	3.2 (28)	5.8 (51)	8.1 (72)	9.7 (86)	4.0 (35)
M6	Nm (in-lbs)	4.3 (38)	5.7 (50)	9.9 (88)	14.0 (124)	16.5 (146)	6.8 (60)
M8	Nm (in-lbs)	10.5 (93)	13.6 (120)	24.4 (216)	33.9 (300)	40.7 (360)	17.0 (150)
M10	Nm (ft-lbs)	21.7 (16)	27.1 (20)	47.5 (35)	66.4 (49)	81.4 (60)	33.9 (25)
M12	Nm (ft-lbs)	36.6 (27)	47.5 (35)	82.7 (61)	116.6 (86)	139.7 (103)	61.0 (45)
M14	Nm (ft-lbs)	58.3 (43)	76.4 (55)	131.5 (97)	184.4 (136)	219.7 (162)	94.9 (70)

CRADLE & CASTER ASSEMBLY

FIGURE 1A

3100 SERIES DECKS



**RANSOMES**

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CRADLE & CASTER ASSEMBLY**FIGURE 1A****3100 SERIES DECKS**

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
1- 1.	64163-31	WASHER	16				
1- 2.	64123-50	BLT-HEX 3/8-16 X 1	8				
1- 3.	*126026	S CRADLE W/BEARINGS	1				
		(USE 126177 ON 48" CUTTER DECKS)					
1- 4.	64173-04	QUICK PIN	2				
1- 5.	64163-07	SPACER	4				
1- 6.	48053-07	BEARING, FLANGED	4				
1- 7.	85010N	ZERK	2				
1- 8.	36526	S CASTER YOKE W/LAB	2				
1- 9.	64151-7	1/2-13 HEX LOCK NUT	2				
1-10.	64123-166	BLT-HEX 1/2-13 X 5-1/2	2				
1-11.	38510	WHEEL ASSY 9 X 3.5-4.0	4				
		(INCLUDES ITEMS 12-16, QTY'S LISTED)					
1-12.	64151-24	5/16-24 CL HEX NUT	4				
1-13.	38507	S WHL HALF, VALVE SIDE	1				
1-14.	38506	S WHEEL HALF	1				
1-15.	38504	S TIRE & TUBE 9 X 3.5-4.0	1				
	38505	S TUBE	1				
1-16.	38508	S HUB ASSLY	1				
		(INCLUDES ITEMS 17-19, QTY'S LISTED)					
1-17.	38274	S BEARING RETAINER	2				
1-18.	38273	S ROLLER BEARING	1				
1-19.	64123-01	BLT-HEX 5/16-24 X 3/4	4				
1-20.	43180	BUSHING	2				
1-21.	64188-16	PIN, CLEVIS 3/8	4				
1-22.	64168-1	HAIRPIN COTTER	4				
1-23.	126062	S CUTTER DECK W/LAB	1				
		(USE 126190 WITH 48" MODELS)					
1-24.	64163-18	WASHER	2				
1-25.	128007	SPRING, COMPRESSION	2				
1-26.	126019-02	SPRING GUIDE-RH	1				
	** 126019-01	SPRING GUIDE-LH	1				
1-27.	64025-21	NUT-HEX 5/8-11	2				
1-28.	126012	SPRING ARM	2				
		(USE 126012-01 ON 48" CUTTER DECKS)					
1-29.	64140-1	COTTER PIN, 1/8 X 1	2				
1-30.	64151-18	3/8-16 CL HEX NUT	8				

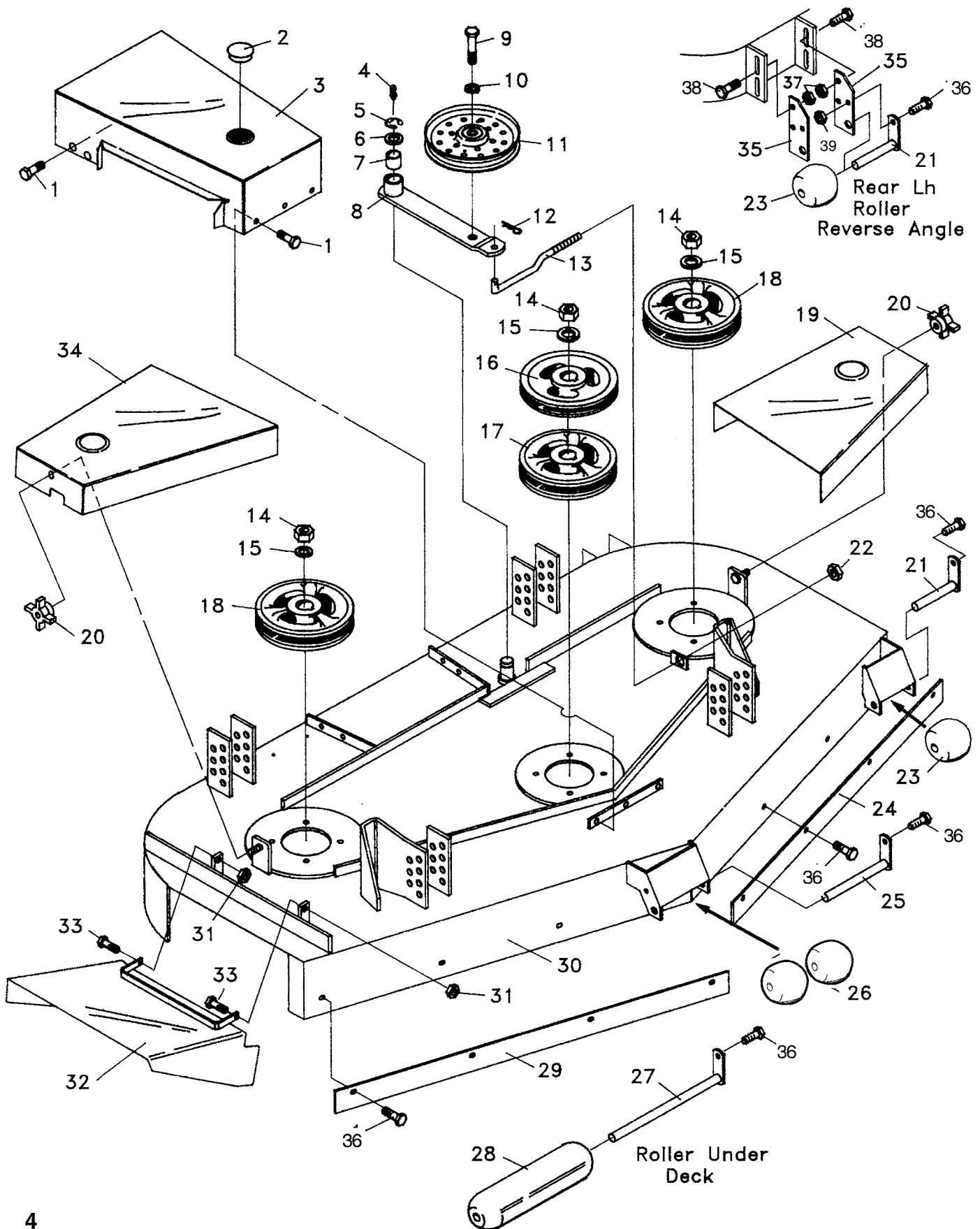
* INCLUDES ITEMS 6 & 7

** NOT ILLUSTRATED

61" CUTTER DECK ASSEMBLY

FIGURE 2A

3100 SERIES DECKS



**RANSOMES**

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**61" CUTTER DECK ASSEMBLY
FIGURE 2A****3100 SERIES DECKS**

ITEM	PART No.	DESCRIPTION	QTY
2- 1.	64139-13	BLT-WLF 5/16-18X1/2	6
2- 2.	48256	HOLE PLUG	1
2- 3.	126063	S CENTER BELT COVER	1
2- 4.	35027N	ZERK	1
2- 5.	64221-04	E-RING .875	1
2- 6.	64163-65	WASHER	1
2- 7.	65103A	BEARING BUSHING	1
2- 8.	126016	IDLER ARM	1
	(INCLUDES ITEM 7)		
2- 9.	64123-05	BLT-HEX 1/2-20 X 1-1/2	1
2-10.	64006-05	1/2 HELICAL LCKWSHER	1
2-11.	128169	PULLEY IDLER	1
2-12.	64168-2	HAIRPIN COTTER	1
2-13.	123002	TENSION ROD	1
2-14.	64025-16	NUT HEX 5/8-18	3
2-15.	64006-04	5/8 HELICAL LCKWSHR	3
2-16.	128011	PULLEY DECK DRIVE	1
2-17.	31008B	PULLEY	1
2-18.	31012A	SPINDLE PULLEY	2
2-19.	126002	LH BELT COVER	1
2-20.	38524	KNOB 4 PRONG	2
2-21.	46335	SHAFT AMS, ROLLER	2
2-22.	64229-03	LOCK NUT NYLON 3/8	1
2-23.	2198153	ROLLER	2
2-24.	42040-2A	FRONT GUARD LH	1
2-25.	146067	WLDMT, PIN SHAFT	1
2-26.	2198153	ROLLER	2
2-27.	46295	WLDMT, PIN SHAFT	1
2-28.	48131	ROLLER 6"	1
2-29.	42040-1A	FRONT GUARD RH	1
2-30.	126062	S CUTTER DECK W/LAB	1
2-31.	64229-02	LOCK NUT NYLON 5/16	2
2-32.	46461	CHUTE	1
2-33.	64139-08	BLT-WLF 5/16-18 X 1	2
2-34.	126001	WLDMT RH BELT COV	1
2-35.	142088	BRACKET-ROLLER	2
2-36.	64139-08	NUT-WLF 5/16-18 X 3/4	12
2-37.	64141-4	NUT-WLF 3/8-16	4
2-38.	64123-15	3/8-16 X 3/4	4
2-39.	64141-6	NUT-WLF 5/16-18	11

FIGURE 3A

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The logo graphic consists of a black square containing three white, curved, parallel lines that sweep upwards and to the right, resembling a stylized 'R' or a plough blade. The word 'RANSOMES' is printed in white capital letters at the top of the square.

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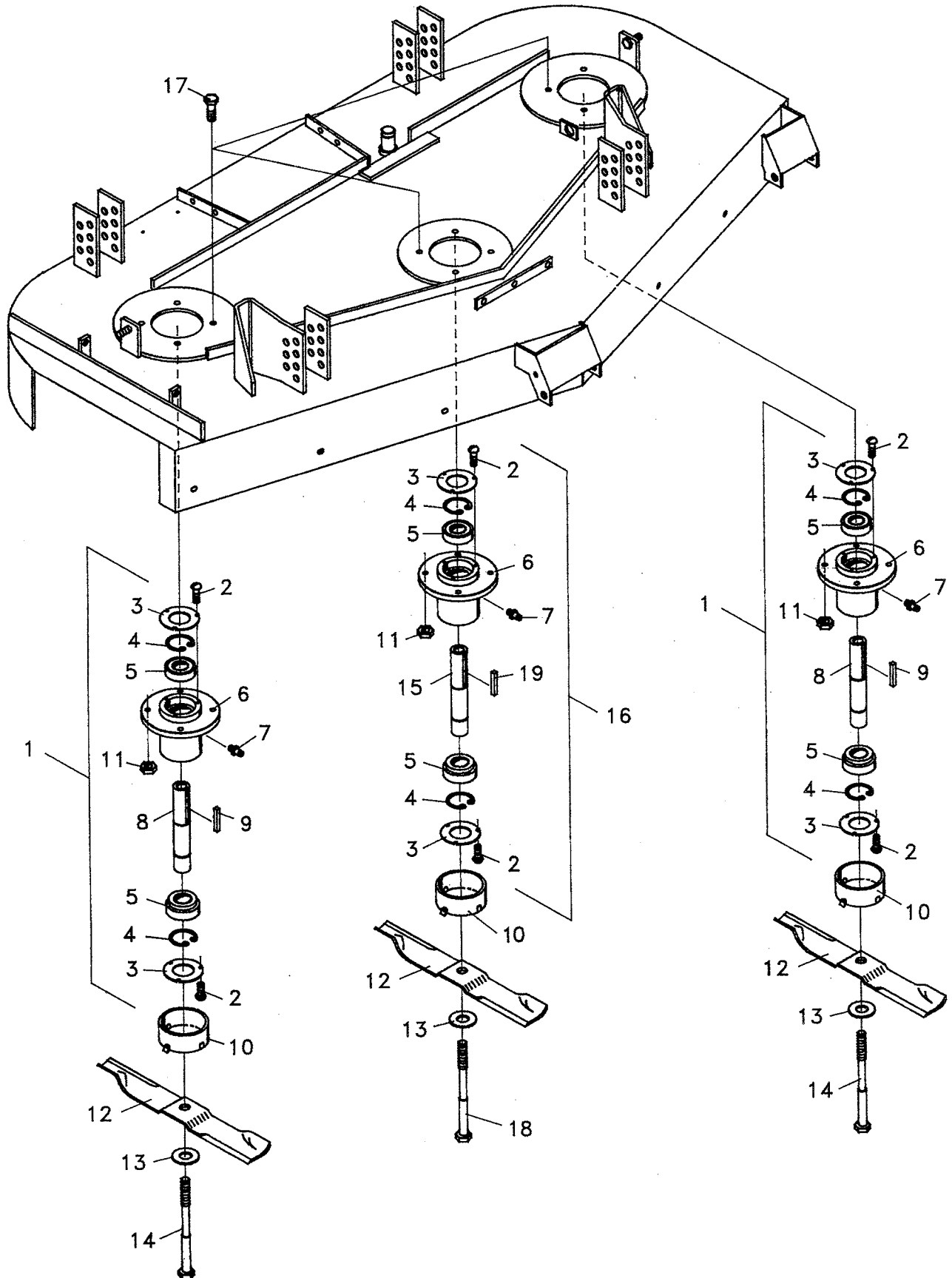
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**48" CUTTER DECK ASSEMBLY
FIGURE 3A****3100 SERIES DECKS**

ITEM	PART No.	DESCRIPTION	QTY
3- 1.	48256	PLUG-HOLE	1
3- 2.	126191	S CNTR BELT COV W/LAB	1
3- 3.	64139-13	BLT-WLF 5/16-18 X 1/2	4
3- 4.	126016	IDLER ARM	1
	(INCLUDES ITEM 5)		
3- 5.	65103A	BEARING BUSHING	1
3- 6.	64163-65	WASHER	1
3- 7.	64221-04	E-RING .875	1
3- 8.	35027N	ZERK	1
3- 9.	64123-05	BLT-HEX 1/2-20 X 1-1/2	1
3-10.	64006-05	LOCKWSHR HELICAL 1/2	1
3-11.	123002	TENSION ROD	1
3-12.	64168-2	HAIRPIN COTTER	1
3-13.	128169	PULLEY IDLER	1
3-14.	31008B	PULLEY	1
3-15.	128011	PULLEY, DECK DRIVE	1
3-16.	64006-04	LOCKWSHR HELICAL 5/8	3
3-17.	64025-16	NT-HEX 5/8-18	3
3-18.	126173	LH BELT COVER	1
3-19.	38524	KNOB 4 PRONG	2
3-20.	31011B	SPINDLE PULLEY	2
3-21.	64229-03	LOCKNUT NYLON 3/8-16	1
3-22.	126190	S 48" CUTTR DK W/LAB	1
3-23.	64229-02	LOCKNUT NYLON 5/16-18	2
3-24.	36490	CHUTE	1
3-25.	64139-68	BLT-HEX 5/16-18 X 1	2
3-26.	126172	RH BELT COVER	1

SPINDLE ASSEMBLY FIGURE 4A

3100 SERIES DECKS



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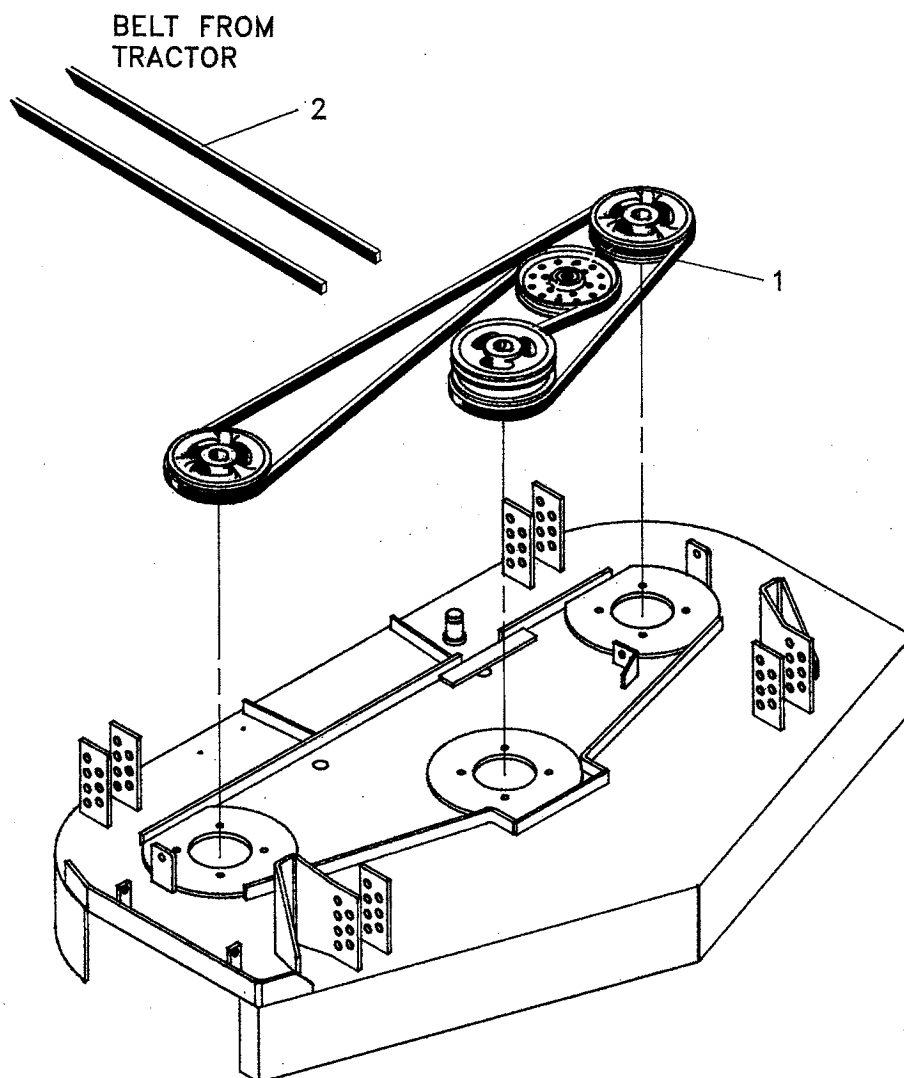
**SPINDLE ASSEMBLY
FIGURE 4A****3100 SERIES DECKS**

ITEM	PART No.	DESCRIPTION	QTY
4- 1.	126015-01	SPINDLE ASSEMBLY (INCLUDES ITEMS 2 THRU 8)	2
4- 2.	64152-35	SCREW 10-24 X 1/2 SEMS	18
4- 3.	32044A	SPINDLE CAP	6
4- 4.	64144-12	SNAP RING	6
4- 5.	35008N	BEARING	6
4- 6.	31002B	SPINDLE HOUSING	3
4- 7.	35042A	ZERK	3
4- 8.	113057-04	SPINDLE SHAFT	2
4- 9.	64174-01	KEY	2
4-10.	112152	CUP, SPINDLE BEARING	3
4-11.	64141-6	NUT-WLF 5/16-18	12
4-12.	112111-03	BLADE (USE 112111-01 ON 48" CUTTER DECKS)	3
4-13.	64163-01	WASHER	3
4-14.	33049-03	BOLT-BLADE	2
4-15.	33240	SHAFT, SPINDLE	1
4-16.	126197	SPINDLE ASSEMBLY (INCLUDES ITEMS 2 THRU 7)	1 1
4-17.	64123-47	BLT-HEX 5/16-18 X 1-1/4	12
4-18.	64123-77	BLT-HEX 5/8 -18 X 8-1/2	1
4-19.	64174-03	KEY	1

BELTS & ACCESSORIES

FIGURE 5A

3100 SERIES DECKS





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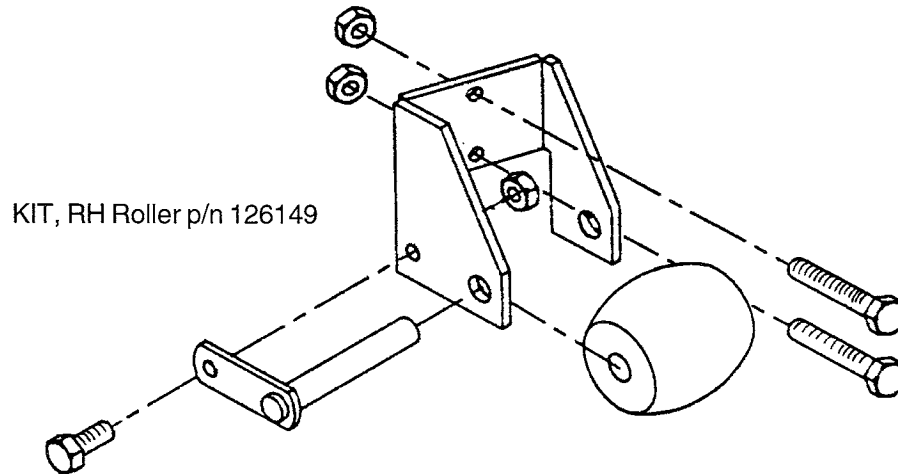
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BELTS & ACCESSORIES

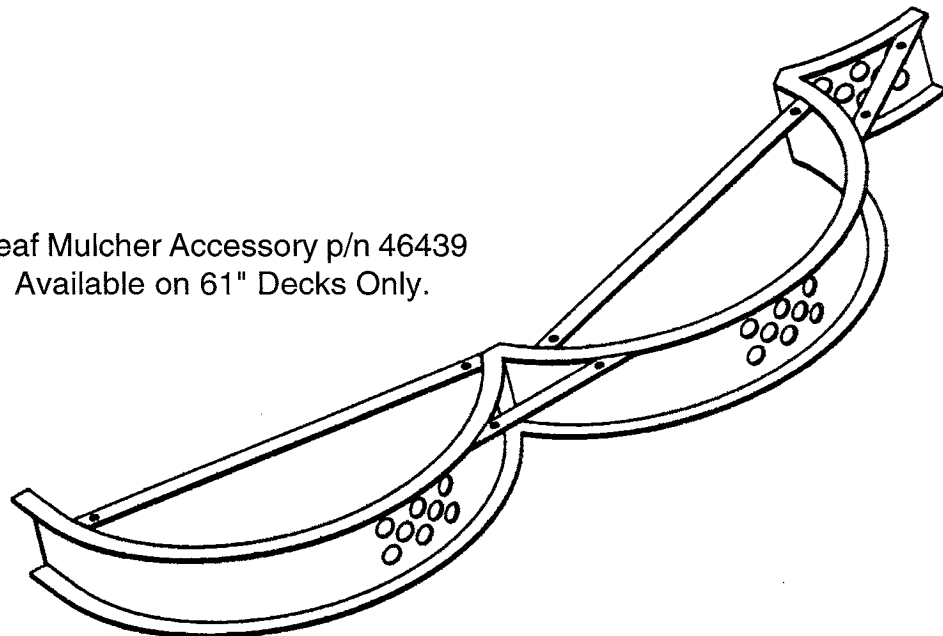
FIGURE 5A

3100 SERIES DECKS

ITEM	PART No.	DESCRIPTION	QTY
5- 1.	128003	BELT (USE 128110 ON 48" CUTTER DECKS)	1
5- 2.	128004	BELT (USE 128111 ON 48" MODELS)	1
5- 3.	126149	KIT, RIGHT ROLLER INCLUDES THE FOLLOWING PARTS:	1
	46335	SHAFT ASM-ROLLER	1
	46387	WLDMT RH ROLLER SUPT	1
	48466	ROLLER	1
	64123-54	BLT-HEX 5/16-18 X 3/4	1
	64123-56	BLT-HEX 5/16-18 X 2	2
	64141-6	NUT-WLF5/16-18	1
	64151-15	5/16-18 CL HEX NUT	2



Leaf Mulcher Accessory p/n 46439
Available on 61" Decks Only.



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RANSOMES INC.
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JOHNSON CREEK, WI 53038