



BOB-CAT[®]

200 SERIES

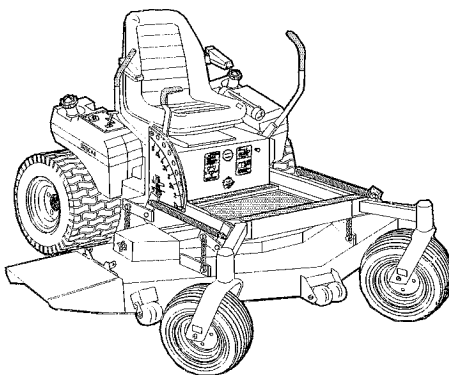
ZERO TURN RADIUS

Models Numbers:

942200-POWER UNIT 20 HP KOHLER

942202-POWER UNIT 22 HP KOHLER

942205-POWER UNIT 25 HP KOHLER



WARNING: If incorrectly used this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers and should read the entire manual before attempting to set up, operate, adjust or service the machine.

FOR USE WITH OPERATOR'S MANUAL 2188168

BOB-CAT

TEXTRON
TURF CARE AND SPECIALTY PRODUCTS

2188138 6/96 REV01

**CALIFORNIA
Proposition 65 Warning**

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.



WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**Californie Proposition 65
Avertissement**

Les échappements des moteurs diesel et certains de leurs composés sont reconnus par l'Etat de Californie pour être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.



AVERTISSEMENT

L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérigènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

**California Advertencia
de la Proposicion 65**

El estado de California hace saber que los gases de escape de los motores diesel y algunos de sus componentes producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.



ADVERTENCIA

El estado de California hace saber que los gases de escape de este producto contienen productos químicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.



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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.

FORTOUCH-UPS USE RANSOMES PAINT:

838140 PAINT, SPRAY 16oz. GREEN
838141 PAINT, QUART GREEN

RECOMMENDED TORQUES FOR THESE GRADES OF FASTENERS

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

USE THESE SPECIFICATIONS UNLESS OTHERWISE NOTED.

SPECIFIC TORQUES:

BLADE BOLT: 70 FT-LBS

CRANKSHAFT BOLT: 50 FT-LBS +/-10%

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

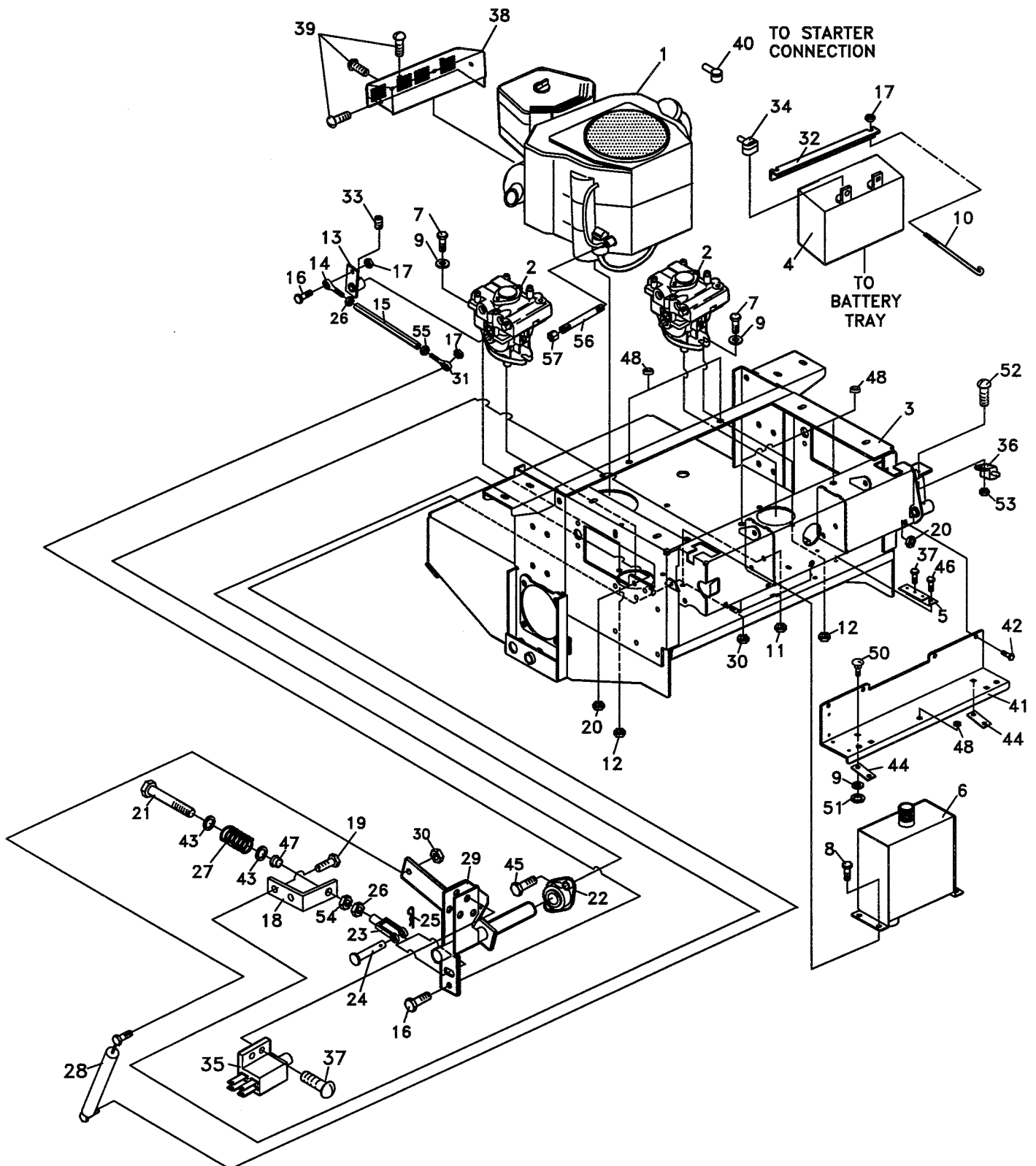
UPPER ENGINE DECK ASSY

FIGURE 1

ZTR



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**RANSOMES****ZTR****UPPER ENGINE DECK ASSY****FIGURE 1**

2187020

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
1-1	2188124	ENGINE-KOHLER CV20S	1	1-47	38304-02	S BRG FLGD PLASTIC	2
	* 2188125	ENGINE-KOHLER CV25S	1	1-48	810149	BUMPER-RUBBER	7
	* 2188171	ENGINE-KOHLER CV22S	1	1-50	64243-02	BLT-CRGM10-1.5X20	4
	(SERVICE MANUAL KOHLER #TP-2475-A)			1-51	64237-03	LOCKNUT NYLON M10-1.5	4
1-2	38345	PUMP-BDP 10L-119	2	1-52	64152-46	SCR-SLTHH#10-24	2
	(SEE PAGES 24-25 FOR BREAKDOWN)			1-53	64025-15	NUT-HEX#10-24 KEPS	2
1-3	2186148	S ENGINE DECK W/LABS	1	1-54	64229-08	LOCKNUT-NYLON 5/16-24	2
1-4	108055	BATTERY	1	1-55	64025-33	NUT-5/16-24 LH	2
1-5	2182432	BRACKET-RELAY	1	1-56	48024-9A	NIPPLE-PIPE 3/8X6	1
1-6	2186150	S HYD RESERVOIR W/LAB	1	1-57	118036	HEX CAP 3/8 PIPE	1
1-7	A110406	BLT-METRIC M10-1.5X30	4				
1-8	64197-016	BLT-TR 3/8-16X1 1/2	4				
1-9	64251-004	WSHR-M10	8				
1-10	831861	BOLT-BENT BATT. HOOK	2				
1-11	64141-4	NUT-WLF 3/8-16	8				
1-12	64237-03	LOCKNUT-NYLON M10-1.5	8				
1-13	2186171	WLDMT-PUMP ARM	2				
1-14	38369-02	ROD END BALL JOINT	2				
1-15	2188140	TURNBUCKLE	2				
1-16	64205-003	BLT-MET M8-1.25X30	4				
1-17	64229-02	LOCKNUT-NYLON 5/16-18	4				
1-18	2182405	BRKT-REVERSE RETURN	2				
1-19	A1104057	BLT-M10-1.50X25	4				
1-20	64246-03	WIZ NUT-MET. M10-1.5	8				
1-21	64123-205	BLT-HEX 5/16-24X4	2				
1-22	2188145	BEARING-SELF ALIGNED	4				
1-23	38020N	CLEVIS-YOKE PLATE	2				
1-24	64188-02	PIN-CLEVIS 5/16X1	2				
1-25	64168-2	HAIRPIN COTTER	2				
1-26	64025-03	NUT-HEX 5/16-24	2				
1-27	2188139	SPRING-COMPRESSION	2				
1-28	2188152	DAMPENER	2				
1-29	2186168	WLDMT-TRACTION CTRL RH	1				
	* 2186167	WLDMT-TRACTION CTRL LH	1				
1-30	64237-05	LOCKNUT-NYLON M8-1.25	4				
1-31	38369-01	ROD END BALL JOINT	2				
1-32	2182427	HOLD DOWN, BATTERY	1				
1-33	64192-03	SETSCRSQHD 5/16-24X5/8	2				
1-34	112386	BOOT, BAT TERM POS	1				
1-35	108208	SWITCH, DBL POLE	2				
1-36	2188156	SWITCH NONO DBL POLE	1				
1-37	64197-015	BLT-TDFM#10-32X1/2 TORX	6				
1-38	2122289	GUARD-MUFFLER	1				
	(NOT USED W/ 25 HP ENGINE)						
1-39	64152-43	SCREW-#8-18X.50 STAP	6				
1-40	2308095	COVER-TERMINAL	1				
1-41	2182404	PLATE, KICK	1				
1-42	64205-007	BLT-M10-1.5x20	4				
1-43	64163-55	WASHER .328X.75X14 GA	4				
1-44	2188146	STRIP, WEAR	2				
1-45	64123-15	BLT-HEX 3/8-16X3/4	8				
1-46	64152-23	SCREW 1/4-20X3/8	2				

*** NOT ILLUSTRATED**

LOWER ENGINE DECK ASSY/CLUTCH FIGURE 2

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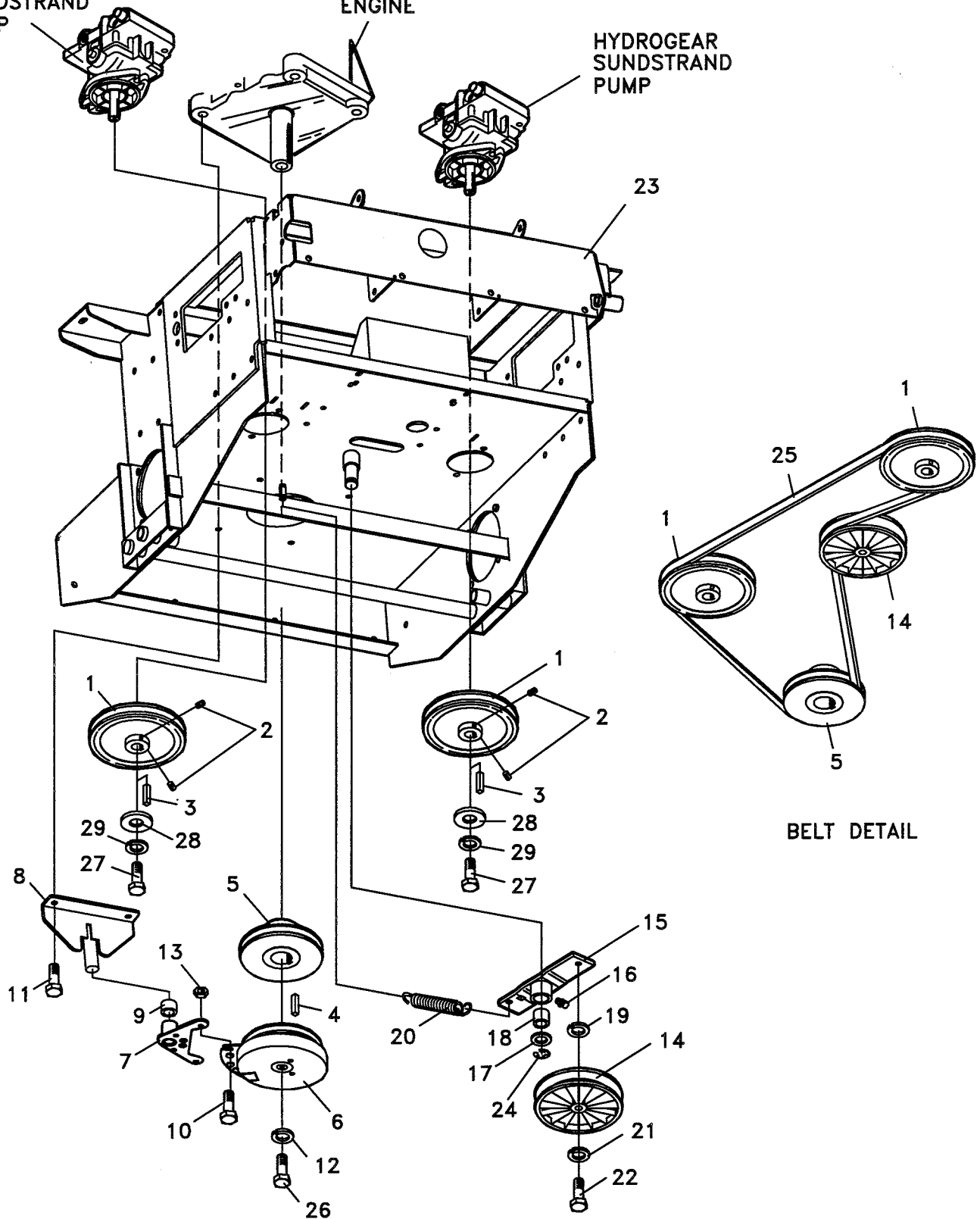


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HYDROGEAR
SUNDSTRAND
PUMP

ENGINE

HYDROGEAR
SUNDSTRAND
PUMP



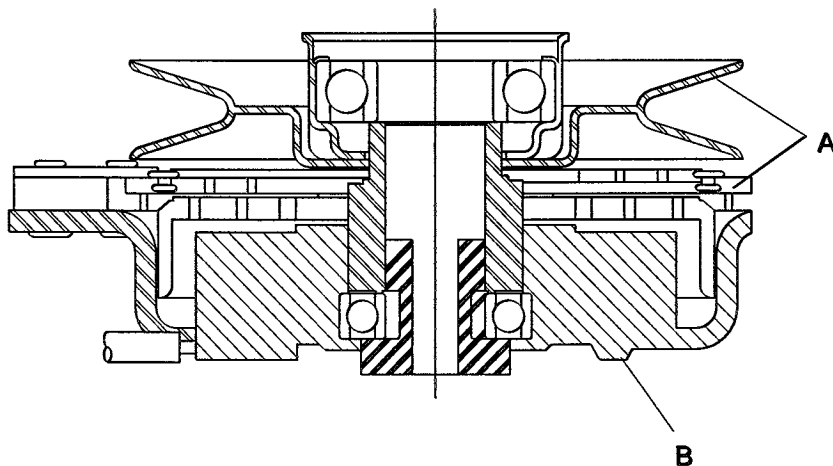
BELT DETAIL

TORQUE TO 50 FT/LBS +/-10%

**RANSOMES****ZTR****LOWER ENGINE DECK ASSY/CLUTCH****FIGURE 2**

2187021

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
2- 1.	2308148	PUMP-PULLEY	2	2-26	64123-155	BLT-HEX 7/16-20-3	1
2- 2.	64044-18	SCREW-SET 1/4-20X1/4	4	2-27	64205-013	BLT-METRIC M6-1X12	2
2- 3.	64238-03	KEY-MTRC 5mm SQX28mm	2	2-28	64163-34	WSHR.256/.267X1X11GA	2
2- 4.	64164-10	1/4X1/4X1 1/4 SQ END KEY	1	2-29	64006-01	LOCKWSHR-HELICAL 1/4	2
2- 5.	2188188	PULLEY-4.25 ENGINE	1				
2- 6.	2188151	CLUTCH-ELECTRIC	1				
	A - 2188151-01	S ROTOR/PULLEY ASSY	1				
	B - 2188151-02	S FIELD ASSY	1				
2- 7.	2186141	WLDMT-CLUTCH STOP	1				
2- 8.	2186147	WLDMT-BRKT CLUTCH	1				
2- 9.	2308076-01	BEARING-PLASTIC	1				
2-10.	64243-03	BLT-CRGM8-1.25X20	4				
2-11.	64197-005	BLT-TR 3/8-16X1 1/4	4				
2-12.	64006-06	LCKWSHR-HELICAL 7/16	1				
2-13.	64237-05	LOCKNUT-NYLON M8-1.25	2				
2-14.	2308000	PULLEY-IDLER 4.00 E.O.D.	1				
2-15.	2306082	WLDMT-IDLER ARM	1				
2-16.	85010N	STRAIGHT ZERK FITTING	1				
2-17.	64163-65	WASHER 18 GA	1				
2-18.	65103A	BEARING-BUSHING	1				
2-19.	33148-01	SPACER	1				
2-20.	38219	SPRING-TENSION	1				
2-21.	64006-03	LCKWSHR-HELICAL 3/8	1				
2-22.	64123-21	BLT-HEX 3/8-24X1 1/4	1				
2-23.	2186148	S ENGINE DECK W/LABS	1				
2-24.	64221-04	E-RING .875	1				
2-25.	2188128	BELT-TRACTION DRIVE	1				

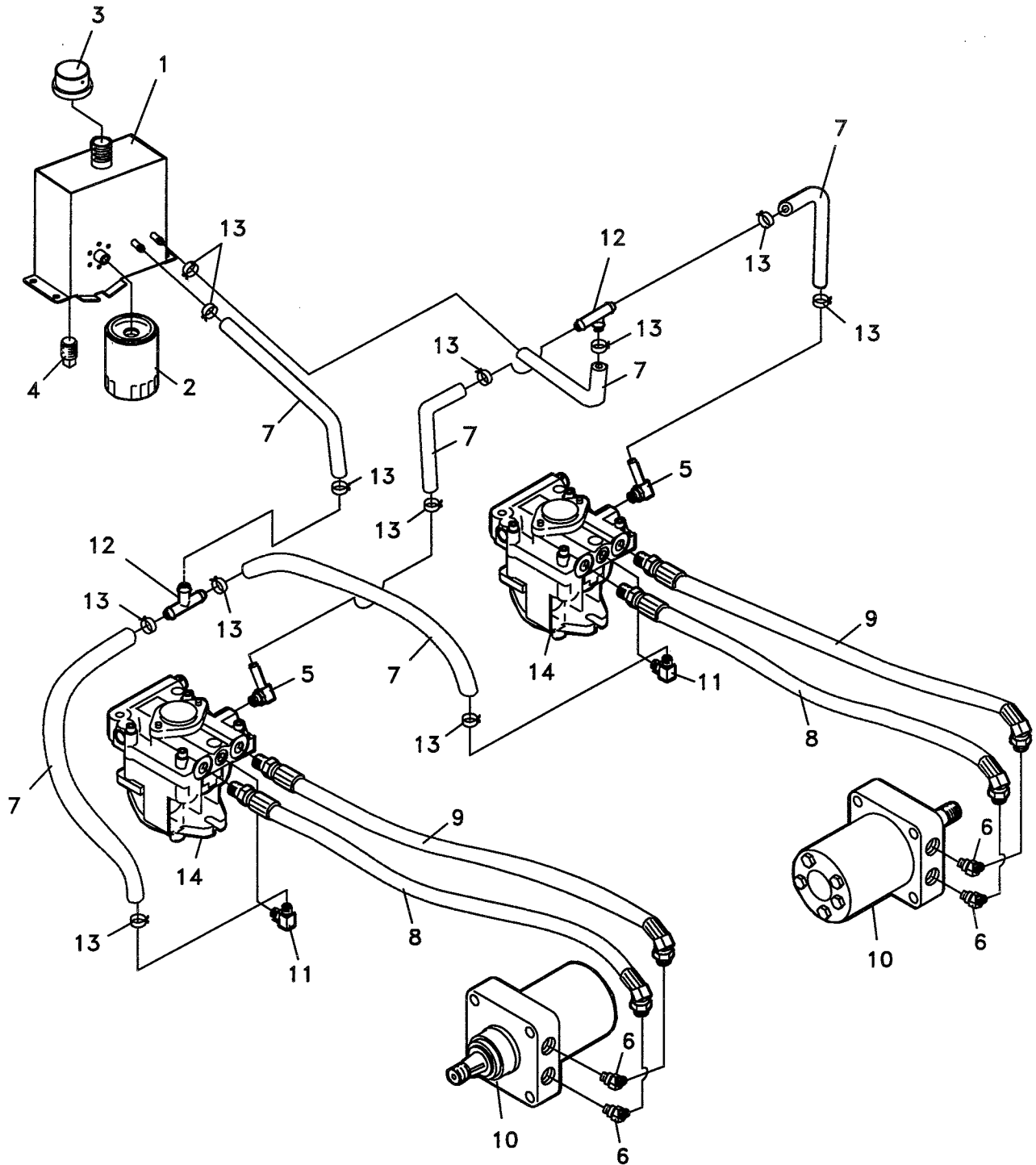
SERVICE PARTS FOR CLUTCH 2188151

HYDRAULICS
FIGURE 3

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**RANSOMES****ZTR****HYDRAULICS****FIGURE 3**

2187022

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
3-1.	2186150	S HYD RESERVOIR W/LAB	1	SAE PORT 'O' RINGS			
3-2.	2188179	FILTER 25 MICRON	1	PART	NUMBER	THREAD SIZE	AS-568 #
3-3.	69214-01	CAP-RESERVOIR	1	158061-10		9/16-18	-906
3-4.	108029	PLUG-MAGNETIC	1	158061-11		3/4-16	-908
3-5.	158058-04	FTG-90 BRB 9/16-18X.38	2	158061-12		7/8-14	-910
3-6.	108205-03	ELBOW-MALE 45 37-ORB	4	158061-13		1-1/16-12	-912
3-7.	69053	3/8 HIGH TEMP HOS	.420 FT	158061-14		1-5/16-12	-916
	69053	3/8 HIGH TEMP HOSE	.420 FT	158061-16		1-5/8-12	-920
	69053	3/8 HIGH TEMP HOSE	.630 FT	158061-03		1-7/8-12	-924
	69053	3/8 HIGH TEMP HOSE	.920 FT				
	69053	3/8 HIGH TEMP HOSE	.920 FT				
	69053	3/8 HIGH TEMP HOSE	.920 FT				
3-8.	2188157-01	HOSE HYD ORB 37-22.38	2				
3-9.	2188157-02	HOSE HYD ORB 37-25.00	2				
3-10.	2188126-01	MOTOR-ASSY HYD	2				
3-11.	158058-07	FTG-90 BARB ADJ	2				
3-12.	58026-01	3 WAY CONNECTOR 3/8	2				
3-13.	88042-04	CLAMP-HOSE 5/8	12				
3-14.	38345	PUMP-BDP 10L-119	2				

NOTE:

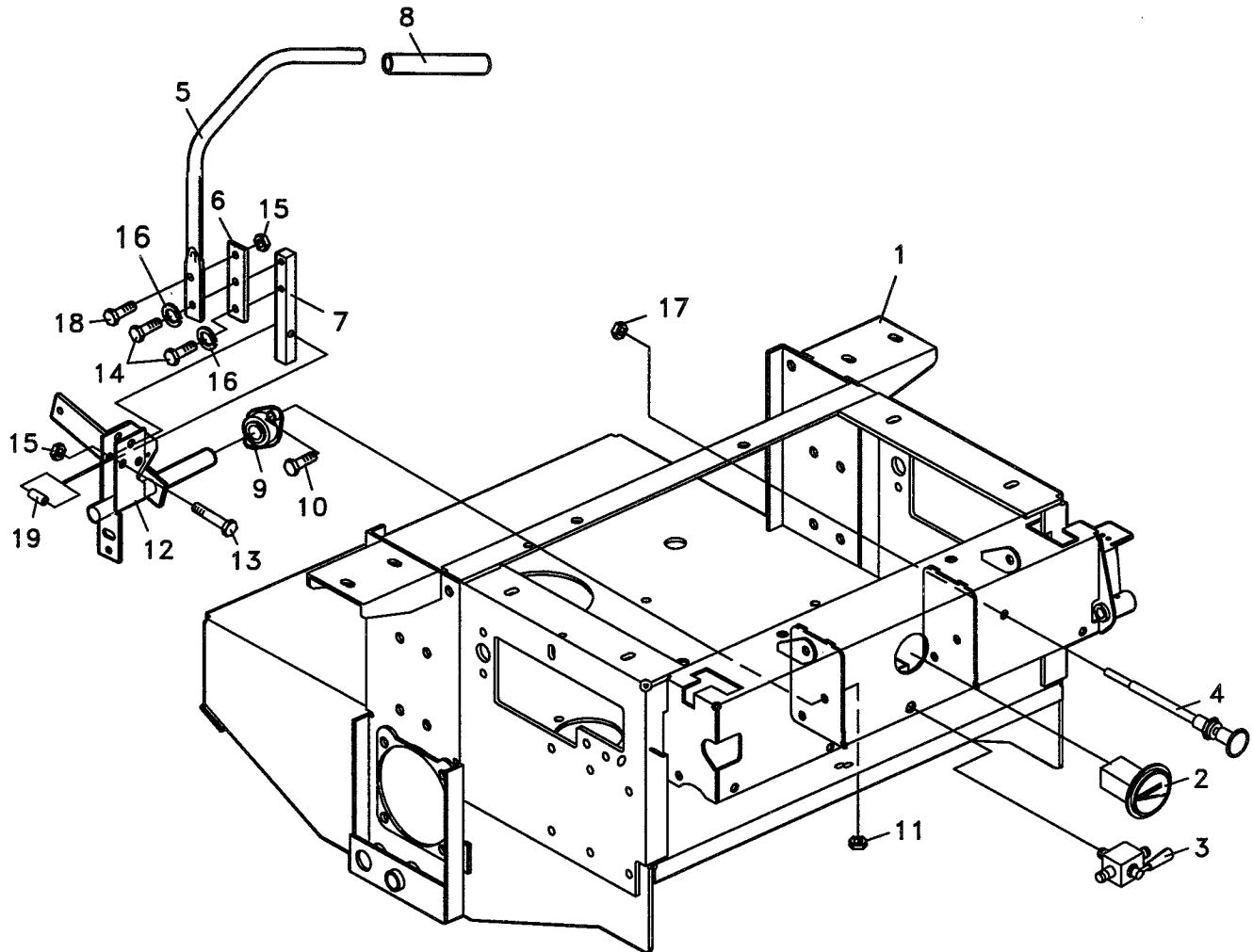
DO NOT use teflon tape on any hydraulic fittings.
Use a liquid pipe sealant.

INSTRUMENTS/STEERING
FIGURE 4

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**RANSOMES****ZTR****INSTRUMENTS/STEERING
FIGURE 4**

2187023

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
4-1	2186148	S ENGINE DECK W/LABS	1				
4-2	48030N	HOUR METER ASSY	1				
4-3	2188161	VALVE-TANK SELECTOR	1				
4-4	108009-04	CONTROL-CHOKE 40.0	1				
4-5	2182344	LEVER-CONTROL	2				
4-6	2182434	BRKT-TRACTION LEVER	2				
4-7	2183074	BRACKET-HANDLE	2				
4-8	2188144	GRIP-.75IDX12	2				
4-9	2188145	BEARING-SELF ALIGNED	4				
4-10	64123-15	BLT-HEX 3/8-16X3/4	8				
4-11	64141-4	NUT-WLF 3/8-16	8				
4-12	2186168	WLDMT-TRACTION CTRL RH	1				
	* 2186167	WLDMT-TRACTION CTRL LH	1				
4-13	64205-011	BLT-MET M10-1.5X40	6				
4-14	A110406	BLT-METRIC M10-1.5X30	4				
4-15	64237-03	LOCK NUT-NYLON M10-1.5	8				
4-16	800488	LOCK WASHER-M10	4				
4-17	64025-04	NUT-HEX 3/8-24	1				
4-18	A1104057	BLT-MET. M10-1.5X25	2				
4-19	2188073	SPACER	6				

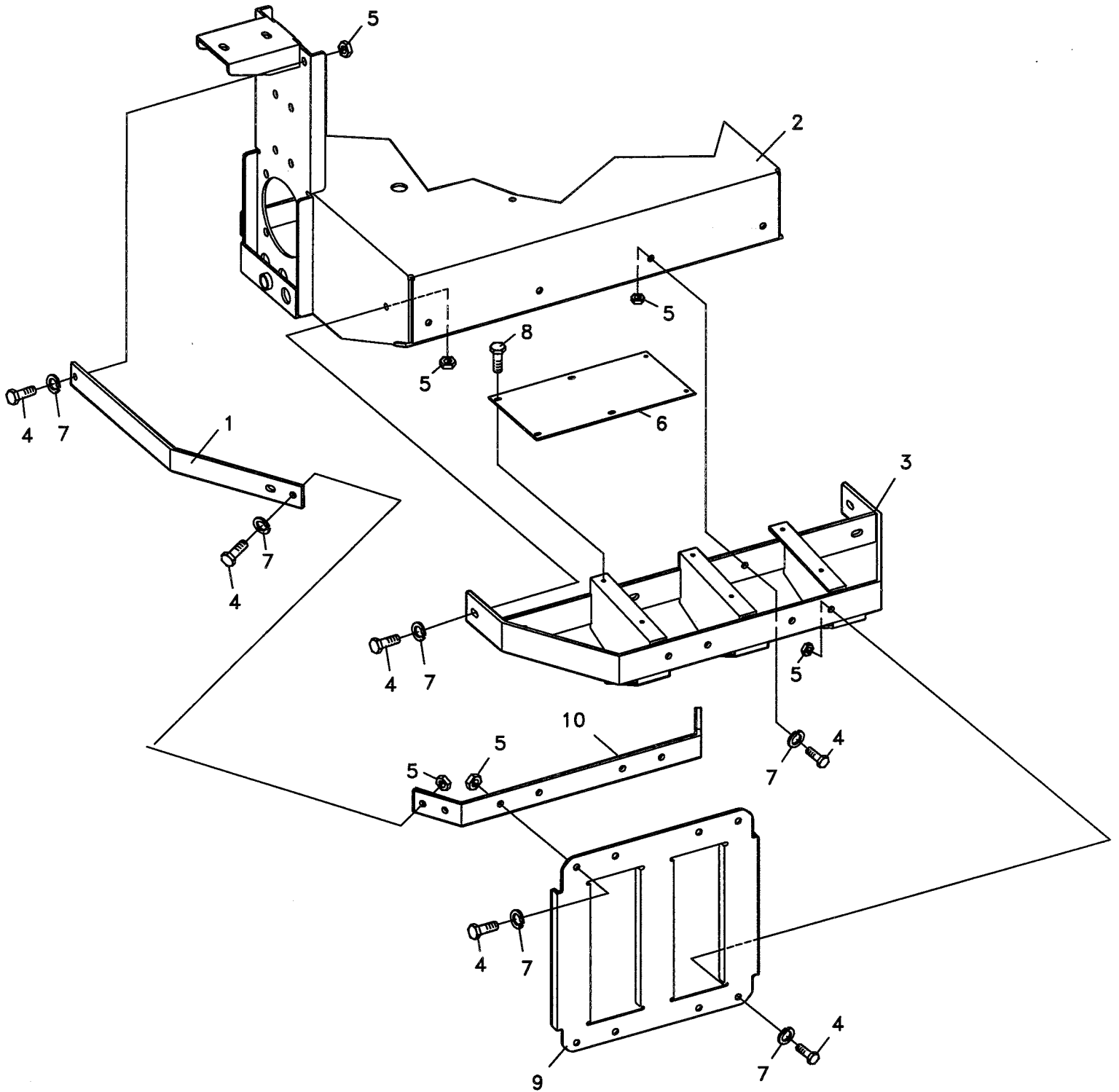
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**BUMPER
FIGURE 5**

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**RANSOMES****ZTR****BUMPER
FIGURE 5**

2187024

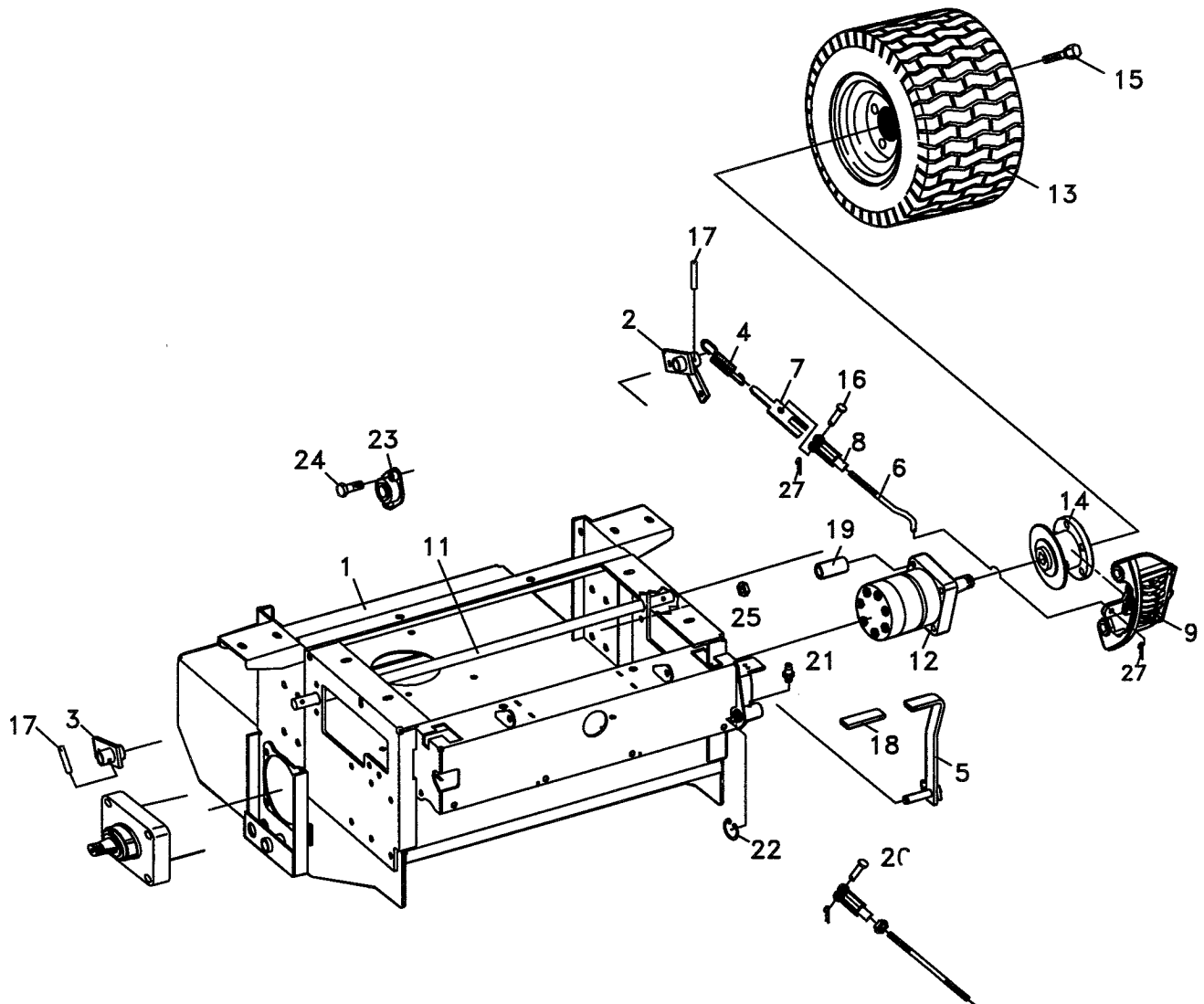
ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
5- 1.	2182435	ARM-BUMPER	2				
5- 2.	2186148	S ENG DECK W/LABS	1				
5- 3.	2186144	WLDMT-BUMPER	1				
5- 4.	A1104057	BLT-METRIC M10-1.5X25	20				
5- 5.	64237-03	LOCKNUT-NYLON M10-1.5	20				
5- 6.	2182418	HEATSHIELD	1				
5- 7.	64251-004	WASHER-MET. M10	18				
5- 8.	64152-23	SCREW 1/4-20X3/8	6				
5- 9.	2182442	BRACE-VERTICAL	1				
5-10.	2182420	BRACE-BUMPER	1				

BRAKES/REAR WHEEL
FIGURE 6

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**RANSOMES****ZTR****BRAKES/REAR WHEEL****FIGURE 6**

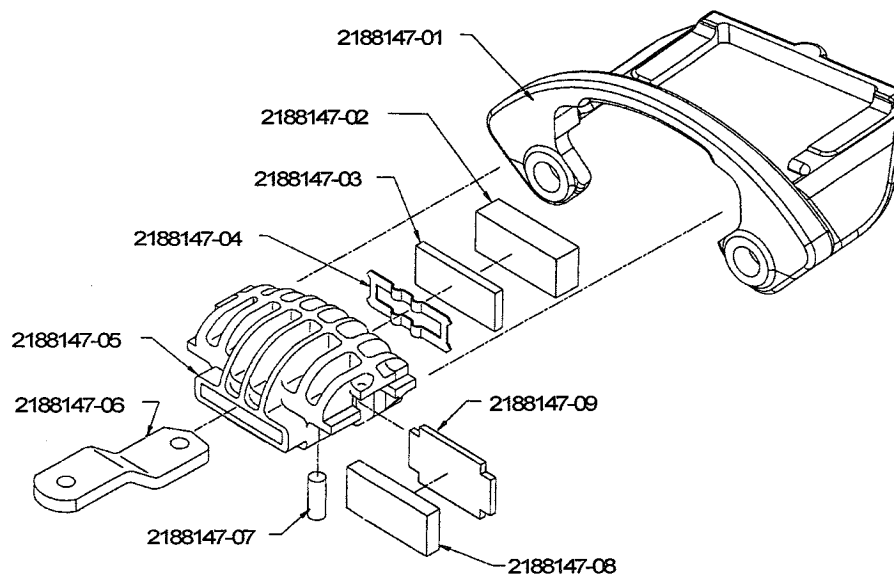
2187025

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
6-1	2186148	S ENGINE DECK WLABS	1	6-27	64168-2	HAIRPIN COTTER	6
6-2	2186128	WLDMT-BRAKE ARM LH	1	6-28	64025-04	NUT-HEX 3/8-24	2
6-3	2186142	WLDMT-BRAKE ARM RH	1	6-29	38020-01	CLEVIS YOKE 3/8 PLATE	2
6-4	128102	SPRING-EXTENSION	2	6-30	2183064	ROD, BRAKE	1
6-5	2186143	WLDMT-BRAKE ARM LVR	1	6-31	450766	CAPSCRWM12-1.75X100	8
6-6	33213	ROD-SPD CTRL LH UPPER	2	6-33	64207-07	NUT-HEXM12-1.75	8
6-7	2182387	GUIDE-SPRING	2	6-34	64006-05	LCKWHSR-HELICAL 1/2	8
6-8	38020N	CLEVIS-YOKE PLATE	2	6-35	64025-31	NUT1-20 UNSLOTTED TRW	2
6-9	2188147	ASSY BRAKE CW (LH)	1	6-36	64164-08	S-KEY / WHEEL MOTOR	2
	* 2188148	ASSY BRAKE CCW (RH)	1				
6-10	64163-06	WSHR-.768-.756 IDX14 GA	A/R				
6-11	2183056	SHAFT-BRAKE	1				
6-12	2188126-01	MOTOR-ASSY HYDRAULIC	2				
	(INCLUDES ITEMS 35 & 36)						
6-13	2198156	ASSY-WHL & TIRE	2				
	2198156-01	RIM ASSY W/VALVE STEM	2				
	2198156-02	TIRE 23 X 10.5 X 12	2				
6-14	2188149	HUB-WHL & DISC	2				
6-15	64220-02	BOLT-WHEEL 7/16-20	10				
6-16	64188-02	PIN-CLEVIS 5/16X1	2				
6-17	64061-25	ROLL-PIN 1/4X1 1/4	2				
6-18	2188155	GRIP, 1/4X1X4 1/2	1				
6-19	2183063-01	SPACER, 32MM LONG	8				
6-21	85010N	STRAIGHT ZERK FITTING	1				
6-22	64144-34	SNAP RING .50	1				
6-23	2188145	BRG-.75 ID BRNZ SLF ALIGN	2				
6-24	64123-15	BLT-HEX 3/8-16X3/4	4				
6-25	64141-4	NUT-WLF 3/8-16	4				
6-26	64188-03	S PIN CLEVIS 3/8X1 1/8	2				

SERVICE PARTS FOR 2188147 AND 2188148

BRAKE ASSEMBLIES		QTY/ASSY
2188147-01	BRACKET-MACHINED	1
2188147-02	PAD-CAM SIDE	1
2188147-03	PAD-SUPPORT	1
2188147-04	SPRING-LEVER RETAINER	1
2188147-05	HOUSING	1
2188147-06	CAM LH	1
2188147-07	PIVOT PIN	1
2188147-08	PAD-CARRIER SIDE	1
2188147-09	PAD-SUPPORT	1
2188148-01	* CAM RH	1

* NOT ILLUSTRATED

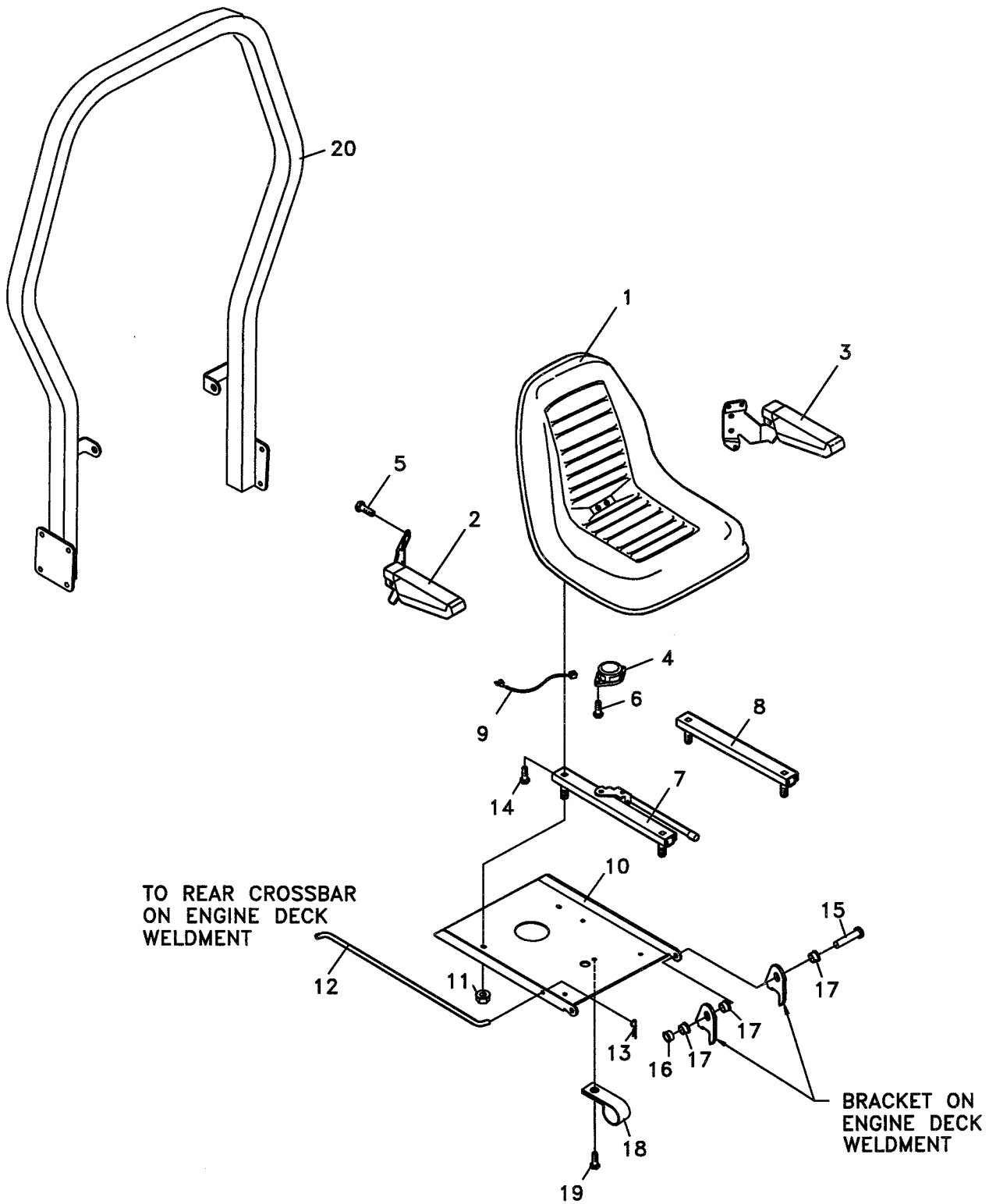
BRAKE ASSEMBLY BREAKDOWN

SEAT ASSEMBLY & ROPS FIGURE 7

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**RANSOMES****ZTR****SEAT ASSEMBLY & ROPS****FIGURE 7**

2187026

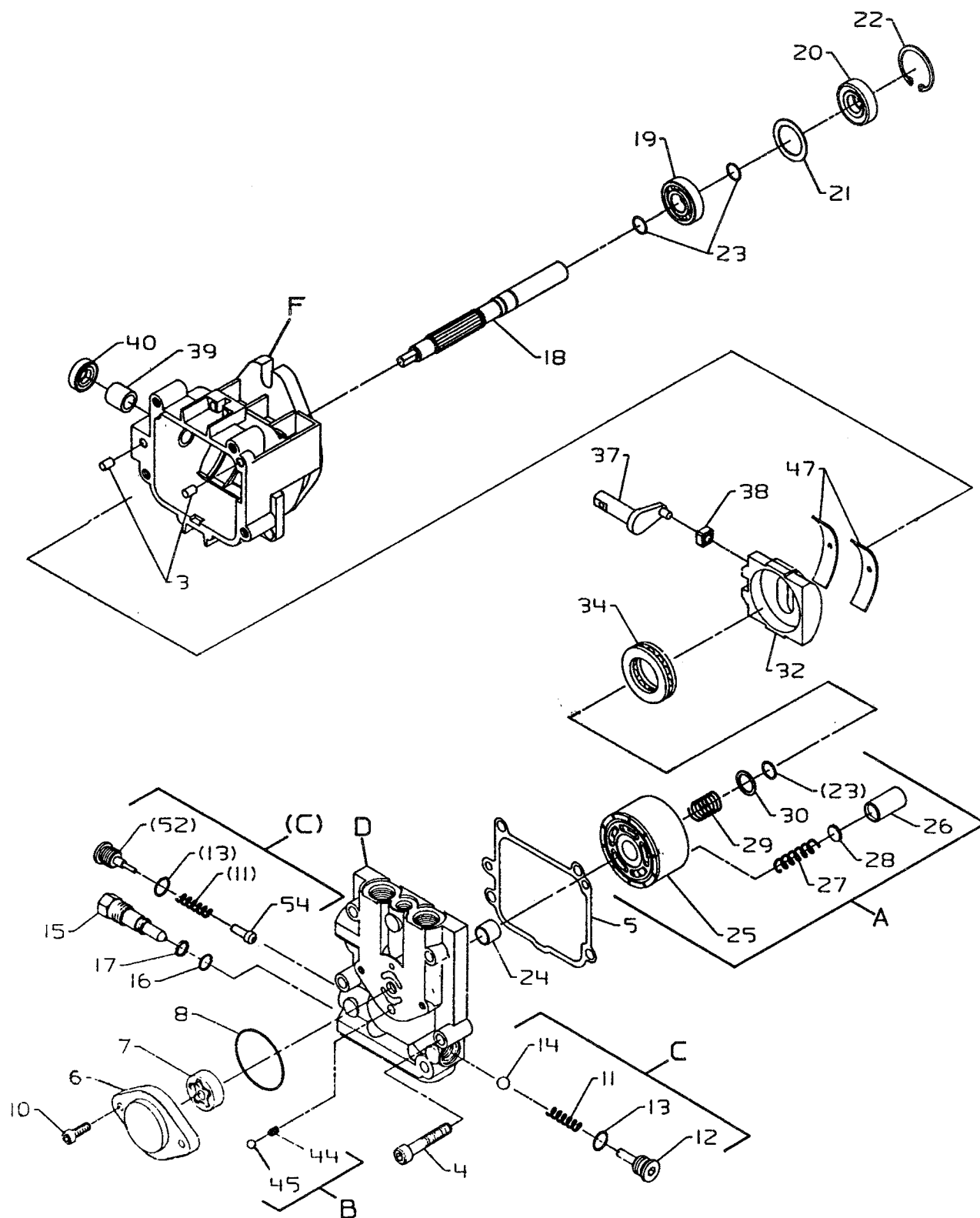
ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
7-1	198057	SEAT	1				
		OPTIONAL ARM RESTS:					
7-2	198066	RH ARM REST	1				
7-3	198059	LH ARM REST	1				
7-4	158135-01	SWITCH, SEAT NO	1				
7-5	64139-16	BLT-WLF 5/16-18 X 3/4	6				
7-6	64139-02	BLT-WLF 1/4-20 X 1/2	2				
7-7	198063	SLIDE RAIL-ADJ	1				
7-8	198062	SLIDE RAIL-SLAVE	1				
7-9	158136	WIRE-SEAT SWITCH	1				
7-10	2182391	PLATE-SEAT	1				
7-11	64141-6	NUT-WLF 5/16-18	4				
7-12	2183069	ROD-PROP	1				
7-13	64168-2	HAIRPIN-COTTER	1				
7-14	2198096	SCREW-CAP WSHR HD	4				
7-15	64188-38	PIN, CLEVIS 3/8X1 W/O HL	2				
7-16	64175-04	PUSHNUT 3/8 DIA	2				
7-17	38371-01	BRG-NYLINER 3/8	6				
7-18	48228A	CABLE CLIP-INSULATED	1				
7-19	64152-23	SCREW 1/4-20X3/8	1				
		OPTIONAL ROPS:					
7-20	970095	ATT-ROPS					

HYDROGEAR PUMP FIGURE 8

ZTR



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**RANSOMES****ZTR****SUNDSTRAND PUMP****FIGURE 8**

2187031

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
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HYDROGEAR-SUNDSTRAND MODEL BDP-10L-119

A	38345-12	S-SUN 2513009 CYL KIT	1
B	38345-05	S-SUN 2510011 CRLF-KIT	1
C	38345-02	S-SUN 2510008 VAL-KIT	1
(C)	38345-03	S-SUN 2510027 CKV-KIT	1
D	38345-13	S-SUN 2513016 ECAP KIT	1
F	38345-04	S-SUN 2513017 HSG-KIT	1

(INCLUDES ITEM 39)

8-4	38345-11	S-SUN 9007314-0810 SHS	4
8-5	38345-14	S GASKET-HSG 2003067	1
8-6	38345-06	S-SUN 2003040 CRG-KIT	1
8-7	38345-07	S-SUN J1041008 GRT ASY	1
8-8	38345-08	S-SUN 9004101-1340 OR	1
8-10	38345-10	S-SUN 9007375-0035 SHS	2
8-18	38345-09	S-SUN J1030673 SHAFT	1
8-32	188059-11	S SWPLT-VAR 2003087	1
8-37	188059-15	S ARM TRUNN 2003005	1
8-38	188059-9	S GUIDE-SLOT 2000015	1
8-39	188059-14	S BRG TRUNN 2003009	1
8-47	188059-13	S BRG CRDL J1040976	1

38345-01 S-SUN 2513018 S-KIT 1**(CONTAINS ITEMS 5, 8, 13, 16, 17, 20, 23, & 40)**

8-48 * 38345-10 S SUN 2003067 GASKET A/R

PARTS NOT SERVICED BY RANSOMES, INC.,
SEE HYDROGEAR-SUNSTRAND DEALER:

ITEM HYDROGEAR-SUNSTRAND P/N

8-3	9004800-2506
8-15	4460547-001
8-19	2003043
8-21	2003018
8-24	2003071
8-34	2003044
8-47	J1040976

* NOT ILLUSTRATED

WIRING HARNESS

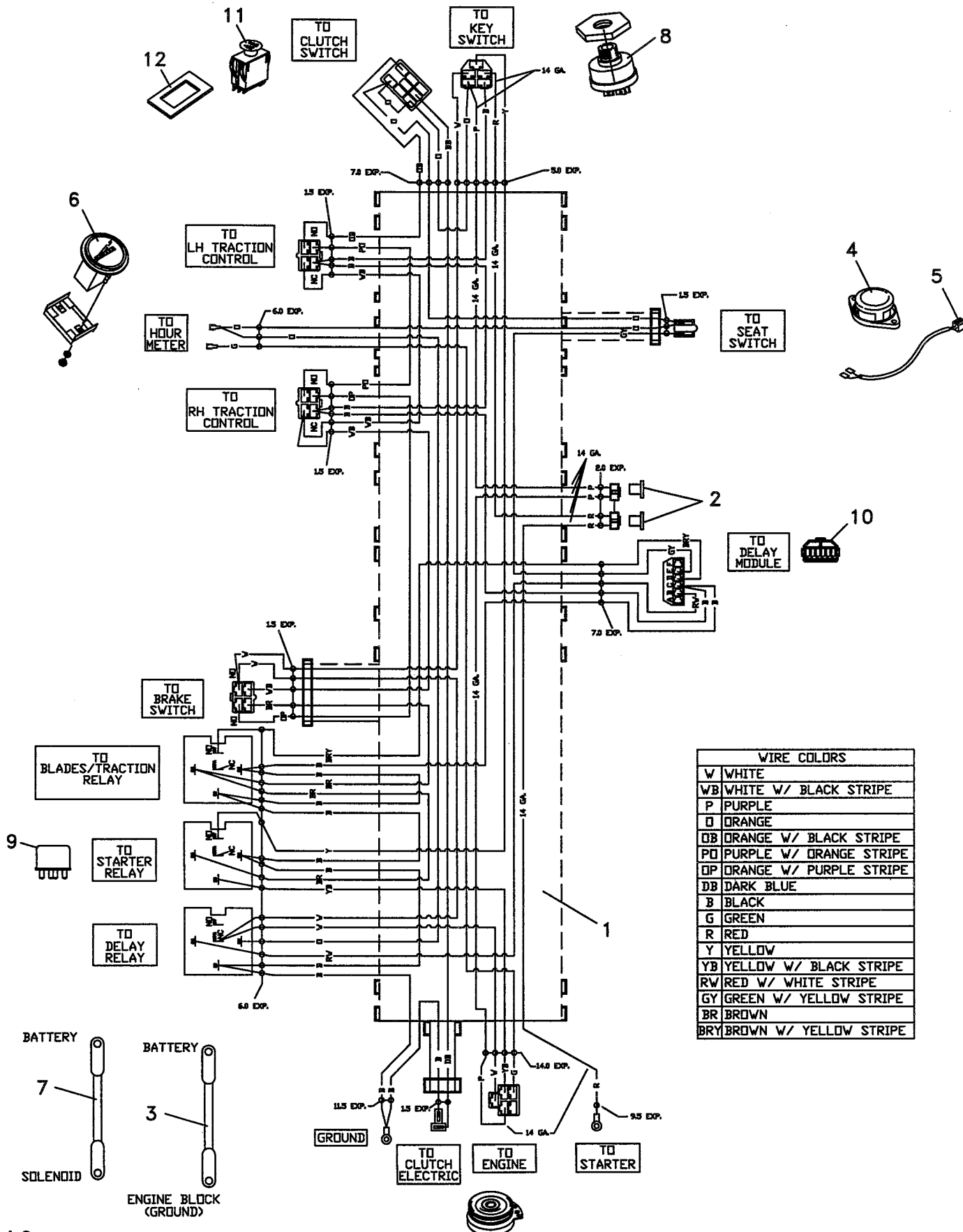
FIGURE 9

REF 2188163

ZTR



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WIRE COLORS	
W	WHITE
WB	WHITE W/ BLACK STRIPE
P	PURPLE
O	ORANGE
OB	ORANGE W/ BLACK STRIPE
PO	PURPLE W/ ORANGE STRIPE
OP	ORANGE W/ PURPLE STRIPE
DB	DARK BLUE
B	BLACK
G	GREEN
R	RED
Y	YELLOW
YB	YELLOW W/ BLACK STRIPE
RW	RED W/ WHITE STRIPE
GY	GREEN W/ YELLOW STRIPE
BR	BROWN
BR Y	BROWN W/ YELLOW STRIPE

**RANSOMES****ZTR****WIRING HARNESS****FIGURE 9**

2187032

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
9-1	2188163	HARNESS-WIRING	1				
9-2	148082-20	FUSE-20 AMP	2				
9-3	108061-13	CABLE-BATTERY	1				
9-4	158135-01	SWITCH-SEAT NO	1				
9-5	158136	WIRE-SEAT SWITCH	1				
9-6	48030N	HOUR METER ASSY	1				
9-7	48306A	CABLE-SOL/STARTER	1				
9-8	128010	KEY-SWITCH	1				
9-9	128037	RELAY	3				
9-10	2188154	MODULE-DELAY	1				
9-11	2188153	SWITCH-CLUTCH	1				
9-12	2188178	SWITCH-RETAINER	1				

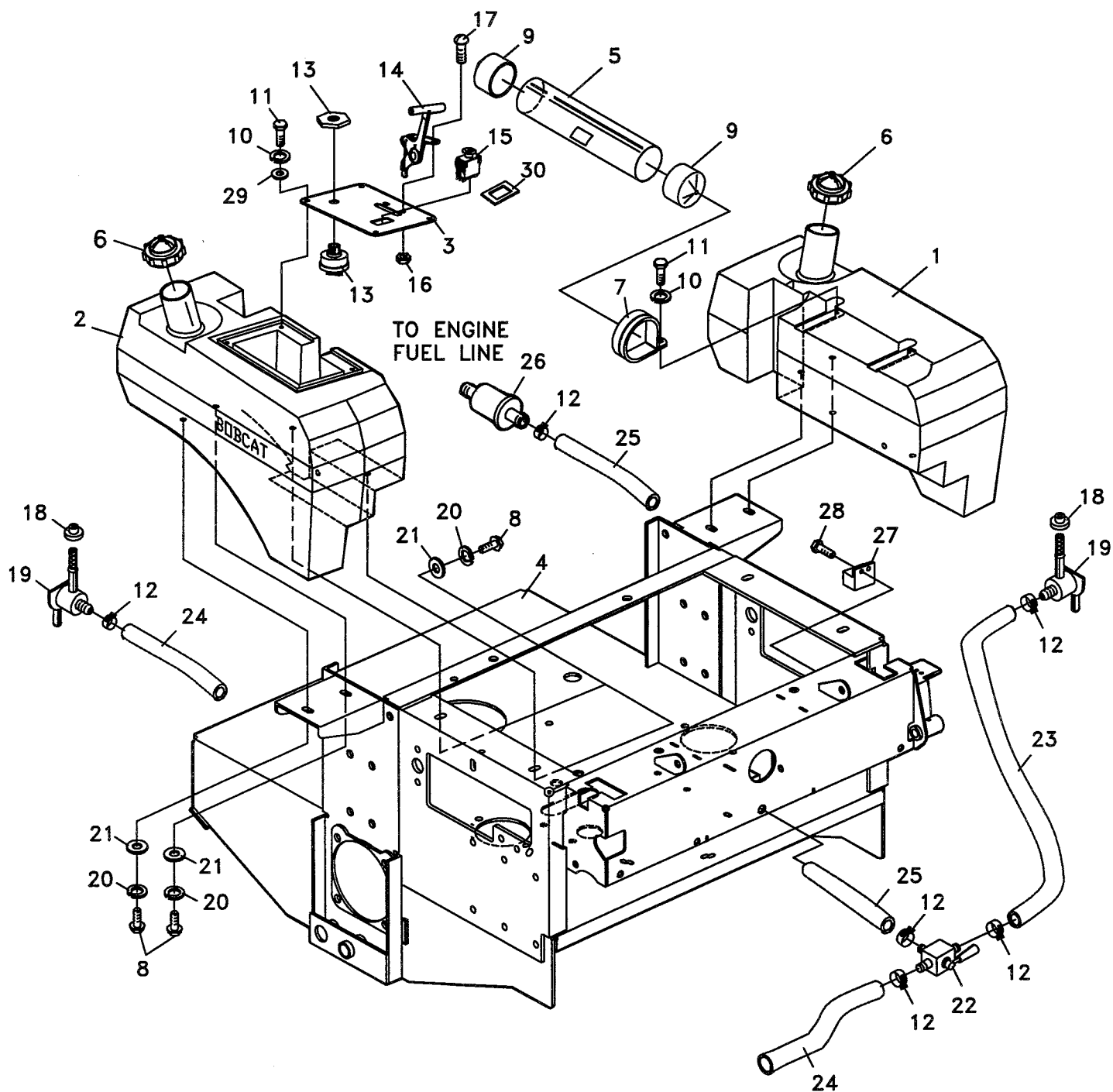
FUEL TANKS/CONTROL PANEL

FIGURE 10

ZTR



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**RANSOMES****ZTR****FUEL TANKS/CONTROL PANEL****FIGURE 10**

2187033

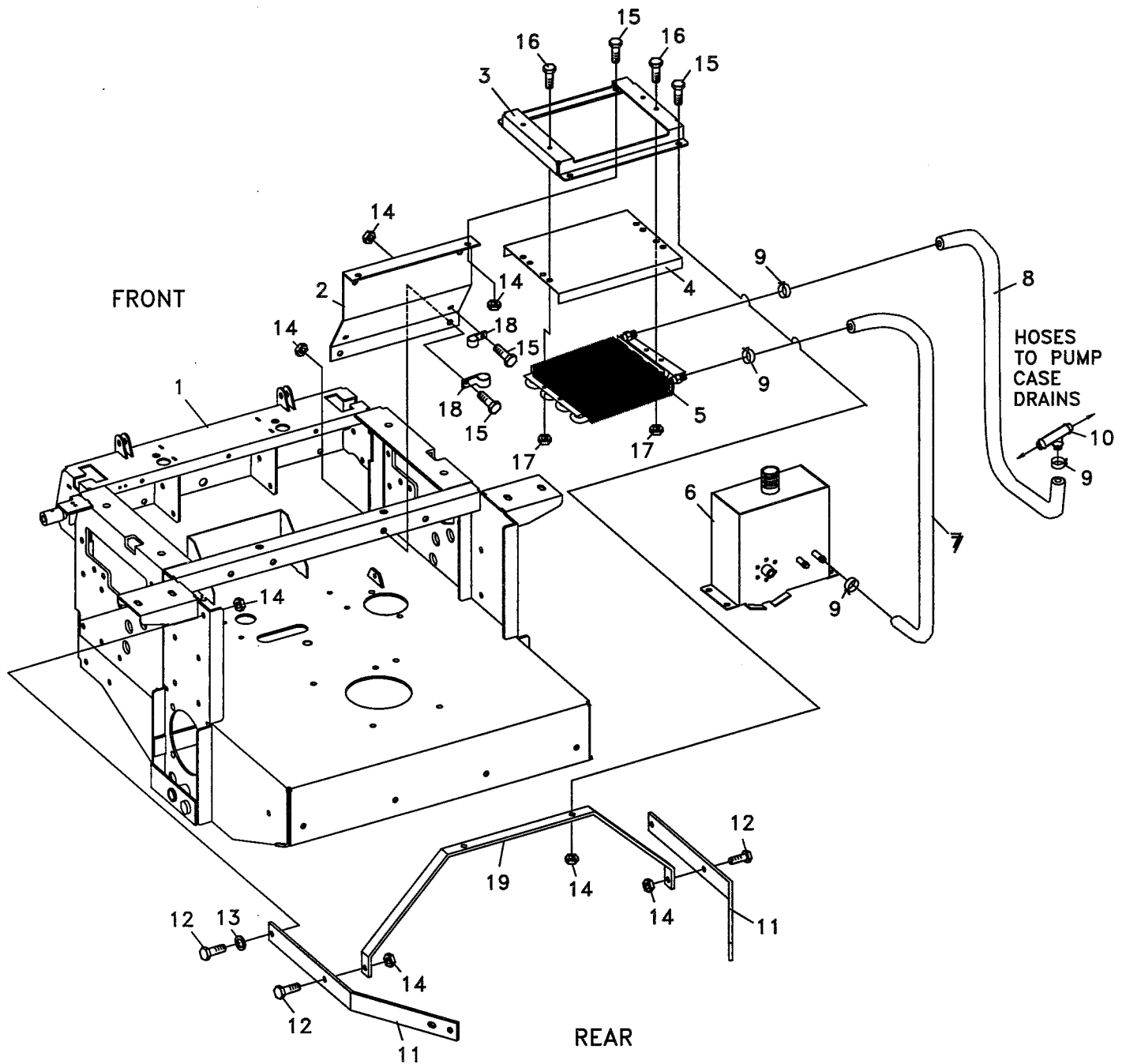
ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
10-1	2188159	TANK-FUEL LH	1				
		(INCLUDES ITEMS 18 & 19)					
10-2	2188160	TANK-FUEL RH	1				
		(INCLUDES ITEMS 18 & 19)					
10-3	2186151	S CONTROL PANEL W/LAB	1				
10-4	2186148	S ENG DECK W/LABS	1				
10-5	2206184	S DOC TUBE W/LABS	1				
10-6	2308073	CAP-FUEL TANK	2				
10-7	38542	CLAMP-DOCTUBE	2				
10-8	64205-007	BLT-MET.M10-1.5X20	8				
10-9	38061A	SPINDLE-SHIELD	2				
10-10	64006-01	LCKWSHR-HELICAL 1/4	6				
10-11	A1102966	BLT-M6-1.00X16	6				
10-12	88042N	HOSE CALMP	6				
10-13	128010	KEY-SWITCH	1				
10-14	118020-09	CONTROL, THROTTLE	1				
10-15	2188153	SWITCH-CLUTCH	1				
10-16	64025-15	NUT-HEX#10-24 KEPS	2				
10-17	64152-46	SCR.-SLTHH#10-24X1/2	2				
10-18	48310	S BUSHING, FUEL TANK	2				
10-19	38540	S FUEL SHUTOFF VALVE	2				
10-20	800488	LOCK WASHER M10	8				
10-21	64251-004	WASHER-M10	8				
10-22	2188161	VALVE-TANK SELECTOR	1				
10-23	48016-13A	HOSE 1/4IDX1/2ODX2.00	1				
10-24	48016-21A	HOSE 1/4IDX1/2ODX1.84	1				
10-25	48016-22A	HOSE 1/4IDX1/2ODX1.67	1				
10-26		FUEL FILTER	2				
		(OBTAIN FROM KOHLER)					
10-27	2188154	MODULE-DELAY	1				
10-28	64197-015	BLT-SLFTAP#10-32X1/2	2				
10-29	64163-03	WSHR-FLT.256IDX8 GA	4				
10-30	2188178	SWITCH-RETAINER	1				

OIL COOLER FIGURE 11

ZTR



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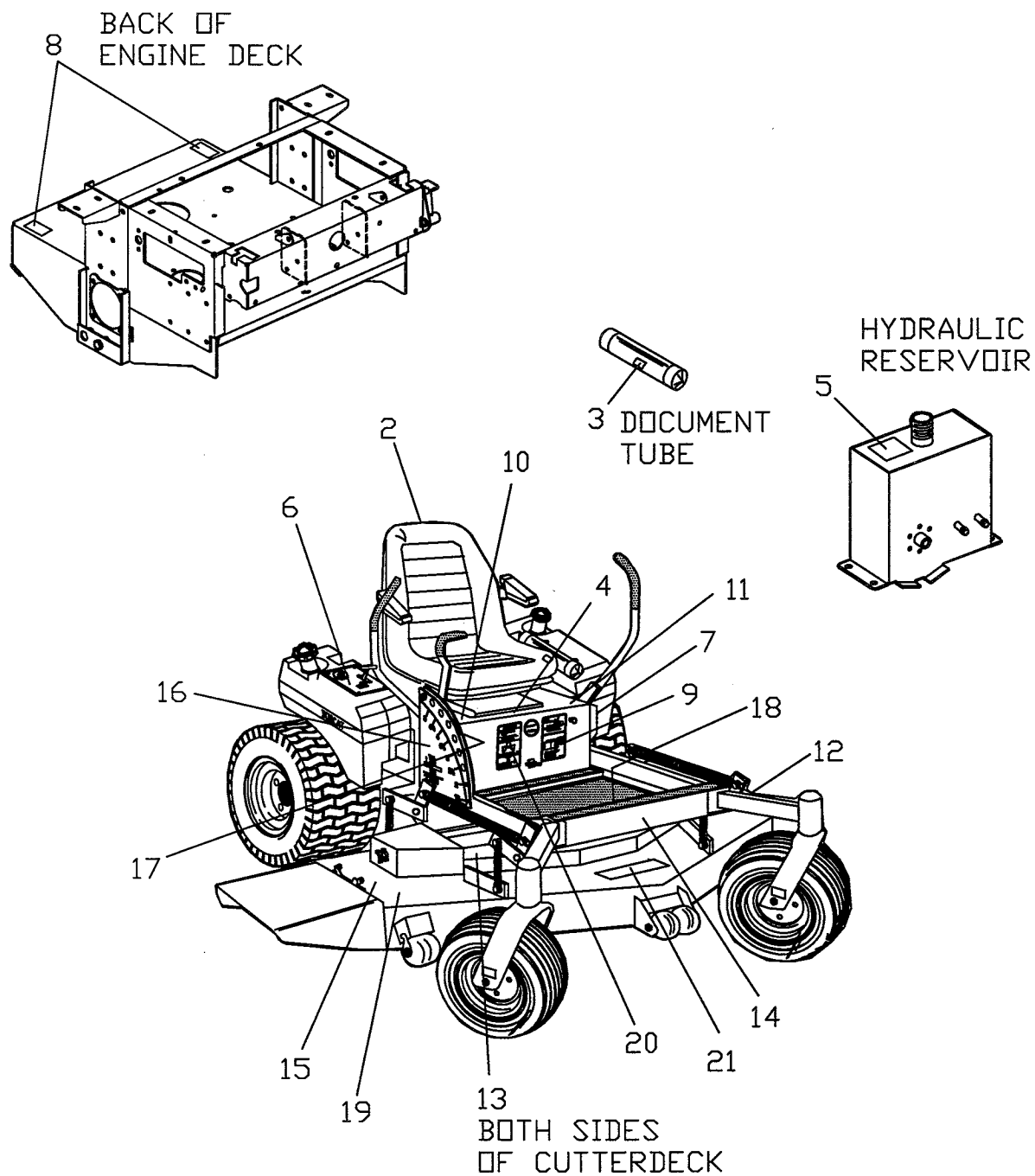
**RANSOMES****ZTR****OIL COOLER
FIGURE 11**

2187036

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
KIT-OIL COOLER #970097							
11-1	2186148	S ENGINE DECK W/LABS	1				
11-2	2182444	BRKT-COOLER FRONT	1				
11-3	2182446	BRKT-OIL COOLER	1				
11-4	2182447	SCREEN-OIL COOLER	1				
11-5	2188173	COOLER-OIL	1				
11-6	2186150	S HYD RSRVR W/LABS	1				
11-7	69053-12	3/8 HIGH TEMP HOSE 26"	1				
11-8	69053-11	3/8 HIGH TEMP HOSE 22"	1				
11-9	88042-04	CLAMP-HOSE 5/8	4				
11-10	58026-01	3 WAY CONNECTOR 3/8	1				
11-11	2182435	ARM-BUMPER	2				
11-12	A1104057	BLT-MET. M10-1.5X25	4				
11-13	64251-004	WASHER-M10	2				
11-14	64237-03	LOCKNUT-NYLON M10-1.5	10				
11-15	64205-007	BLT-MET. M10-1.5X20	7				
11-16	A1102966	BLT-MET M6-1.00X16	4				
11-17	64237-02	LOCKNUT-NYLON M6-1.00	4				
11-18	48228-2A	CABLE-CLIP 3/4 W/INSTN	2				
11-19	2182445	BRKT-COOLER	1				

DECALS FIGURE 12

ZTR



**RANSOMES****ZTR****DECALS
FIGURE 12
2187034**

ITEM	PART No.	DESCRIPTION	QTY	ITEM	PART No.	DESCRIPTION	QTY
12-2	00399	LABEL-BOBCAT	1				
12-3	2000673	LABEL-OP MANUAL	1				
12-4	2000590	LABEL-WARN BATTERY	1				
12-5	2000691	LABEL-HYD OIL FILL	1				
12-6	2000692	LABEL-CNTRL PANEL	1				
12-7	2000693	LABEL-PARK BRAKE	1				
12-8	2000698	LABEL-FUEL LEAKS	2				
12-9	2000705	LABEL-TIRES	1				
12-10	2000700	LABEL-RH TRACTION	1				
12-11	2000701	LABEL-LH TRACTION	1				
12-12	2000572	LABEL-WARN BLADES	1				
12-13	2000577	LABEL-WARN ROT PARTS	2				
12-14	2000611	LABEL-RAN STRIPE 48 MS	1				
12-15	2000677	LABEL-WARN/DANGER (SIDE DISCHARGE UNITS ONLY)	1				
12-16	2000683	LABEL-HEIGHT CUT	1				
12-17	2000694	LABEL-INSIDE HOC	1				
12-18	2000695	LABEL-WARN/USING	1				
12-19	2000696	LABEL-BLADE INSTALL	1				
12-20	2000706	LABEL-FUEL	1				
12-21	2000749	LABEL-ENVIRODECK ((MULCHING DECKS ONLY)	1				

CROSS REFERENCE

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PART No.	DESCRIPTION	FIG/ITEM	PART No.	DESCRIPTION	FIG/ITEM
00399	LABEL-BOBCAT	12 /2	2182391	PLATE-SEAT	7 /10
108009-04	CONTROL-CHOKE 40.0	4 /4	2182404	PLATE, KICK	1 /41
108029	PLUG,MAGNETIC	3 /4	2182405	BRKT-REVERSE RETURN	1 /18
108055	BATTERY	1 /4	2182418	HEATSHIELD	5 /6
108061-13	CABLE-BATTERY 36" RED	9 /3	2182420	BAR-BUMPER	5 /10
108205-03	ELBOW, MALE 45 8X10 37-ORB	3 /6	2182427	HOLDDOWN-BATTERY	1 /32
108208	SWITCH DBL POLE	1 /35	2182432	BRACKET-RELAY	1 /5
112386	BOOT,BAT TERM POS	1 /34	2182434	BRKT-TRACTION LEVER	4 /6
118020-09	CONTROL-THROTTLE 40.00	10 /14	2182435	ARM-BUMPER	5 /1
118036	HEX CAP 3/8 PIPE	1 /57	2182435	ARM-BUMPER	11 /11
128010	KEY SWITCH	9 /8	2182442	BRACE-VERTICAL	5 /9
128010	KEY SWITCH	10 /13	2182444	BRKT-COOLER FRONT	11 /2
128037	RELAY	9 /9	2182445	BRKT-COOLER REAR	11 /19
128102	SPRING,EXTENSION	6 /4	2182446	BRKT-OIL COOLER	11 /3
148082-20	FUSE 20 AMP	9 /2	2182447	SCREEN-OIL COOLER	11 /4
158058-04	FITTING-BARB 90, ADJ	3 /5	2183056	SHAFT, BRAKE	6 /11
158058-07	FITTING-90 BARB, ADJ	3 /11	2183063-01	SPACER, 32MM LONG	6 /19
158135-01	SWITCH-SEAT, NO	7 /4	2183064	ROD-BRAKE	6 /30
158135-01	SWITCH-SEAT, NO	9 /4	2183069	ROD-PROP	7 /12
158136	WIRE-SEAT SWITCH	7 /9	2183073	SPACER	4 /19
158136	WIRE-SEAT SWITCH	9 /5	2186128	WLDMT-BRAKE ARM LH	6 /2
188059-11	S SWASH PLATE #2003087	8 /32	2186141	WLDMT-CLUTCH STOP	2 /7
188059-13	S BRG CRADLE #2003023	8 /47	2186142	WLDMT-BRAKE ARM RH	6 /3
188059-14	USE 188059-16	8 /39	2186143	WLDMT-BRAKE LEVER ARM	6 /5
188059-15	S ARM-TRUNION #2003005	8 /37	2186144	WLDMT, BUMPER	5 /3
188059-9	S GUIDE SLOT #2000015	8 /38	2186147	WLDMT-CLUTCH BRACKET	2 /8
198057	SEAT	7 /1	2186148	S ENGINE DECK W/LABS	1 /3
198059	ARM REST ASSY - L	7 /3	2186148	S ENGINE DECK W/LABS	2 /23
198062	SLIDE RAIL - SLAVE	7 /8	2186148	S ENGINE DECK W/LABS	4 /1
198063	SLIDE RAIL - ADJ	7 /7	2186148	S ENGINE DECK W/LABS	5 /2
198066	ARM REST ASSY - R	7 /2	2186148	S ENGINE DECK W/LABS	6 /1
2000572	LABEL-WARNING BLADES	12 /12	2186148	S ENGINE DECK W/LABS	10 /4
2000577	LABEL, WARNING	12 /13	2186148	S ENGINE DECK W/LABS	11 /1
2000590	LABEL, WARN BATTERY	12 /4	2186150	S HYD-RESERVOIR W/LABS	1 /6
2000611	LABEL, RANSTRIPE 48 MS	12 /14	2186150	S HYD-RESERVOIR W/LABS	3 /1
2000673	DECAL - OP MAN/TIRES	12 /3	2186150	S HYD-RESERVOIR W/LABS	11 /6
2000677	LABEL-DANGER/WARNING	12 /15	2186151	S CONTROL PANEL W/LABS	10 /3
2000683	LABEL - ZT HT CUT	12 /16	2186167	WLDMT-MOTION CNTRL SHFT LH 1	1 /61
2000691	LBL - HYDR OIL FILL	12 /5	2186167	WLDMT-MOTION CNTRL SHFT LH 4	20
2000692	LBL-CONTROL PANEL	12 /6	2186171	WLDMT-PUMP ARM	1 /13
2000693	LBL - PARK BRAKE	12 /7	2188124	ENGINE-KOHLER CV20S	1 /1
2000694	LBL - INSIDE HOC	12 /17	2188125	ENGINE-KOHLER CV25S	1 /58
2000695	LBL - WARN/USING	12 /18	2188126-01	MOTOR-ASSY HYDRAULIC	3 /10
2000696	LBL - BLADE INSTALL	12 /19	2188126-01	MOTOR-ASSY HYDRAULIC	6 /12
2000698	LBL(DBL) - FUEL/LEAKS	12 /8	2188128	BELT-TRACTION DRIVE	2 /25
2000700	LBL - RH TRACTION	12 /10	2188139	SPRING-COMPRESSION	1 /27
2000701	LBL - LH TRACTION	12 /11	2188140	TURNBUCKLE	1 /15
2000705	LABEL-TIRES	12 /9	2188144	GRIP, .75ID X 12	4 /8
2000706	LABEL-FUEL	12 /20	2188145	BEARING-.75ID BRZ SLF ALIGN	1 /22
2000749	LABEL-ENVIRODECK DIE CUT	12 /21	2188145	BEARING-.75ID BRZ SLF ALIGN	4 /9
2122289	GUARD-MUFFLER	1 /38	2188145	BEARING-.75ID BRZ SLF ALIGN	6 /23
2182344	LEVER-CONTROL	4 /5	2188146	STRIP, WEAR	1 /44
2182387	GUIDE-SPRING	6 /7	2188147	ASSY, BRAKE CW (LH)	6 /51

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REVISION:

DATE:

CROSS REFERENCE

PART No.	DESCRIPTION	FIG/ITEM	PART No.	DESCRIPTION	FIG/ITEM
2188147	ASSY, BRAKE CW (LH)	6 /9	38219	SPRING-TENSION	2 /20
2188147-01	BRACKET-MACHINED	6 /40	38304-02	BRG, FLGD PLASTIC	1 /47
2188147-02	PAD-CAM SIDE	6 /41	38345	PUMPBDP10L-119HYDROGR	1 /2
2188147-03	PAD-SUPPORT	6 /42	38345	PUMPBDP10L-119HYDROGR	3 /14
2188147-04	SPRING-LEVER RETAINER	6 /44	38345-01	S-2513018 SEAL KIT	8 /48
2188147-05	HOUSING	6 /45	38345-02	S-2510008 POPPET VALVE-KIT	8 /51
2188147-06	CAM	6 /46	38345-03	S-2510027 CHECK BALL KIT	8 /52
2188147-07	PIN-PIVOT	6 /47	38345-04	S-2513017 HOUSING KIT	8 /54
2188147-08	PAD-CARRIER SIDE	6 /48	38345-05	S-2510011 CHARGE RELIEF-KIT	8 /50
2188147-09	PAD-SUPPORT	6 /49	38345-06	S-2003040 HSNG, CHARGE PMP	8 /6
2188148	ASSY, BRAKE CCW (RH)	6 /37	38345-07	S-J1041008 GEROTOR ASSY	8 /7
2188148-01	CAM RH	6 /50	38345-08	S-9004101-1340 O-RING	8 /8
2188149	HUB, WHEEL AND DISC	6 /14	38345-09	S-J1030673 SHAFT	8 /18
2188151	CLUTCH, ELECTRIC	2 /6	38345-10	S-9007375-0038 SCREW, SKT HD	8 /10
2188151-01	S ROTOR/PULLEY ASSY	2 /30	38345-11	S-9007314-0810 SCREW, SKT HD	8 /4
2188151-02	S FIELD ASSY	2 /31	38345-12	S-9007314 CYLINDER BLOCK KIT	8 /49
2188152	DAMPENER	1 /28	38345-13	S-2513016 END CAP KIT	8 /53
2188153	SWITCH, CLUTCH	9 /11	38345-14	S-2003067 GASKET	8 /5
2188153	SWITCH, CLUTCH	10 /15	38369-01	ROD END BALL JOINT	1 /31
2188154	MODULE-DELAY	9 /10	38369-02	ROD END BALL JOINT	1 /14
2188154	MODULE-DELAY	10 /27	38371-01	BRG-NYLINER 3/8	7 /17
2188155	GRIP, 1/4X1X4-1/2	6 /18	38540	VALVE-FUEL W/FILTER	10 /19
2188156	SWITCH-NONODBL POLE	1 /36	38542	CLAMP-DOCUMENT TUBE	10 /7
2188157-01	HOSE-HYD ORB-37 22.38 IN	3 /8	450766	SKT HD CAPSCREW 12-1.75X100	6 /31
2188157-02	HOSE-HYD ORB-37 25.00 IN	3 /9	48016-13A	HOSE, .25IDX.50ODX2 LG	10 /23
2188159	TANK-FUEL LH	10 /1	48016-21A	HOSE-.25IDX.50ODX1.84 LG	10 /24
2188160	TANK-FUEL RH	10 /2	48016-22A	HOSE-.25IDX.50ODX1.67 LG	10 /25
2188161	VALVE-TANK SELECTOR	4 /3	48024-9A	NIPPLE-PIPE 3/8X6	1 /56
2188161	VALVE-TANK SELECTOR	10 /22	48030N	HOURLY METER ASSEMBLY	4 /2
2188163	HARNESS-WIRING 942200-02-05	9 /1	48030N	HOURLY METER ASSEMBLY	9 /6
2188171	ENGINE, KOHLER CV22S	1 /60	48228-2A	CABLE CLIP 3/4 W/INSTN	11 /18
2188173	COOLER-OIL	11 /5	48228A	CABLE CLIP-INSULATED	7 /18
2188178	SWITCH-RETAINER	9 /12	48306A	CABLE, SOL. TO STARTER	9 /7
2188178	SWITCH-RETAINER	10 /30	48310	S BUSHING, FUEL TANK	10 /18
2188179	FILTER-25 MICRON SMALL CAN	3 /2	58026-01	3 WAY CONNECTOR 3/8	3 /12
2188188	PULLEY-4.25	2 /5	58026-01	3 WAY CONNECTOR 3/8	11 /10
2198096	SCREW-CAP W/.375 WSHR HD	7 /14	64006-01	LOCKWSHR-HELICAL 1/4	2 /29
2198156	WHEEL ASSY-23x10.5-12 4P	6 /13	64006-01	LOCKWSHR-HELICAL 1/4	10 /10
2198156-01	RIM ASM, W/VALVE STEM & CAP	6 /38	64006-03	LOCKWSHR-HELICAL 3/8	2 /21
2198156-02	TIRE-23X10.5-12 4P MULTI-TRAC	6 /39	64006-05	LOCKWSHR-HELICAL 1/2	6 /34
2206184	S-DOCUMENT TUBE W/DECAL	10 /5	64006-06	LOCKWSHR-HELICAL 7/16	2 /12
2306082	WLDMT-IDLER ARM	2 /15	64025-03	NUT-HEX 5/16-24	1 /26
2308000	PULLEY-IDLER 4.00 EOD	2 /14	64025-04	NUT-HEX 3/8-24	4 /17
2308073	CAP-FUEL TANK	10 /6	64025-04	NUT-HEX 3/8-24	6 /28
2308076-01	BEARING-PLASTIC	2 /9	64025-15	NUT-HEX #10-24 KEPS	1 /53
2308095	COVER-TERMINAL	1 /40	64025-15	NUT-HEX #10-24 KEPS	10 /16
2308148	PUMP-PULLEY	2 /1	64025-31	NUT 1-20 UNSLOTTED TRW	6 /35
33148-01	SPACER	2 /19	64025-33	NUT-HEX 5/16-24 LH	1 /55
33213	ROD-SPD CTRL UPPER	6 /6	64044-18	SCREW-SET 5/16-18 x 5/16	2 /2
38020-01	CLEVIS YOKE, 3/8 PLATE	6 /29	64061-25	ROLL PIN-1/4X1-1/4	6 /17
38020N	CLEVIS YOKE, 5/16 PLATE	1 /23	64123-15	BLT-HEX 3/8-16X3/4	1 /45
38020N	CLEVIS YOKE, 5/16 PLATE	6 /8	64123-15	BLT-HEX 3/8-16X3/4	4 /10
38061A	SPINDLE SHIELD	10 /9	64123-15	BLT-HEX 3/8-16X3/4	6 /24

CROSS REFERENCE

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PART No.	DESCRIPTION	FIG/ITEM	PART No.	DESCRIPTION	FIG/ITEM
64123-155	BLT-HEX 7/16-20X3	2 /26	64237-03	LOCKNUT-NYLON M10-1.5	11/14
64123-205	BLT-HEX 5/16-24X4	1 /21	64237-05	LOCKNUT-NYLON M8-1.25	1 /30
64123-21	BLT-HEX 3/8-24X1-1/4	2 /22	64237-05	LOCKNUT-NYLON M8-1.25	2 /13
64139-02	BLT-WLF 1/4-20X1/2	7 /6	64238-03	KEY-METRIC 5MM SQ X 28MM	2 /3
64139-16	BLT-WLF 5/16-18X5/8	7 /5	64243-02	BLT-CRGM10-1.50X20	1 /50
64141-4	NUT-WLF 3/8-16	1 /11	64243-03	BLT-CRGM8-1.25X20	2 /10
64141-4	NUT-WLF 3/8-16	4 /11	64246-03	NUT-WHIZ M10-1.50	1 /20
64141-4	NUT-WLF 3/8-16	6 /25	64251-004	WHSR-M10	1 /9
64141-6	NUT-WLF 5/16-18	7 /11	64251-004	WHSR-M10	5 /7
64144-34	SNAP RING .50	6 /22	64251-004	WHSR-M10	10/21
64152-23	1/4-20X3/8 LG SP SCREW	1 /46	64251-004	WHSR-M10	11/13
64152-23	1/4-20X3/8 LG SP SCREW	5 /8	65103A	BEARING BUSHING	2 /18
64152-23	1/4-20X3/8 LG SP SCREW	7 /19	69053	HOSE-3/8 HI TEMP BULK	3 /7
64152-43	#8-18X1/2 S-TAP SCREW	1 /39	69053-11	HOSE-3/8 HIGH TEMP 23.00 LG	11 /8
64152-46	SCR-SLTHH 10-24X1/2	1 /52	69053-12	HOSE-3/8 HIGH TEMP 24.00 LG	11 /7
64152-46	SCR-SLTHH 10-24X1/2	10 /17	69214-01	CAP-RESERVOIR	3 /3
64163-03	WSHR-.256ID X .62OD X 18 GA.	10 /29	800488	LOCK WASHER M10	4 /16
64163-06	WSHR.768/.756X1.25X14G	6 /10	800488	LOCK WASHER M10	10/20
64163-34	WSHR.256/.267X1X11GA	2 /28	810149	BUMPER-RUBBER	1 /48
64163-55	WSHR.328X.75X14 GA	1 /43	831861	BOLT, BENT BATTERY HOOK	1 /10
64163-65	WSHR.890X1.375X18GA	2 /17	85010N	ZERK, 1/4-28 STR SELF THD	2 /16
64164-08	S-KEY FOR WHEEL MOTOR	6 /36	85010N	ZERK, 1/4-28 STR SELF THD	6 /21
64164-10	1/4X1/4X1-1/4 MACHKEY	2 /4	88042N	HOSE CLAMP	10/12
64168-2	HAIRPIN COTTER	1 /25	970095	ATT-ROPS (200 SERIES ZT)	7 /20
64168-2	HAIRPIN COTTER	6 /27	A1102966	BOLT-M6-1.00X16	1/11
64168-2	HAIRPIN COTTER	7 /13	A1102966	BOLT-M6-1.00X16	11/16
64175-04	PUSHNUT 3/8 DIA	7 /16	A1104057	BOLT-M10-1.50X25	1 /19
64188-02	PIN, CLEVIS 5/16X1	1 /24	A1104057	BOLT-M10-1.50X25	4 /18
64188-02	PIN, CLEVIS 5/16X1	6 /16	A1104057	BOLT-M10-1.50X25	5 /4
64188-03	S PIN, CLEVIS 3/8X1-1/8	6 /26	A1104057	BOLT-M10-1.50X25	11/12
64188-38	PIN, CLEVIS 3/8X1 W/O HOLE	7 /15	A110406	SCREW, M10X1.5X30 HH 10/PK	1 /7
64192-03	SET SCREW SQ HD 5/16-24X5/8	1 /33	A110406	SCREW, M10X1.5X30 HH 10/PK	4 /14
64197-005	BLT-TDFM 3/8-16X1-1/4	2 /11			
64197-015	BLT-TDFM 10-32X1/2 TORXHD	1 /37			
64197-015	BLT-TDFM 10-32X1/2 TORXHD	10 /28			
64197-016	BLT-TDFM 3/8-16X1/2	1 /8			
64205-003	BLT-METRIC M8-1.25X30	1 /16			
64205-007	BLT METRIC M10-1.50X20	1 /42			
64205-007	BLT METRIC M10-1.50X20	10 /8			
64205-007	BLT METRIC M10-1.50X20	11 /15			
64205-011	BLT-METRIC M10-1.50X40	4 /13			
64205-013	BLT-METRIC M6-1X12	2 /27			
64207-07	NUT-HEX M12-1.75	6 /33			
64220-02	BLT-WHL 7/16-20X.7575D	6 /15			
64221-04	E-RING .875	2 /24			
64229-02	LOCKNUT-NYLON 5/16-18	1 /17			
64229-08	LOCKNUT NYLON 5/16-24	1 /54			
64237-02	LOCKNUT-NYLON M6-1.00	11 /17			
64237-03	LOCKNUT-NYLON M10-1.5	1 /12			
64237-03	LOCKNUT-NYLON M10-1.5	1 /51			
64237-03	LOCKNUT-NYLON M10-1.5	4 /15			
64237-03	LOCKNUT-NYLON M10-1.5	5 /5			



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