



TOURNAMENT ULTRA - 47540D

SN: T2619

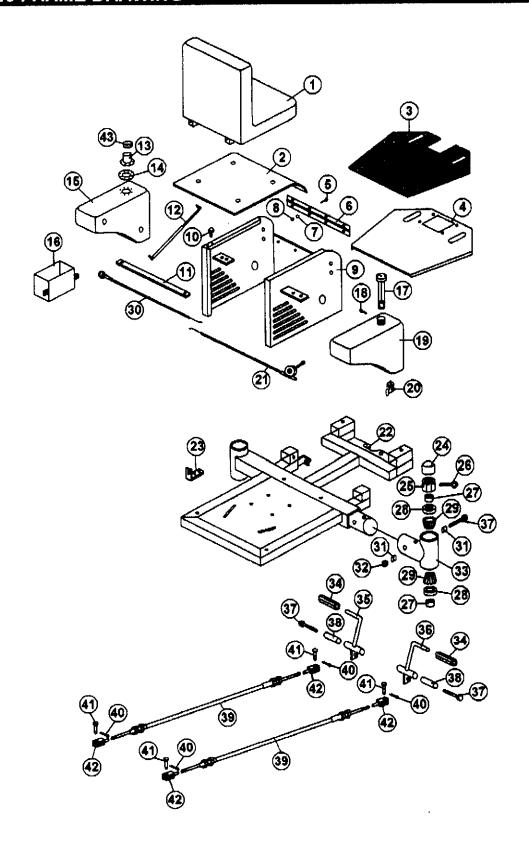
Revised September, 2009

Product Support: 1020 Hwy 224; Humboldt, KS 66748 1-888-422-5173 lj@smithco.com

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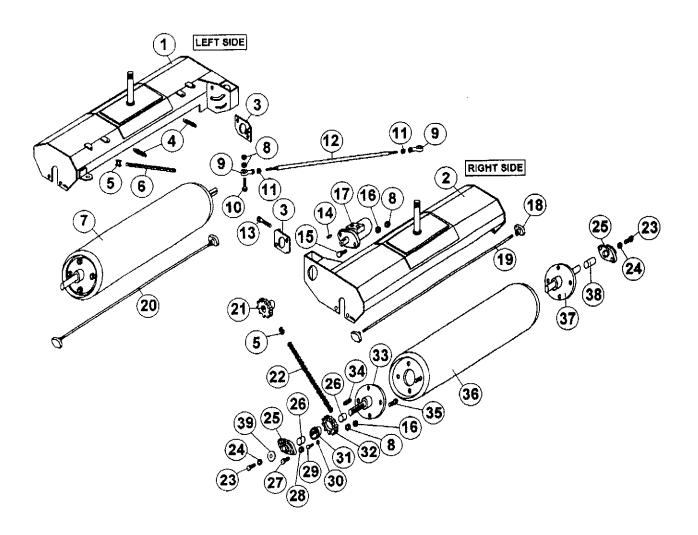
7540 FRAME DRAWING



7540 FRAME PARTS LIST

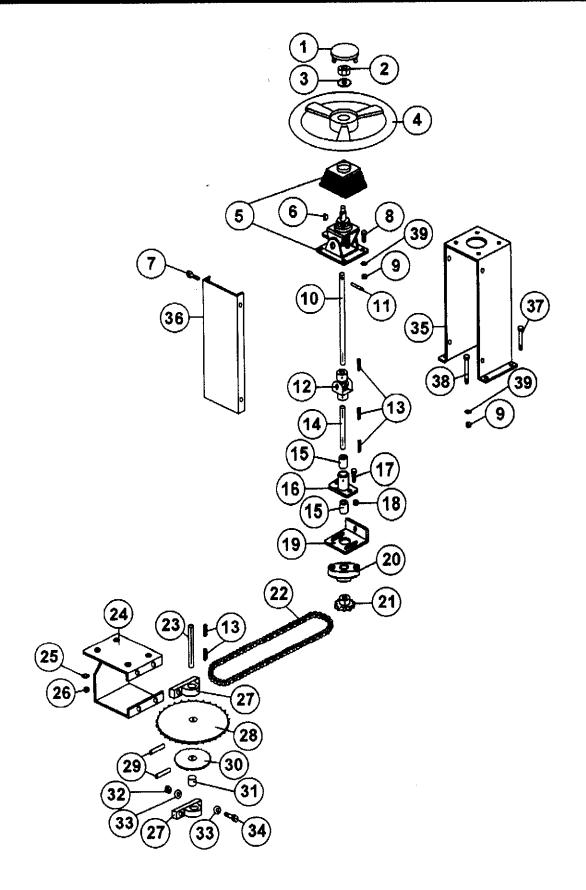
1 832-123	REF#	F# PART# DESCRIPTION				
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33 750-166 Swivel Axle Bracket 1 34 943-127 Accelerator Pedal Pad 2 35 750-642 Left Foot Pedal 1 36 750-643 Right Foot Pedal 1 37 400-061 ½" - 13 x 3 ½" HHCS 3 38 10-007 Oilite Bushing 4 39 44-001 Control Cable 2 40 720-079 Cotter Pin 3/32 x ¾" 6 41 720-078 5/16" x 1" Clevis Pin 4 42 11-102 ¼" Fine Thread Yoke w/5/16" Pin 4				1		
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35 750-642 Left Foot Pedal 1 36 750-643 Right Foot Pedal 1 37 400-061 ½" - 13 x 3 ½" HHCS 3 38 10-007 Oilite Bushing 4 39 44-001 Control Cable 2 40 720-079 Cotter Pin 3/32 x ¾" 6 41 720-078 5/16" x 1" Clevis Pin 4 42 11-102 ¼" Fine Thread Yoke w/5/16" Pin 4			Accelerator Pedal Pad			
36 750-643 Right Foot Pedal 1 37 400-061 ½" - 13 x 3 ½" HHCS 3 38 10-007 Oilite Bushing 4 39 44-001 Control Cable 2 40 720-079 Cotter Pin 3/32 x ¾" 6 41 720-078 5/16" x 1" Clevis Pin 4 42 11-102 ¼" Fine Thread Yoke w/5/16" Pin 4			Left Foot Pedal			
37 400-061 ½" - 13 x 3 ½" HHCS 3 38 10-007 Oilite Bushing 4 39 44-001 Control Cable 2 40 720-079 Cotter Pin 3/32 x ¾" 6 41 720-078 5/16" x 1" Clevis Pin 4 42 11-102 ¼" Fine Thread Yoke w/5/16" Pin 4			Right Foot Pedal			
38 10-007 Oilite Bushing 4 39 44-001 Control Cable 2 40 720-079 Cotter Pin 3/32 x ¾" 6 41 720-078 5/16" x 1" Clevis Pin 4 42 11-102 ¼" Fine Thread Yoke w/5/16" Pin 4			½" – 13 x 3 ½" HHCS			
39 44-001 Control Cable 2 40 720-079 Cotter Pin 3/32 x ¾" 6 41 720-078 5/16" x 1" Clevis Pin 4 42 11-102 ¼" Fine Thread Yoke w/5/16" Pin 4		10-007	Oilite Bushing			
40 720-079 Cotter Pin 3/32 x ¾" 6 41 720-078 5/16" x 1" Clevis Pin 4 42 11-102 ¼" Fine Thread Yoke w/5/16" Pin 4		44-001	Control Cable			
41 720-078 5/16" x 1" Clevis Pin 4 42 11-102 ½" Fine Thread Yoke w/5/16" Pin 4		720-079	Cotter Pin 3/32 x 3/4"			
42 11-102 ½" Fine Thread Yoke w/5/16" Pin 4						
- · · - · · · · · · · · · · · · · · · ·						
		750-292	Oil Filler Breather	1		

7540 ROLLER HOUSING DRAWING



7540 ROLLER HOUSING PARTS LIST

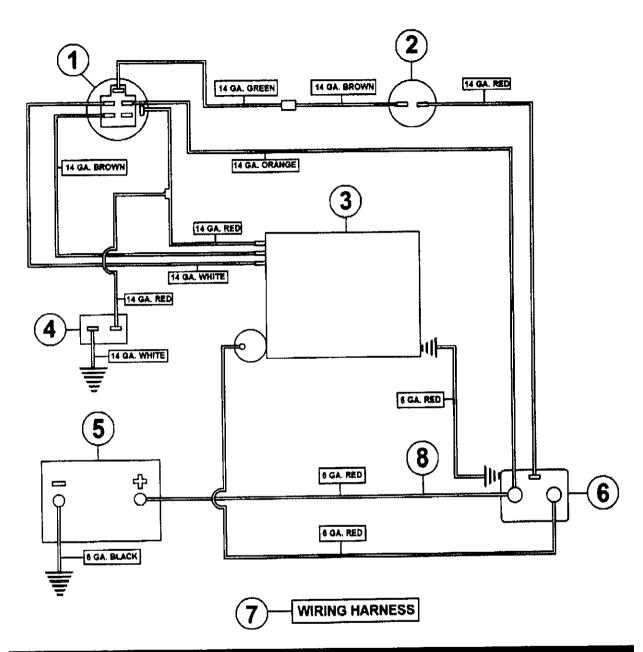
REF#	# PART# DESCRIPTION			
1	750-103	Left Roller Housing	1	
2	750-104	Right Roller Housing	1	
3	750-123	Hydraulic Motor Adjuster Plate	2	
4	40-199	Idler Spring	2	
5	1083	#50 Master Link	3	
6	750-248	#50 Chain 64 Pitch	1	
7	750-220	Roller Assembly	2	
8	400-105	1/2" – 13 Hex Nut	2 8 2	
9	713-806	Ball Joint	2	
10	400-056	½" – 13 X 2 ½" HHCS	2	
11	400-136	½" – 20 Fine Thread Hex Nut	2	
12	750-242	Tie Rod	1	
13	400-029-1	½" – 13 x 3" All Thread Bolt	2	
14	750-217	1⁄4" x 1" Key	2 2	
15	400-027	½" – 13 x 1 ½" HHCS	4	
16	400-210	½" Lockwasher	4	
17	750-129	Hydraulic Wheel Motor	2	
18	750-210-2	Scraper Knob	2	
19	750-210-1	Scraper Rod	4	
20	750-210	Scraper Assembly	2	
21	750-131	#50 BS 15 x 1" Sprocket	2	
22	750-718	#50 Chain 42 Pitch	2	
23	400-044	1/4" – 20 x 1" Bolt	4	
24	400-208	1/4" Lockwasher	4	
2 4 25	720-004	Flange Bearing	4	
	750-335	Spacer 1 ½"	2	
26 27		3/8" – 16 x 1 1/4" HHCS	8	
27	400-090	3/8" – 16 Locknut 2-Way	8	
28	400-116	1/4" x 1 1/4" Bolt Grade 5	6	
29	750-720		6	
30	400-208	1/4" Lockwasher	2	
31	709-202	SH x 1" Bushing	2 2	
32	750-634	#50 SH 17T Sprocket	2	
33	750 - 220-1	Hub w/Plate, Bushing & Keyed Shaft	2	
34	1517	1/4" x 1" Key	16	
35	1189	Lug Bolt	2	
36	750-220-3	Roller w/Plate & Pipe	2	
37	750-220-2	Hub w/Plate, Bushing & Shaft	2	
38	750-721	Spacer 1 1/4"	4	
39	1094	Washer	4	



7540 STEERING PARTS LIST

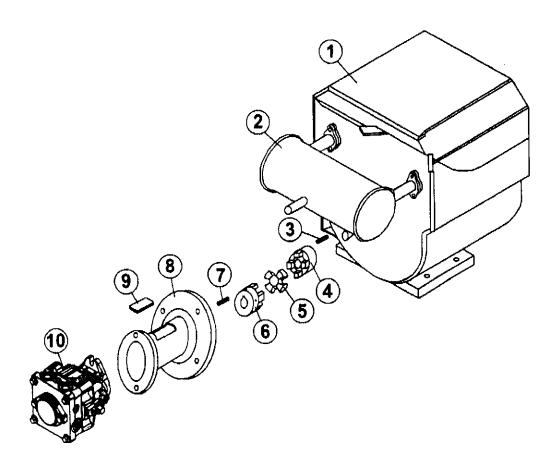
REF#	PART#	QTY.	
1	730-046-2	Steering Wheel Cap	1
2	932-122	5/8" – 18 Hex Jam Nut	1
3	400-143	5/8" Lock Washer	1
4	730-046	Steering Wheel w/Cap	1
5	832-028	Tilt Steering Mechanism & Boot	1
6	740-023	3/16" x ¾" Key	1
7	400-073	1/4" x 1" Self Tap Screw	4
8	400-003	5/16" – 18 x 1 1/4" HHCS	4
9	400-102	5/16" - 18 Hex Nut	8
10	750-286	Upper Steering Shaft	1
11	832-030	7/32" x 1 1/4" Spring Pin	1
12	41-120	U-Joint 3/4" x 3/4"	1
13	1088	3/16" x 1" Key	5
14	750-266	Steering Sprocket Shaft	1
15	520-007	Bronze Bushing	2
16	750-195	Steering Tube	1
17	400-005	5/16" – 18 x 1 3/4" HHCS	2
18	400-109	5/16" - 18 Locknut	2
19	41-194	Chain Adjuster Bracket	1
20	1036	Jackshaft Bearing	1
21	1075	#40 Jackshaft Sprocket 11T	1
22	41-251	#40 Chain x 108 Pitch	1
23	750-148-1	Sprocket & Bearing Shaft 5 ½"	1
24	750-243	Bearing & Sprocket Bracket	1
25	400-103	3/8" - 16 Hex Nut	4
26	400-209	3/8" Lock Washer	4
27	1040	Front Axle Bearing	2
28	750-234	40BS 60T Sprocket	1
29	750-315	1/4" x 2 1/2" Spring Pin	2
30	750-133	50BS 19 x 3/4" Sprocket	1
31	750-722	1" Spacer (3/4" İD)	1
32	400-116	3/8" - 16 Locknut	4
33	400-202	5/16" Flat Washer	4
34	400-015	3/8" - 16 x 1 1/2" HHCS	4
35	750-106	Steering Column	1
36	750-107	Steering Column Cover	1
37	400-314	5/16" x 4 1/2" Bolt	2
38	400-010	5/16" - 18 x 5" HHCS	2
39	400-207	5/16" Lock Washer	8

7540 WIRING DRAWING



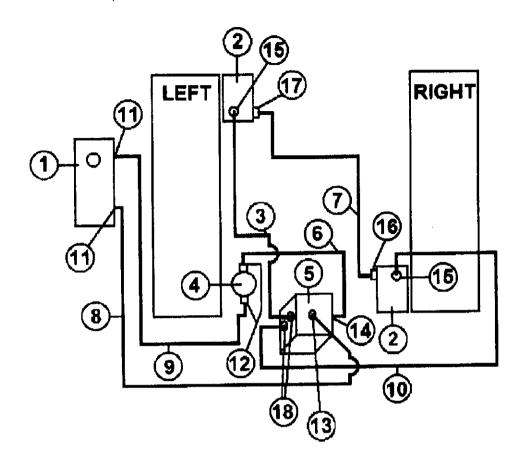
WIRING			
REF#	PART#	DESCRIPTION	QTY.
1	932-071	Key Switch	1
2	932-119-1	Safety Seat Switch	1
3	943-100	16 HP Vanguard Twin Engine	1
4	44-873	Hour Meter	1
5		Battery	
6	932-072	Solenoid	1
7	750-265	Wiring Harness	1
8	750-401	Battery Wire 6GA Red 33"	1

7540 ENGINE DRAWING



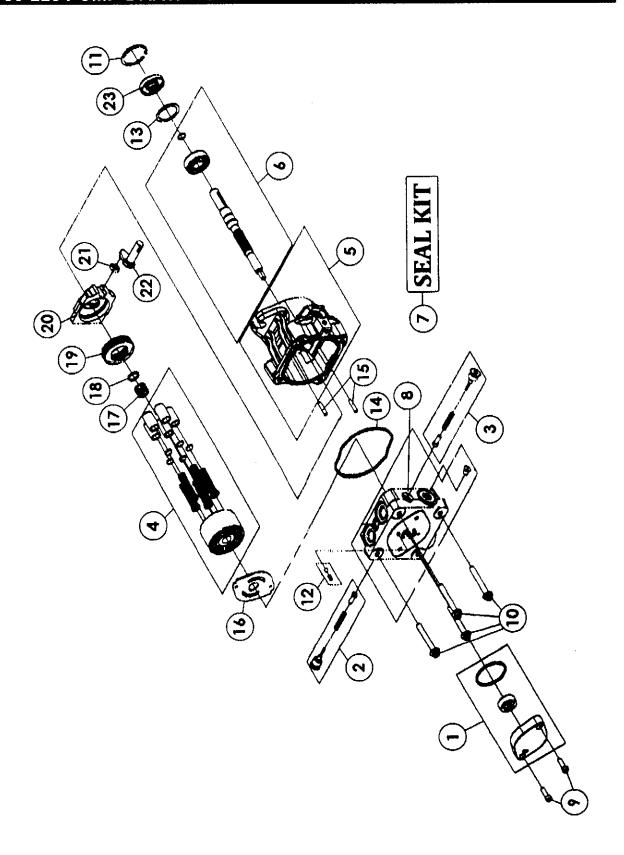
REF#	PART#	DESCRIPTION	QTY.
1	943-100	16 HP Engine (Model# 303447 Type 1131-E1)	1
2	943-115	Muffler	1
3	1517	1⁄4" x 1" Key	1
4	750-137	Pump Hub	1
5	720-027	Element	1
6	41-147	Engine Coupling 1"	1
7	750-201	3/16" x 1" Key	1
8	750-255	Bell Housing	1
9	750-127-1	Bell Housing Cover	1
10	750-228	Hydro Pump	1
		•	

HYDRAULIC PLUMBING DRAWING



HYDRAULIC PLUMBING PARTS LIST

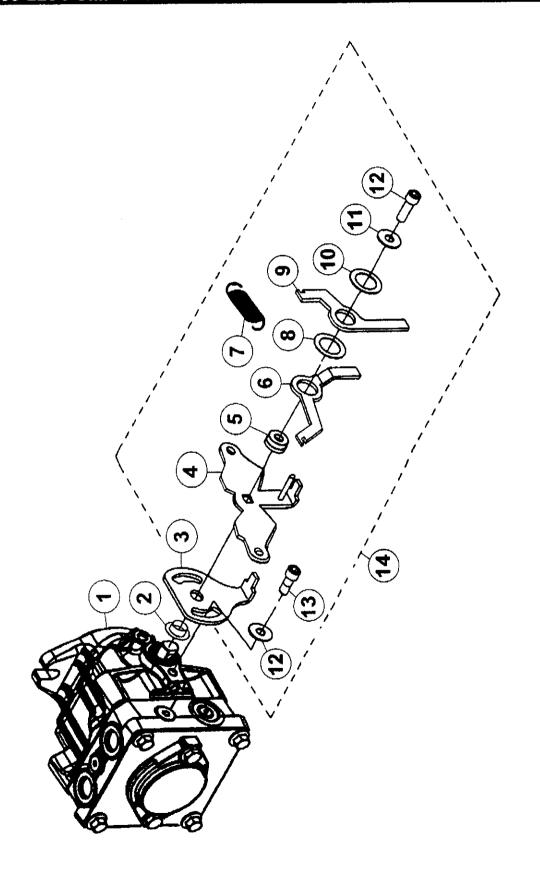
REF#	PART#	DESCRIPTION	QTY.
1 2 3 4 5 6 7 8 9	943-111 750-129 750-320 750-302 750-228 750-310 750-321 750-305 750-306 750-319	Oil Tank Wheel Motor 43" Hose from Left Wheel Motor - Pump Filter Head Pump 25 1/4" Hose from Filter Head – Pump 35" Hose from Wheel Motor – Wheel Motor 13 3/4" Hose from Tank – Pump 10" Hose from Tank – Filter Head 56" Hose from Right Wheel Motor – Pump 8-10 Tank Fitting Str.	QTY. 1 2 1 1 1 1 1 1 1 2
11 12 13 14 15 16 17	750-326 750-325 750-324 750-294 750-207 750-197 750-295 750-322	8-12 Filter Fitting Str. 8-6 90° Pump Fitting 6-8 Straight Fitting Wheel Motor Elbow Wheel Motor Elbow 45° 8-8 Straight Fitting 45° Fitting	2 1 1 2 1 1 2



750-228 PUMP PARTS LIST

REF#	PART#	QTY.	
	750 000 05	Charan Duma Kit	1
1	750-228-25	Charge Pump Kit Shock Valve	1
2	750-228-26		1
3	750-228-29	Shock Valve	1
4	750-128-25	Cylinder Block Kit	1
5	750-228-5	Housing	1
6	750-228 - 6	Pump Shaft 15mm	
7	750-228-7	Seal Kit	1
8	750-228-8	End Cap	1
9	750-228-9	M x 1. X 25 mm Bolt	2
10	750-228-10	M8 x 1.25 x 60 Bolt	4
11	750-228-11	Retaining Ring	1
12	750-228-12	Charge Relief	1
13	750-228-13	Spacer	1
14	750-228-14	O-Ring	1
15	750-228-15	Pin	2
16	750-228-16	Valve Plate	1
17	750-228-17	Spring	1
18	750-228-18	Thrust Washer	1
19	750-228-19	Thrust Bearing	1
20	750-228-20	Swash Plate	1
21	750-228-21	Slot Guide	1
22	750-228-22	Trunnion Arm	1
	750-228-4	Lip Seal	1
23	/50-220-4	Lip Oeai	•

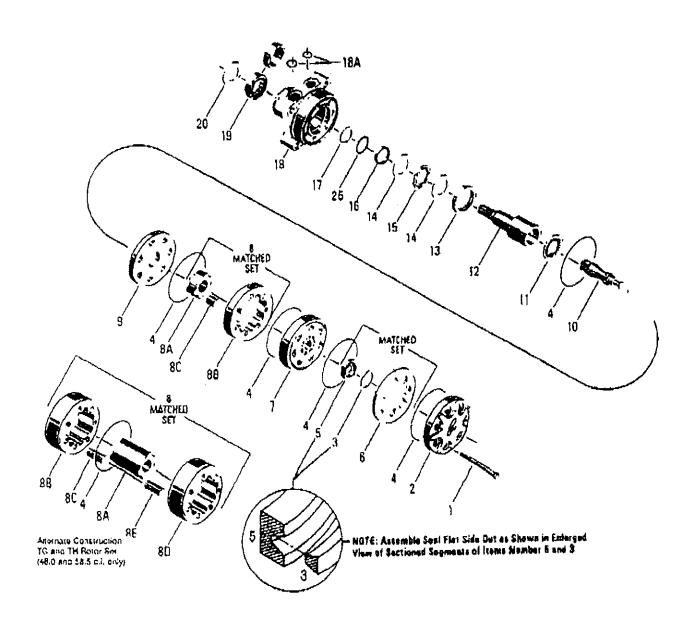
750-228 PUMP LINKAGE DRAWING



750-228 PUMP LINKAGE PARTS LIST

REF.#	REF.# PART# DESCRIPTION		QTY.
1	750-228	Pump	1
2	750-228-30	Bushing	1
3	750-343-1	Shift Lever Top (New)	1
3	750-343	Shift Lever Top (Old)	1
4	750-344-1	Shift Lever Bottom (Sq. Hole 470)	1
4	750-344	Shift Lever Bottom (Sq. Hole .350)	1
5	750-228-31	Bushing	1
6	750-345	Shift lever Right	1
7	750-229-1	Spring	1
8	750-228-32	Washer	1
9	750-346	Shift Lever Left	1
10	750-228-33	Washer	1
11	750-228-34	5/16" Flat Washer	2
12	750-228-35	Allen Head Bolt	1
13	750-228 - 36	Allen Head Bolt	1
14	750-228-37	Parts Kit	1

750-129 WHEEL MOTOR DRAWING



750-129 WHEEL MOTOR PARTS LIST

REF.#	PART#	DESCRIPTION	QTY.
1	751-129-1	Special Bolts	5
2	751-129-2	End Cover	1
3	751-129-3	Commutator Seal	1
4	751-129-4	Seal Ring	5
5	751-129-5	Commutator	1
6	751-129 - 6	Commutator Ring	1
7	751-129-7	Manifold	1
8	751-129-8	Rotor Set	1
9	751-129-9	Wear Plate	1
10	751-129-10	Drive Link	1
11	751 -1 29-11	Thrust Bearing	1
12	751-129-12	Coupling Shaft	1
13	751 - 129-13	Bearing / Bushing, Inner	1
14	751-129 - 14	Thrust Washer	2
15	751-129-15	Thrust Bearing	1
16	751-129-16	Shaft Seal	1
17	751-129 - 17	Backup Ring	1
18	751-129-18	Housing	1
18A	751-129 - 18A	O-Ring [®]	2
19	751-129-19	Bearing / Bushing, Outer	1
20	751-129-20	Dirt & Water Seal	. 1

NOTE: Apply .06 in. (1.5mm) Bead of Loctite #51514 around full circumference of pilot *Items sold separately; not included in Seal Kit.

The Overhaul Seal Kit is a part# 750-212.

Clutch Motor applies to TF Series only (Not available in 22, 25, 29 cu in.)

SHC Oil 90 WT 45± 5CC

PERFORMANCE CHART



Product Type		PC	PG	PJ	PR	PW
Displacement	in³/rev	0.37	0.62	0.73	0.97	1.33
	[cc/rev]	[6.1]	[10.2]	[12]	[16]	[21.8]
Input Speed Maximum Unloaded Minimum Loaded	rpm rpm	3600 1800	3600 1800	3600 1800	3600 1800	3600 1800
System Operating Pressure Continuous	psi	750	1000	1000	1250	1250
	[bar]	[51]	[70]	[70]	[86]	[86]
Intermittent	psi	1750	2100	2100	2500	2500
	[bar]	[120]	[145]	[145]	[172]	[17 2]
Peak	psi	2500	3500	3500	3750	3750
	[bar]	[172]	[240]	[240]	[260]	(260]
Pump Performance @ 2400 rpm/1000 psi @ 3000 rpm/1000 psi @ 3600 rpm/1000 psi	gpm [l/min] gpm [l/min] gpm [l/min]	3.6 [13.6] 4.5 [17.0] 5.4 [20.4]	6.1 [23.1] 7.6 [28.8] 9.2 [34.8]	7.1 [26.8] 8.9 [33.6] 10.8 [40.8]	9.6 [36.3] 12 [45.4] 14.4 [54.5]	13.1 [49.6] 16.4 [62.1] 19.6 [74.2]
Case Pressure Maximum @ Cold Start Continuous - Max.	psi [bar] psi [bar]	10 [0.7] 4 [0.3]	10 [0.7] 4 [0.3]	10 [0.7] 4 [0.3]	25 [1.7] 10 [0.7]	25 [1.7] 10 [0.7]
Inlet Vacuum Maximum Continuous Inches Mercury		4	4	4	4	4
Charge Pump Displacement(s)	in³/rev	.13	0.11/0.13	0.19	0.13/0.19	0.13/0.19
	[cc/rev]	[2.1]	[1.9/2.1]	[3.2]	[2.1/3.2]	[2.1/3.2]
Auxiliary Pump Displacement	in ³ /rev	0.19	0.19	0.19	0.19	0.19
	[cc/rev]	[3.2]	[3.2]	[3.2]	[3.2]	[3.2]
Auxiliary Pump Relief Setting	psi	650	650	650	650	650
	[bar]	[45]	[45]	[45]	[45]	[45]
Auxiliary Pump Performance @3200 rpm, 500 psi, 70 SUS [13 Cst] oil, & 180°F	gpm [l/mìn]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]	1.8 - 2.0 [6.8 - 7.6]
Control Torque Required to Stroke Pump [Approximate - 20° External Stroke An !k	gle] o-in / 1000 psi	75	85	85	95	105

lb-	·m / 70 bar] ·in / 500 psi ·m / 35 bar]	[8.5] 55 [6.2]	[9.6] 60 [6.8]	[9.6] 60 [6.8]	[10.7] 75 [8.5]	[11.9] 85 [9.6]
Pump Oil Temperature Maximum Intermittent (hottest point) Normal Operating Range	°F (°C) °F (°C)	230 [110] -10 to 200 (-23 to 93]	230 [110] -10 to 200 [-23 to 93]			
Fluid Viscosity Limits @ 230°F [110°C Optimum Minimum] SUS[cSt] SUS[cSt]	70 (13) 55 (9)	70 [13] 55 [9]	70 [13] 55 [9]	70 [13] 55 [9]	70 [13] 55 [9]
Weight of Unit	lbs [kg]	7 [3.2]	8 [3.6]	12.65 [5.7]	12 [5.4]	14 [6.3]
Inlet Filtration Requirement Nominal	micron	25	25	25	25	25

The Smithco Commercial Products Two-Year Limited Warranty

Smithco, Inc. (Smithco) warrants your 2007 or newer Smithco Commercial Product ("Product") purchased after January 1, 2007, to be free from defects in materials or workmanship for the period of time listed below. Where a warrantable condition exists, Smithco will repair the Product at no cost to you including diagnosis, labor (at the Smithco standard labor rate, subject to the Smithco flat rate schedule), and parts.

Warranty Duration Is:

- 1. Two years, 1500 operational hours* from the date of delivery to the original purchaser or three years from the date of original manufacturer of the product, whichever occurs first. (*Products equipped with hour meter).
- 2. Products used in rental situations are covered for 90 days from date of delivery to original user/renter.

Owner responsibilities:

As the Product owner, you are responsible for required maintenance and adjustments stated in your Owner's Manual. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim. You are particularly responsible to train all present and future operators of this product on the safe operation of this product at your location.

Instructions for Obtaining Warranty Service:

You are responsible for notifying the Authorized Smithco Products Distributor from whom you purchased the Product as soon as you believe a warrantable condition exists and not later than 30 days from discovery of the condition.

If you need help locating an Authorized Smithco Distributor, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Smithco Product Support Department Highway SS @ Poplar St. Cameron, Wisconsin 54822

Telephone: 715-458-4192 E-Mail: <u>ProductSupport@Smithco.com</u>

Maintenance Parts:

Parts scheduled for replacement as required maintenance ("Maintenance Parts"), are warranted for the period of time up to the scheduled replacement time for that part.

Items/Conditions Not Covered:

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. The items/conditions listed below are not covered by this warranty.

Product failures which result from the use of non-Smithco replacement parts, or from installation and use of add-on, modified, or unapproved accessories are not covered.

Smithto Product failures which result from failure to perform required maintenance and/or adjustments are not covered.

Smithco

hea Product failures that result from operating the Product in an abusive, negligent or reckless manner are not covered.

Smithco

This warranty does not apply to parts subject to consumption through use, unless found to be defective. Examples of parts which are consumed, or used up during normal Product operation include, but are not limited to: blades, tines, teeth, scarifiers, rakes, plates, wear plates, castor wheels, tires, batteries, filters, belts, nozzles, etc.

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This warranty does not apply to failures caused by outside influence. Items considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved coolants, lubricants, additives, or chemicals, etc.



This warranty does not apply to normal "wear and tear" items. Normal "Wear and Tear" includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows, etc.



Smithco may require the return of failed parts or components in order determine the validity of any warranty claim.



Smithco will not be obligated to replace components of other manufacturers if inspection by the original component manufacturer indicates that failure was due to normal wear and tear, expected consumption through use or improper care or service.

Other Legal Disclaimers:

The above remedy for product defects through repair or replacement by an authorized Smithco distributor or dealer is the purchaser's sole remedy for any defect. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THERE ARE NO OTHER EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH ABOVE. ALL IMPLIED WARRANTIES OF MERCHANTABLILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE LIMITED WARRANTIES CONTAINED HEREIN.

Some States may not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

THE SMITHCO COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT, INCLUDING ANY COST OR EXPENSE OF PROVIDING A SUBSTITUTE PRODUCT OR SERVICE DURING PERIODS OF MALFUNCTION OR NON-USE.

Some states may not allow the exclusion of indirect, incidental or consequential damages, so the above exclusion may not apply to you.

Smithco neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale or use of this product.

SMITHCO, INC. WANYE, PA 19087 SMITHCO