STINGRAY PUMP 20-70HP PARTS LIST

A. PARTS ORDERING. When ordering parts please provide the following information.

- 1. Serial number of pump (located on nameplate). Size of pump (3 X 2 X 10 or 4 x 5 x 11)
- 2. Part description (located on parts list on the following pages).
- 3. Part number (located on parts list).
- 4. Quantity of parts needed.

For replacement parts contact:

StingRay Tech Services

2450 Adie Road Suite 100

Maryland Heights, MO, 63043

www.stingrayservice.com

Toll-free: 800-543-6278

Switchboard: 314-567-3705

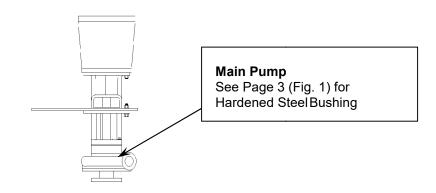
Fax: 314-567-6318

Email: lahey@stingwash.com

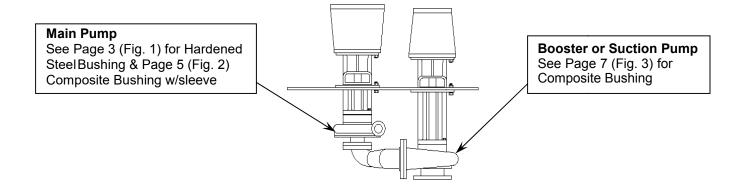
If motor or motor parts are required, please specify name of manufacturer, horsepower and frame size from motor nameplate.

B. PARTS DESCRIPTION & DRAWINGS. To determine the proper drawing to reference, determine if you have a simplex pump (single wash pump) or a duplex pump (suction pump feeding main wash pump). Refer to the following figures:

Simplex (Single) Pump System



Duplex (Dual) Pump System



In some applications the pump may have been upgraded to fit your cleaning application. Please review pump types below:

Standard Simplex (Fig. 1) and Duplex Pump (Fig. 1 & Fig. 3)

1530 Frame 3x2x10 Main Pump (Simplex) - SR30s, SR40s, SR52s, SR60s, SR72s, SR84s, SR100s 1530 Frame 4x5x10 Booster (Duplex) - SR30s., SR40s and SR52s

Aircraft Wheel w/SS Shafts Simplex (Fig. 1) and Duplex Pump (Fig. 1 & Fig. 3)

1530 Frame 3x2x10 Main Pump (Simplex) – SR3036, SR4036 1530 Frame 4x5x10 Booster Pump (Duplex) – SR6036

Heavy-Duty Duplex Pump (Fig. 2 & Fig. 3)

1531 Frame 3x2x10 Main Pump and 1530 Frame 4x5x11 Booster Pump - SR60s, SR72s, SR84s, SR100s, Clamshell and Inline Washers

Please use the following drawings to indentify the parts except for the bearing frame, cartridges, caps, shafts, seals, and bearings. Please call StingRay Tech Services 800-543-6278 for information on these parts.

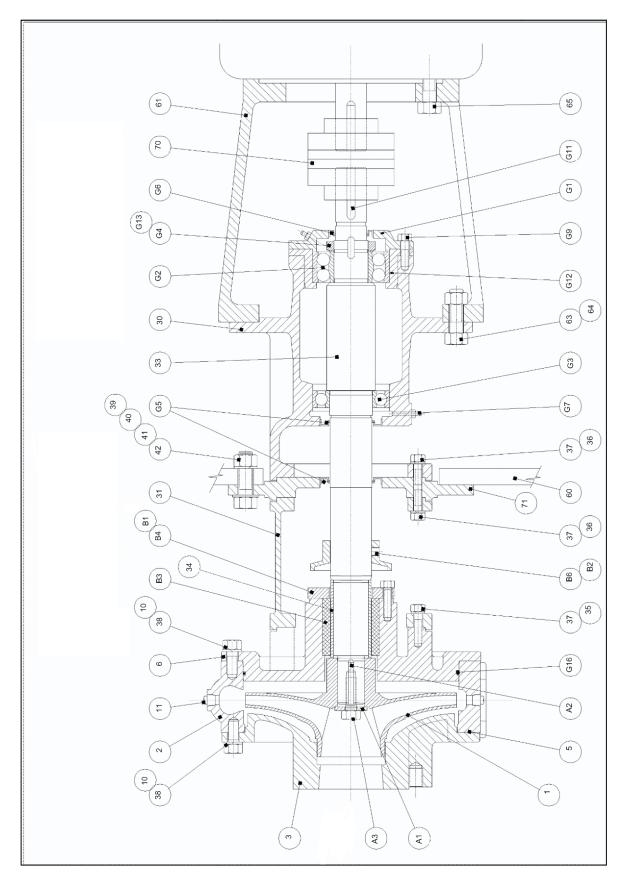


Fig. 1 Standard & Aircraft Wheel 3x2x10 Main Pump Cut Away 1530 Frame Hardened Steel Throttle Bushing

			_
		Standard & Aircraft Wheel 3x2x10 Main Pump 1530	Frame
C) (755	Do:##	Hardened Steel Throttle Bushing w/Sleeve PART DESCRIPTION	30220
Sym	Part # "A" Kit		3028
1	A NIL	Impeller	51173
2		Volute	3117
3	"A" Kit		
4	"A" Kit		
6	53037	Backhead	
10		½"-13 Capscrew (suction head and backhead-Volute)	
11		Plug (casing)	
30	30300	Bearing frame 1530	
31	52306	Column	
33	53203	Shaft (Standard)	
	30334	Shaft (Aircraft Wheel)	
34	"B" Kit	Shaft sleeve	
35		3/8"-16 Capscrew (column-backhead)	
36		3/8"-16 Capscrew (frame-column)	
37		3/8" Lockwasher (column-backhead, column-base)	
38		½" Lockwasher (suction head and backhead-Volute)	
39		3/"-10Capscrew (column-base)	
40 41		3/" Hex nut (column-base)	
41		3/" Washer (column-base)	
60		¾" Lockwasher (column-base) Baseplate	
61	52395	•	
01	52390		
	52392	Intermediate 40HP-50HP	
63	02002	³ / ₄ "-10 Hex head bolt (frame-intermediate)	
64		³ / ₄ "-10 Hex nut (frame-intermediate)	
65		3/4"-10 Hex head bolt (motor-intermediate)	
70	72556/		
	71919	Coupling 30HP	
71		Ring	
A1	"A" Kit	Impeller washer	
A2	"A" Kit	Impeller key	
A5	"A" Kit	5/8"-11Impeller Bolt	
B1	"B" Kit	Locking ring	
B2 B3	"B" Kit	Slinger Throttle bushing	
В3 В4	"B" Kit "B" Kit	3/8"-16 Capscrew (locking ring-backhead)	
B6	"B" Kit	Setscrew (slinger)	
G1	53044	Bearing cap	
G2	"C" Kit	Thrust bearing	
G3	"C" Kit	Radial bearing	
G4	"C" Kit	Bearing locknut	
G5	"C" Kit	Lip seal (frame)	
G6	"C" Kit	Lip seal (bearing cap)	
G7		Grease zerk	
G9		3/8"-16 Hex head bolt (bearing cap-frame)	
G10		Plug	
G11		Coupling key	
G12	53045	Bearing cartridge	
G13		Bearing lockwasher	
G16	46790	O-ring	

30220

30281

51173

"A" Kit

"B" Kit "C" Kit

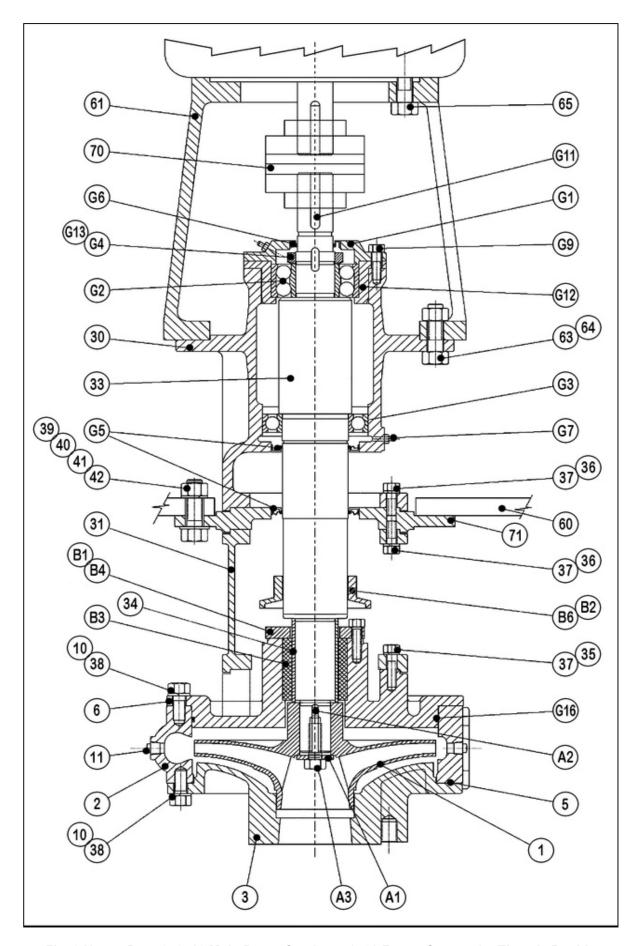


Fig. 2 Heavy-Duty 3x2x10 Main Pump Cut Away 1531 Frame Composite Throttle Bushing

Sym		Heavy-Di	uty 3x2x10 Main Pump 1531 Frame Composite Throttle	e Bushing w/Sleeve
1			•	
"A" Kit Suction head 4 "A" Kit Suction head 5 3037 Backhead W"-13 Capscrew (suction head and backhead-Volute) Plug (casing) Bearing frame 1530 (Call) Column 3 85241 Shaft "B" Kit Shaft sleeve 3 3/8"-16 Capscrew (column-backhead) 3/8" Lockwasher (column-backhead, column-base) W"-10Capscrew (column-base) W"-10 Hex nut (column-base) Intermediate 40HP-50HP "A" Kit Impeller key M"-10 Hex head bolt (frame-intermediate) W"-10 Hex head bolt (frame-intermediate) W"-10 Hex head bolt (frame-intermediate) W"-10 Hex head bolt (motor-intermediate) W"-10 Hex	_			
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G11 Coupling key G12 53045 Bearing cartridge G13 Bearing lockwasher			, <u> </u>	
G12 53045 Bearing cartridge G13 Bearing lockwasher			-	
G13 Bearing lockwasher		53045		
			•	
	G16	46790	•	

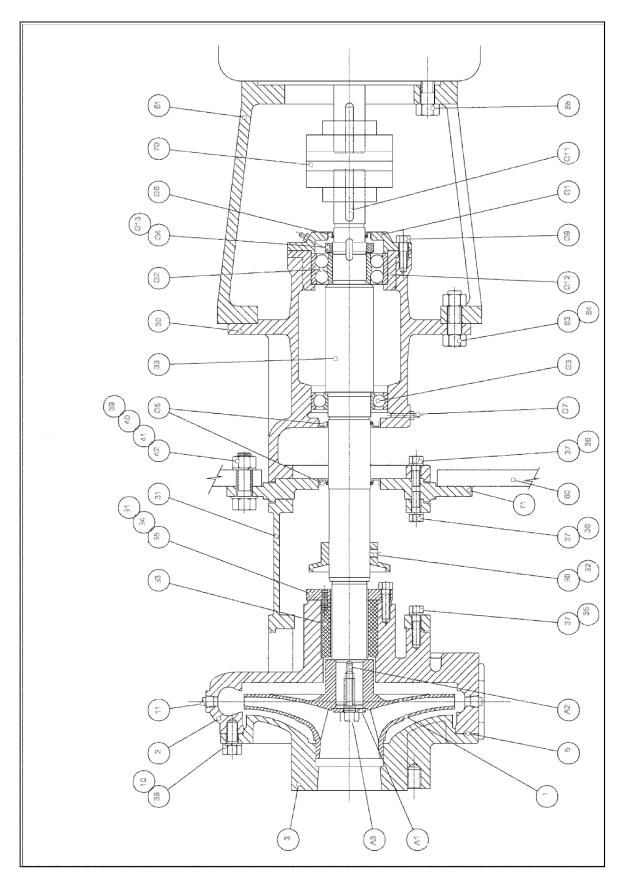


Fig. 3 Standard, Aircraft Wheel and Heavy-Duty 4x5x11 Booster Pump Cut Away 1530 Frame Composite Throttle Bushing

	Standa	ard, Aircraft Wheel and Heavy-Duty 4x5x11 Booster F Composite Throttle Bushing w/o Sleeve	Pump 1530 Frame
Sym	Part #	PART DESCRIPTION	Part #
1	"A" Kit	Impeller	30230 "A" Kit
2		Volute/ Backhead	30280 "B" Kit
3	"A" Kit	Suction head	51173 "C" Kit
4	"A" Kit		52238 Gaske
10		½"-13 Capscrew (suction headvolute/backhead)	
11		Plug (casing)	
			Optional Upgrad
30	30300	Bearing frame	Harden Steel B
31	52306	Column	30281 "B" Kit
33	51174	Shaft (Standard or Heavy-Duty)	51804 Shaft
	30335	Shaft (Aircraft Wheel)	
35		3/8"-16 Capscrew (column-backhead)	
36		3/8"-16 Capscrew (frame-column)	
37		3/8" Lockwasher (column-backhead, column-base)	
38		½" Lockwasher (suction head -Volute)	
39		3/"-10Capscrew (column-base)	
40 41		3/" Hex nut (column-base)	
		3/4" Washer (column-base)	
42		3/4" Lockwasher (column-base)	
60	E000E	Baseplate	
61	52395	Intermediate 15HP-20HP	
63		3/"-10 Hex head bolt (frame-intermediate)	
64		3/" -10 Hex nut (frame-intermediate)	
65	70555	3/4"-10 Hex head bolt (motor-intermediate)	
70	72555	Coupling	
71	" A " 17:1	Ring	
A1	"A" Kit	Impeller washer	
A2	"A" Kit	•	
A5	"A" Kit	•	
B1	"B" Kit	Locking ring	
B2	"B" Kit	Slinger Throttle bushing	
B3	"B" Kit	9	
B4	"B" Kit	3/8"-16 Capscrew (locking ring-backhead)	
B5	"B" Kit	Setscrew (locking ring-bushing,)	
B6	"B" Kit	Setscrew (slinger)	
G1	53044	Bearing cap	
G2	"C" Kit	Thrust bearing	
G3	"C" Kit	Radial bearing	
G4	"C" Kit	<u> </u>	
G5	"C" Kit	Lip seal (bearing frame, column)	
G6	"C" Kit	Lip seal (bearing cap)	
G7		Grease zerk	
G9		3/8"-16 Hex head bolt (bearing cap-frame)	
G10		Plug	
G11	E0045	Coupling key	
G12	53045	Bearing cartridge	
G13		3/8" Bearing lockwasher	
		3" Duplex Pipe Connection Gasket (Not Shown)	
		4" Duplex Pipe Connection Gasket (Not Shown)	_

Part #	Kit
30230	"A" Kit
30280	"B" Kit
51173	"C" Kit
52238	Gasket Kit

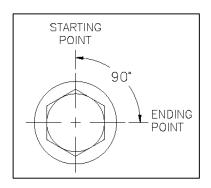
Optional Upgrade: Harden Steel Bushing 30281 "B" Kit 51804 Shaft

Table 5. Recommended Torque Values (except for impeller capscrew)

Bolt Size	Material Torque Value ft-Ibs	
	Steel (or otherwise noted)	316 Stainless Steel
1⁄4"-20	5	7
5/16"-18	11	12
3/8"-16	18	21
1/2"-13	39	45
5/8"-11	83	97
³ ⁄ ₄ "-10	105	132
7/8"-9	160	203
1"-8	236	300

Torque the impeller cap-screw as shown below.





Impeller Cap Screw & Washer

Torque Capscrew – ¼ turn

FIGURE 1: IMPELLER CAP-SCREW TORQUE METHOD

Follow these instructions for installation of the impeller cap-screw

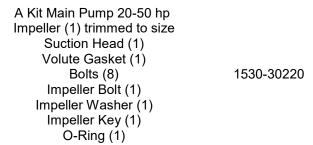
- 1. Install the flange head capscrew with washer into the shaft. Hand-tighten the screw until it is snug in the shaft and clamps the impeller washer tightly. Then, tighten the capscrew ¼ turn (90°), approximately 80-90 ft-lbs.
- 2. To ensure proper seating, loosen the capscrew, re-snug and retighten the capscrew ½ turn (90°).

Use Loctite 262 Red when installing capscrew

STINGRAY Pump Repair Kits & Application Upgrades

Please reference the appropriate exploded view drawing to verify the correct part number for your application.







B Kit Main Pump 15-50 hp
Composite Throttle Bushing (1)
Shaft Sleeve SS (1)
Step Key SS (1)
Locking Ring (1)
Slinger (1)
Hex Bolts (2)
Set Screws (2)



B Kit Main Pump 15-50 hp
Throttle Bushing Hardened Steel
(1)
Shaft Sleeve SS (1)
Step Key SS (1)
Locking Ring (1)
Slinger (1)
Hex Bolts (2)
Set Screws (2)



C Kit Main Pump 15-50 hp
Oil Seal (1)
Viton Seal (2)
Radial Bearing (1)
Thrust Bearing (1)
Bearing Locking Nut (1)

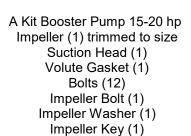


1530 w/ -53203 1530 SS w/-30334 1531 HD w/-85241









O-Ring (1)

1530-30230

B Kit Booster Pump 15-50 hp Composite Throttle Bushing (1) Step Key (1) Locking Ring (1) Slinger (1) Locking Ring Set Screw (2)

1530-30280 Hex Bolts (2) Set Screws (2)



Booster Pump 15-20 hp Shaft 1530-30335



1530-52238

1530-51174



Viton Lip Seals Stainless Steel Housing

1530 SS-30425

STINGRAY Pump Motor Couplings



Assy,Pump Coupling,15&20hp 1 Coupling 1-3/8 1 Coupling 1-5/8 1 Insert

72555



Assy,Pump Coupling,30hp,Simplex
1 Coupling 1-3/8
1 Coupling 1-5/8
71919
1 Insert
1 Collar



Assy,Pump Coupling,40&50hp 1 Coupling,1-3/8 1 Coupling,1-7/8 1 Coupling,Body







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