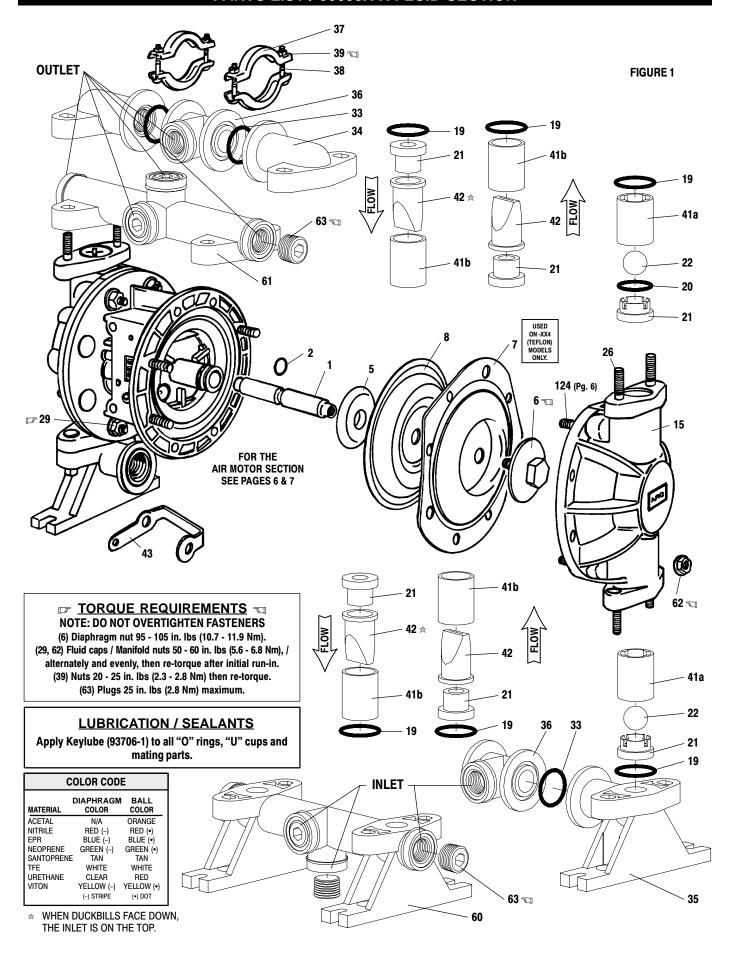
# PARTS LIST / 66605X-X FLUID SECTION



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### PARTS LIST / 66605X-X AIR MOTOR SECTION

(>) Indicates parts included in 637141 Air Section Repair Kit.

				AIR SEC	TION	PAR'	TS
ITEM	DESCRIPTION (Size in Inches)	QTY	PART NO.	[MTL]		ITEM	DE
101	Motor Body	(1)	93091	[P]		133	Wa
<b>⊬102</b>	"O" Ring (3/32" x 1" o.d.)	(2)	Y325-117	[B]		134	Во
□103	Sleeve	(1)	93087	[Bz]		135	Val
□104	Snap Ring (13/16")	(2)	37285	[C]		136	PΙι
111	Spool	(1)	93085	[D]		<b>⊬</b> 137	"0
118	Pilot Rod	(1)	93088	[C]		<b>⊬138</b>	Pa
<b>119</b> ✓	"O" Ring (1/8" x 3/4" o.d.)	(4)	93075	[U]		<b>⊬</b> 139	Pa
□120	Spacer	(3)	115959	[Z]		<b>⊬</b> 140	Va
<b>122</b>	Snap Ring (1/2")	(2)	77802	[C]		<b>⊬</b> 141	Va
124	<b>Stud</b> (5/16" - 18 x 1-17/32") shown pg. 5	(8)	93249	[SS]		142	Wa
129	Muffler Assembly	(1)	66972	[P]		143	Pla
129☆	Exhaust Cover (see note 2)		93092	[PS]		201	Mu
<b>⊬</b> 130	Gasket	(1)	93107	[SY]			
131	Bolt (5/16" - 18 x 1-1/4")	(8)	93095	[SS]		~	Ke
<b>⊬</b> 132	Gasket (see note 1)	(1)	93339-1	[B]			10

e note 1)	(1)	93339-1	[B]	10 Pack of Keylube	637175	
				N D . N . 00000 D'	 	
PHRAGM PUM	P SE	RVICE		Note 1: Part No.93339-1 One-Piece Gasket re models manufactured prior to October 198		

Inspect and replace old parts with new parts as necessary. Look for deep scratches on metallic surfaces, and nicks or cuts in "O" rings.

7/16" Wrench, 1/2" Wrench, 7/16" Socket, 1/2" Socket, Torque Wrench (measuring inch pounds), "O" ring Pick.

## FLUID SECTION DISASSEMBLY

1. Remove (34) top manifold / (36) swivel assembly.

Note: Manifold options involve single piece manifolds (60 / 61) or three piece swivel type manifolds with clamps.

- 2. Remove (41) ball cages, (22) balls, (19 and 20) "O" rings and (21) seats. Note: If cages are difficult to remove at this step, it may may helpful to proceed through step 5 and remove them once they are accessible from the inside of the fluid cap.
- 3. Remove (35) bottom manifolds / (36) swivel assembly.
- Remove (19) "O" rings. (21) seats and (22) balls.
- Remove (15) fluid caps.

DIAP

**GENERAL SERVICE NOTES:** 

- Remove (6) diaphragm nut, (8) [(7) Teflon Models only] diaphragm(s) and (5) diaphragm washer from (1) diaphragm connecting rod.
- 7. Remove (1) connecting rod from air motor.
- Carefully remove remaining (6) diaphragm nut, (8) [(7) Teflon Models] diaphragm and (5) diaphragm washer from (1) connecting rod. Do not mar surface of connecting rod.
- 9. Remove (2) "O" ring from connecting rod.
- 10. Remove (37) clamps from top and bottom manifold / swivel assem-
- 11. Remove (33) "O" rings from (36) swivels.

Y325-8

**DESCRIPTION** (Size In Inches)

"O" Ring (3/32" x 1-1/2" o.d.)

Packing, "U" Cup (1/8" x 1" o.d.)

Keylube "O" Ring Lubricant

Packing, "U" Cup (1/8" x 1.427" o.d.)

Washer (9/32" i.d.)

Bolt (1/4" - 20 x 5")

Valve Block

Valve Insert

**Valve Plate** 

Muffler (see note 2)

Washer

**Plate** 

Plug

QTY

(4)

(4)

(1)

(1)

(1)

(1)

(1)

(1)

(1)

(2)

(2)

PART NO.

Y6-419-T

93096

93090

93086

94395

93116

93276

93275

116038

93089

93110

93706-1

Y325-125

[MTL]

[SS]

[SS]

[P]

[UH]

[B]

[U]

[B]

[CK]

[CK]

[Z]

[SS]

[C]

Note 2: The (129x) Exhaust Cover and (201) Muffler were standard until 9/92. They are available separately for service or piped exhaust applications.

Note 3: A Major Valve Service Assembly is available separately which includes items: 111, 132, 135 - 141. Order part no 66362.

MATERIAL CODE						
[B] = Nitrile	[D] = Acetal	[SY] = Syn-Seal				
[Bz] = Bronze	[P] = Polypropylene	[U] = Polyurethane				
[C] = Carbon Steel	[PS] = Polyester	[UH] = UHMW-PE				
[CK] = Ceramic	[SS] = Stainless Steel	[Z] = Zinc				

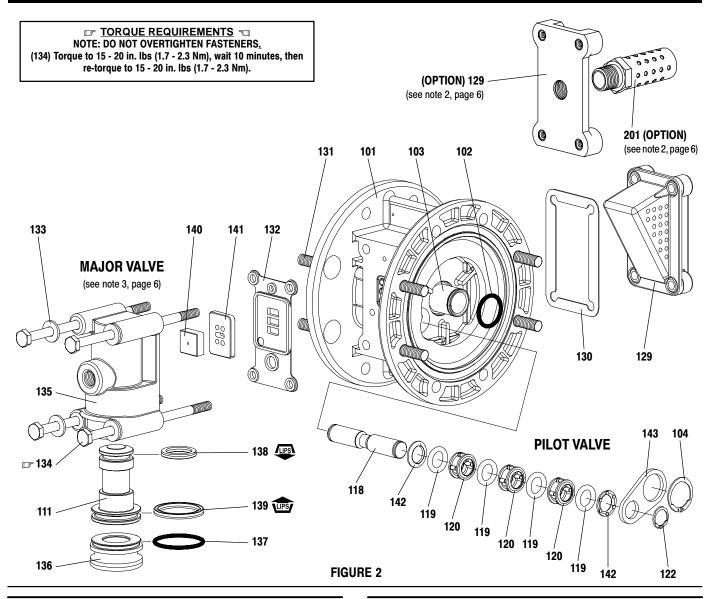
### FLUID SECTION REASSEMBLY

- Reassemble In reverse order.
- Lubricate (1) connecting rod and (2) "O" ring with Key-Lube or equivalent "O" ring lubricant.
- Install (5) diaphragm washers with i.d. chamfer toward diaphragm.
- When replacing Teflon diaphragms, install the 93465 Santoprene diaphraam behind the Teflon diaphraam.
- When installing (41) cage, ball guides must line up with notches in (21) seat to prevent damage.
- Before installing (35), (34) manifolds, (19) "O" ring should be properly seated on the o.d. of (41) ball cage.
- Before tightening (39) nut on (38) carriage bolts on (36) swivels, attach the manifold / swivel assembly to the fluid caps. Rotate (36) swivel to desired position and tighten each of the nuts approx. 8 - 9 turns, then finish tightening (29) nuts.

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<sup>□ &</sup>quot;Smart Parts" keep these items on hand in addition to the Service Kits for fast repair and reduction of down time.

## PARTS LIST / 66605X-X AIR MOTOR SECTION



## **AIR MOTOR SECTION SERVICE**

Service is divided into two parts - 1. Pilot Valve, 2. Major Valve.

Air Motor Section Service is continued from Fluid Section repair.

## PILOT VALVE DISASSEMBLY

- Remove (122) and (104) snap rings.
- 2. Remove (143) plates.
- 3. Remove (103) sleeve and (102) "O" rings.
- Remove (118) piston, (142) washers, (119) "O" rings and (120) spacers from (101) center body.

### PILOT VALVE REASSEMBLY

- Assemble (119) "O" rings, (120) spacers and (142) washers on (118) pilot rod.
- Insert the stack into the (101) body. Sleeve (103) may be used to assist pressing stack into body.
- 3. Install (103) sleeve and (102) "O" rings into (101) body.
- 4. Install (143) plates and (122) and (104) snap rings.

### **MAJOR VALVE DISASSEMBLY**

- 1. Remove (129) exhaust cover and (130) gasket.
- 2. Pull (135) valve block assembly from (101) body.
- 3. Remove (134) bolts, (133) washers and (132) gasket from (135) valve block.
- 4. Remove (141) valve plate and (140) valve insert.
- Remove (136) plug and (111) spool.

## **MAJOR VALVE REASSEMBLY**

- Install new (139) and (138) "U" cups on (111) spool LIPS MUST FACE EACH OTHER.
- 2. Insert (111) spool into (135) valve block.
- 3. Install (137) "O" ring on (136) plug, insert plug into (135) valve block.
- 4. Install (140) valve insert and (141) valve plate into (135) valve block. Note: After 9/92, parts (140, 141) are white (ceramic), the dished side of the (140) valve insert should be against the shiny face of (141) valve plate for best performance.
- Replace (132) gasket and install valve block assembly on (101) body.

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