

# Operator-Parts List Manual

200-2071

Revision A

Manuel d'opérateur – Liste des pièces  
Manual del operador – Lista de piezas

## 5 HP Electric Two-stage, Cast Iron Pump, Air Compressor with SC-23 pumps

Compresseurs d'air électrique biétagé de 5 CV et munis de pompe SC-23

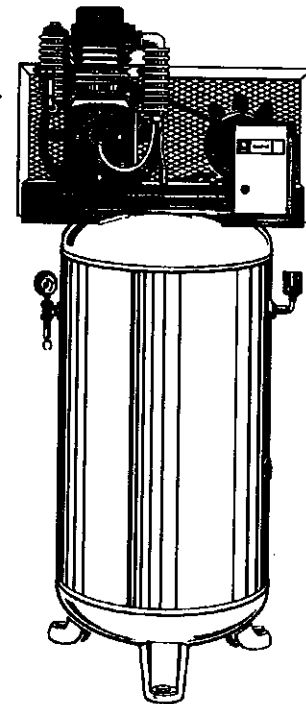
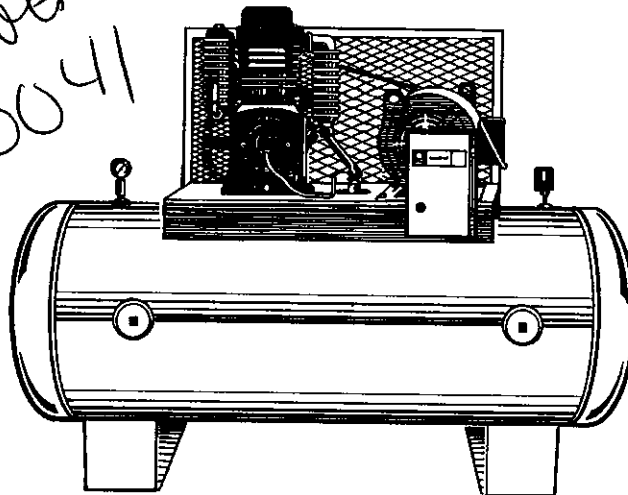
Compresor de aire con bomba de hierro colado y motor eléctricos de dos etapas de 5 HP, con bomba SC-23

NOTE: These units require a magnetic starter.

NOTE: Ces compresseurs nécessitent l'installation d'un démarreur magnétique.

NOTA: Estas unidades requieren la instalación de un arrancador magnético.

*208-160  
160-0041*



### Specification Chart      Tableau des spécifications      Cuadro de especificaciones

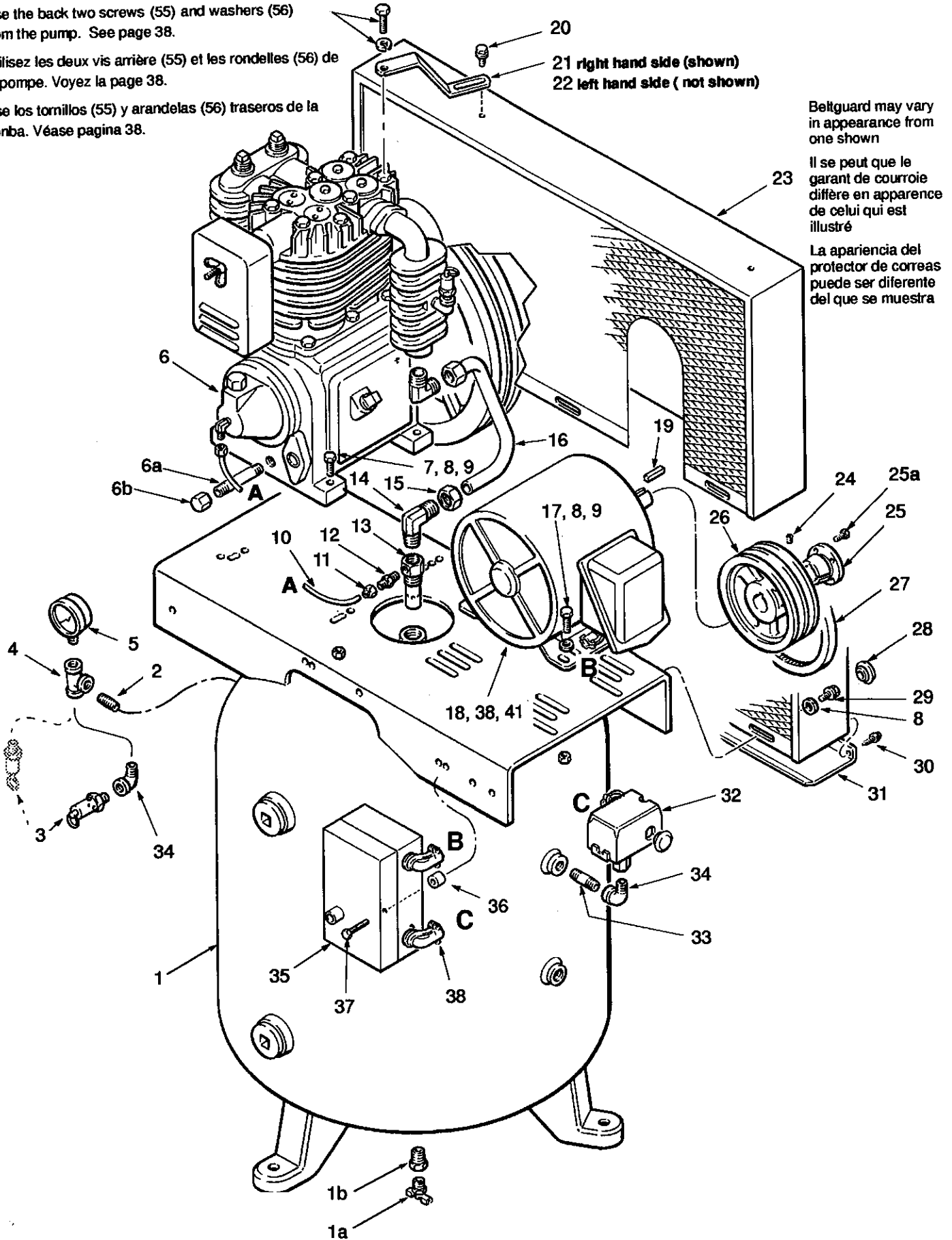
MODEL NO. (MODÈLE) (MODELO)	H.P. (CV)	TANK CAPACITY GALLONS (CAPACITÉ DU RESERVOIR - LITRES) (CAPACIDAD DEL TANQUE - LITROS)	VOLTAGE/ AMPS/ PHASE (TENSION/ AMPS/ PHASE) (VOLTAJE/ AMP/ FASE)	CFM (l/min) @ 100 PSI (7,0 bar)	CFM (l/min) @ 175 PSI (12 bar)	KICK-IN PRESSURE (PRESSION D'OUVERTURE) (PRESION DE CONEXION)	KICK-OUT PRESSURE (PRESSION DE FERM.) (PRESION DE DESCONEXION)
51-C22-80 521E80	5	Vert 80 (303) Horiz 80 (303)	230/22/1	17 (480)	15.6 (441)	145 (10 bar)	175 (12 bar)
53-C22-80 523E80			208/14.4/3 230/14.4/3 460/7.2/3				

# PARTS DRAWING \_\_\_\_\_ DESSIN DES PIÈCES \_\_\_\_\_ ESQUEMA DE LAS PIEZAS

Use the back two screws (55) and washers (56) from the pump. See page 38.

Utilisez les deux vis arrière (55) et les rondelles (56) de la pompe. Voyez la page 38.

Use los tornillos (55) y arandelas (56) traseros de la bomba. Véase pagina 38.



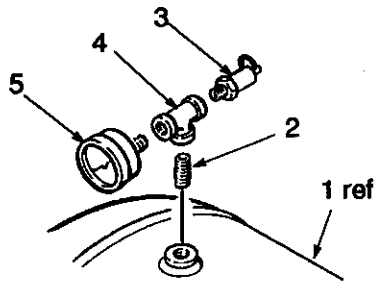
## PARTS LIST

## PIÈCES LISTE

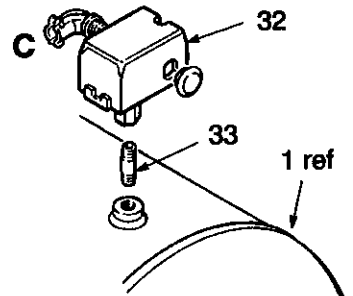
## LISTA DE LAS PIEZAS

Item Art. Art.	Part No No. / P No. / P	Qty Qté Ctd	Description	Description	Descripción
1	①	1	Tank assy	Ensemble du réservoir	Conjunto de tanque
1a	072-0001	1	Petcock, 1/4" NPT	Robinet de décompression	Llave de desagüe
1b	063-0001	①	Bushing, 1/2" NPT x 1/4" NPT	Bague	Buje
2	065-0031	1	Nipple, 1/4" NPT x 7/8" lg	Manchon fileté	Niple
3	136-0007	1	Valve, relief, 200 PSI	Soupape	Válvula
4	069-0004	1	Tee, 1/4" NPT	Pièce en T	T
5	①	1	Gauge, 300 PSI	Jauge	Manómetro
6	040-0211	1	Pump assy	Pompe	Bomba
6a	062-0101	1	Cap, pipe, 3/8" NPT	Capuchon	Tapa
6b	065-0040	1	Nipple, 3/8" NPT x 4" lg	Manchon fileté	Niple
7	059-0119	4	Screw, 3/8"-16 x 2" lg	Vis	Tornillo
8	060-0023	8	Washer, 3/8"	Rondelle	Arandela
9	058-0009	8	Nut, 3/8"-16, heavy	Écrou	Tuerca
10	①	1	Tube, bleeder, A to A	Tube	Tubo
11	058-0017	2	Compression nut & sleeve	Écrou de compression	Tuerca de compresión
13	①	1	Check valve	Clapet de retenue	Válvula de contraflujo
14	①	1	Elbow, 90°	Coude	Codo
15	058-0012	4	Comp. nut & sleeve	Écrou de compression	Tuerca de compresión
16	①	2	Tube, transfer	Tube	Tubo
17	059-1007	4	Screw, 3/8"-16 x 1" lg	Vis	Tornillo
18	①	1	Motor, 5 H.P.	Moteur	Motor
19	①	①	Key 5/16" x 3/16" x 1 1/4" lg	Clé	Chaveta
20	059-0012	4	Bolt, lock 5/16"-18 x 1/2" lg	Boulon	Perno
21	①	1	Bracket, belt guard, 60° bend right hand (shown)	Support	Soporte
22	114-0145	1	Bracket, belt guard, 45° bend left hand (not shown)	Support	Soporte
23	142-0084	1	Beltguard	Garant de courroie	Protección de correa
24	061-0009	①	Setscrew, 5/16"-18 x 1/4" lg	Vis d'arrêt	Tornillo fijador
25	004-0001	①	Hub, includes 25a	Moyeu	Cubo
25a	NA	①	Screw, 1/4" x 3/4" lg	Vis	Tornillo
26	①	①	Pulley	Poulie	Polea
27	008-0041	2	V-belt, B70	Courroie	Correa
28	093-0005	5	Plug, button	Bouchon	Tapón
29	059-0164	4	Screw, 3/8"-16 x 3/4" lg	Vis	Tornillo
30	061-0005	4	Screw, #10 x 3/4" lg	Vis	Tornillo
31	125-0113	1	Underpan	Tôle inférieure	Bandeja inferior
32	034-0056	1	Switch, pressure	Interrupteur	Interruptor
33	065-0004	1	Nipple, 1/4" NPT x 2" lg	Manchon fileté	Niple
34	064-0022	①	Elbow, 90°	Coude	Codo
35	①	①	Magnetic starter	Démarrateur magnétique	Arrancador magnetico
35a	①	①	Heater	Réchauffeur	Calefactor
36	114-0220	①	Spacer	Entretoise	Espaciador
37	059-0245	①	Screw	Vis	Tornillo
38	①	①	Strain relief	Soulagement de traction	Aliviador de esfuerzo
39	①	①	Cord, interconnect B to B	Câble	Cordón
40	026-0223	①	Cord, interconnect C to C	Câble	Cordón
41	060-0059	①	Washer, conduit reduction	Rondelle	Arandela

① See page 35  
Voyez page 35  
Véase pagina 35



**HORIZONTAL TANK**  
(front view of left side)



**HORIZONTAL TANK**  
(front view of right side)

MODEL

① Part  
Item Number

		S51-C22-80V1	S51-C22-80V	S53-C22-80V	S51-C22-80H	S53-C22-80H	P51-C22-80V	C521E80V	X51-C22-80V1	P51-C22-80V1	C521E80V1	C523E80V	P53-C22-80V1	C523E80V1	C521E80H	C521E80H1	C523E80H	C523E80H1	C523E80V208	C521E80V208	C521E80V4	C523E80V4	X51-C22F-80VS1	S53-C22-80V208
1	021-0148	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	021-0149			1	1									1	1	1	1							1
	021-0170																							
1b	063-0001	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5	032-0024			1	1									1	1	1	1			1	1	1	1	1
	032-0025	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1							
10	145-0084	1	1	1	1	1													1	1	1	1	1	1
	145-0192					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	068-0002	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	064-0003																							
13	031-0036	1	1	1	1	1																		1
	031-0020					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	064-0105	1																						1
14a	064-0032		1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1
16	145-0157	1	1	1	1	1																		1
	145-0266					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	145-0267													1	1	1	1							
	145-0213																							
18	160-0197	1	1		1	1	1	1	1	1				1	1						1	1		
	160-0029		1		1						1	1	1			1	1					1		
	160-0041																	1						1
	160-1001																		1					
18a	166-0075	1	1		1	1	1	1	1				1	1				1						1
18b	166-0076	1	1		1	1	1	1	1				1	1										1
18c	166-0077	2	2		2	2	2	2	2				2	2										1
19	146-0011	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
21	114-0144	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	114-0174																							
24	061-0009	1	1		1	1	1	1	1					1	1									1
25	004-0001			1		1					1	1	1			1	1	1	1	1	1	1	1	1
25a	NA			2		2					2	2	2											1
26	006-0128	1	1		1	1	1	1	1					1	1						1	1	1	1
	006-0101			1		1					1	1	1			1	1	1	1	1	1	1	1	1
34	064-0022	1	1	1		2	2	2	2	2	2	2	2	2					2	2	2	2	1	1
35	001-0058	1																						
	001-0060							1	1	1		1	1			1								1
35a	002-0048	1						1	1	1				1										1
	002-0028											1	1			1								
36	114-0220	2						2	2	2		2	2			2							2	
37	059-0245	2						2	2	2		2	2			2							2	
38	071-0002	1						1	1	1		1	1			1							1	
	071-0003	3						3	3	3					3								3	
	071-0006																							
39	026-0191	1						1	1	1				3	3									
	026-0189																							
40	026-0223	1						1	1	1		1	1			1								
41	060-0059	2						1	1	1		1	1			1								




Magnetic starters (required)

001-0065		1		1		1	1							1					1	1				
001-0072(230V)			1		1						1													1
001-0073(460V)				1							1					1						1		1

**054-0178 RING SET for high pressure piston**

**054-0178 JEU DE SEGMENT piston haute pression**




**054-0178 JUEGO DE ANILLOS pistones para alta presión**

Item Art. Art.	Part No. No. / P No. / P	Qty Qté Ctd	 Description	 Description	 Descripción
1	NA	1	Ring, oil control .....	Segment .....	Anillo
		or	Ring, oil control .....	Segment .....	Anillo
			<i>includes items 1a &amp; 1b</i>	<i>inclut les éléments 1a &amp; 1b</i>	<i>incluye los articulos 1a &amp; 1b</i>
1a	NA	1	Expander .....	Ressort .....	Expansor
1b	NA	2	Rails .....	Glisseères .....	Carriles
2	NA	2	Ring, compression .....	Segment .....	Anillo
			<i>w/inside chamfer</i>		
3	NA	1	Ring, compression .....	Segment .....	Anillo

**054-0179 RING SET for low pressure piston**

**054-0179 JEU DE SEGMENT piston basse pression**

**054-0179 JUEGO DE ANILLOS pistones para baja presión**

Item Art. Art.	Part No. No. / P No. / P	Qty Qté Ctd	 Description	 Description	 Descripción
1	NA	1	Ring, oil control .....	Segment .....	Anillo
			<i>includes items 1a &amp; 1b</i>	<i>inclut les éléments 1a &amp; 1b</i>	<i>incluye los articulos 1a &amp; 1b</i>
1a	NA	1	Expander .....	Ressort .....	Expansor
1b	NA	2	Rails .....	Glisseères .....	Carriles
2	NA	3	Ring, compression .....	Segment .....	Anillo

 **IMPORTANT:**

1. Assemble each RING SET in Ref. No. and alphabetical sequence.  
**NOTE:** When Ref. No.'s and/or alphabet are the same, assemble the bottom one first.
2. To ensure proper operation follow respective notes accordingly.
3. To prevent ring breakage, a standard automotive ring expander should be used for assembly.
4. There are two styles of high pressure pistons and they require different oil control rings (see below).
5. When replacing a worn piston with a new piston, always use new rings.

 **IMPORTANT:**

1. Posez chaque JEU DE SEGMENTS dans les ordres de nos. de réf. et alphabétique.  
**NOTE:** Lorsque les ordres de nos. de réf. et alphabétique sont les mêmes, posez le jeu du bas en premier.
2. Pour garantir un fonctionnement correct, respectez les notes respectives en conséquence.
3. Pour empêcher toute rupture de segment, il convient d'utiliser une pince à segments automobiles standard pour la pose.
4. Il existe deux types de pistons haute pression, qui demandent des segments racleurs différents (voir ci-dessous).
5. Lorsque vous remplacez un piston usé par un piston neuf, utilisez toujours des segments neufs.

 **IMPORTANTE:**

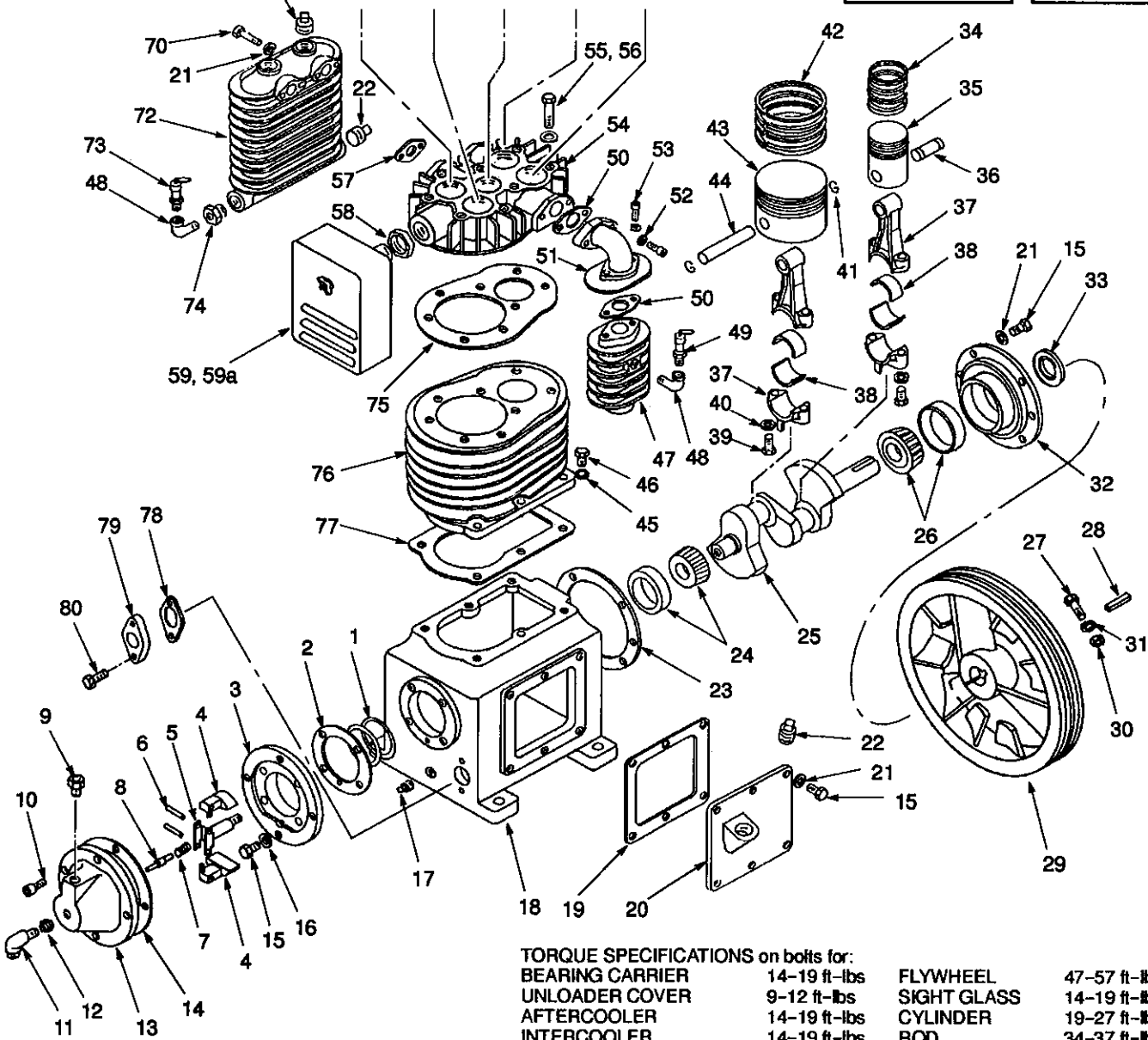
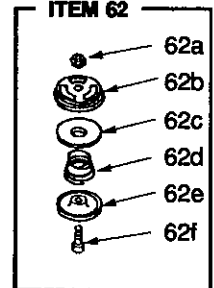
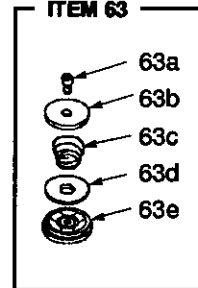
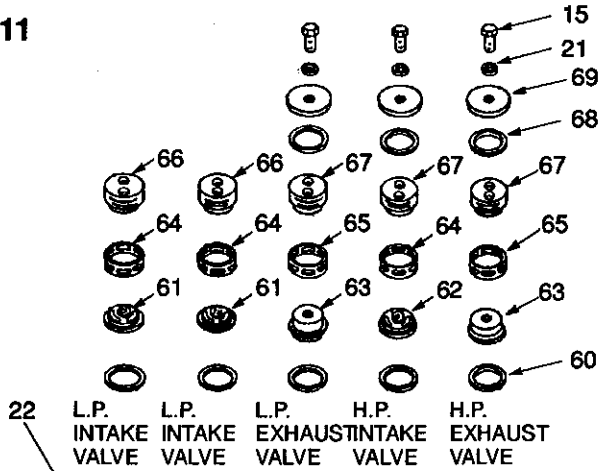
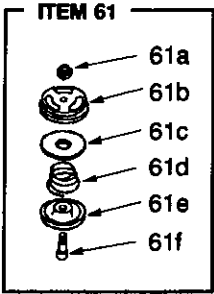
1. Instale cada JUEGO DE ANILLOS según No. Ref. y en orden alfabético.  
**NOTA:** Si el No. Ref. y/o el orden alfabético son iguales, instale primero el del fondo.
2. Para asegurar el funcionamiento correcto siga las notas respectivas en la debida forma.
3. Para evitar que se rompa el anillo, en la instalación se deberá usar un expansor de anillo estándar para coche.
4. Hay dos estilos de pistones para alta presión, y éstos requieren distintos anillos de control del aceite (véase a continuación).
5. Al reemplazar un pistón desgastado por otro nuevo, utilice siempre anillos nuevos.

PARTS DRAWING \_\_\_\_\_ DESSIN DES PIÈCES \_\_\_\_\_ ESQUEMA DE LAS PIEZAS

SC23 PUMP 040-0211

PUMP SPECIFICATIONS

WEIGHT - 222 LBS  
 CAPACITY - 50 OZ.  
 MAX RPM - 800  
 OIL GRADE - Low carbon compressor oil  
 PGS III (018-0053SP) or SLC 1  
 (018-0051SP)



TORQUE SPECIFICATIONS on bolts for:

BEARING CARRIER	14-19 ft-lbs	FLYWHEEL	47-57 ft-lbs
UNLOADER COVER	9-12 ft-lbs	SIGHT GLASS	14-19 ft-lbs
AFTERCOOLER	14-19 ft-lbs	CYLINDER	19-27 ft-lbs
INTERCOOLER	14-19 ft-lbs	ROD	34-37 ft-lbs
VALVE RETAINERS	51-57 ft-lbs	HEAD	32-37 ft-lbs
VALVE COVER	14-19 ft-lbs	VALVE	9-12 ft-lbs

## Pump assy 040-0211 - Ensemble du pompe - Conjunto de bomba

Item Art.	Part No No. / P	Qty Qté	Description	Description	Description
1	046-0175 046-0176 046-0177	AR	Shim, bearing adj., .005 thick Shim, bearing adj., .010 thick Shim, bearing adj., .020 thick	Cale	Calzo
2	046-0227	1	Gasket, adapter plate	Joint	Empaquetadura
3	077-0070	1	Plate, adapter, centrif. unloader	Plaque	Placa
4	096-0009	2	Weight	Poids	Peso
5	114-0112	1	Holder, weight	Manche	Soporte
6	107-0015	2	Pin	Goupille	Pasador
7	055-0051	1	Spring	Ressort	Resorte
8	078-0011	1	Plunger	Piston	Embolo
9	056-0018	1	Breather, crankcase	Reniflard	Respiradero
10	059-0156	4	Bolt, M6 x 20 mm lg.	Boulon	Perno
11	031-0057	1	Valve, air, w/ valve core	Soupape	Válvula
12	058-0084	1	Nut, brass, M10	Écrou	Tuerca
13	077-0071	1	Housing, centrifugal unloader	Corps	Compartimiento
14	046-0171	1	Gasket	Joint	Empaquetadura
15	059-0166	21	Bolt, M8 x 20mm lg.	Boulon	Perno
16	060-0070	4	Washer, lock, 8mm	Rondelle	Arandela
17	062-0004	1	Plug, oil drain	Bouchon	Tapón
18	049-0027	1	Crankcase	Carter	Cárter
19	046-0169	1	Gasket, side cover	Joint	Empaquetadura
20	077-0069	1	Cover, side	Couvercle	Tapa
21	060-0061	19	Washer, copper .52" O.D. x .32" I.D.	Rondelle	Arandela
22	062-0006	4	Plug, pipe, 3/4" NPT	Bouchon	Tapón
23	046-0168	1	Gasket, front cover	Joint	Empaquetadura
24	051-0054	1	Bearing set, rear	Jeu de roulements	Conjunto de cojinete
25	053-0051	1	Crankshaft	Vilebrequin	Cigüeñal
26	051-0053	1	Bearing set, front	Jeu de roulements	Conjunto de cojinete
must be purchased separately			doit être acheté séparément		
27	059-0163	1	Bolt, M16 x 80mm lg	Boulon	Perno
28	146-0015	1	Key, flywheel	Clé	Chaveta
29	044-0037	1	Flywheel, 16 7/8" O.D.	Volant-moteur	Volante
must be purchased separately			must be purchased separately		
30	058-0086	1	Nut, M16	Écrou	Tuerca
31	060-0069	1	Washer, lock, 16mm	Rondelle	Arandela
32	045-0044	1	Bearing carrier, front	Support, roulement	Portador, cojinete
33	046-0179	1	Seal, shaft	Joint	Sello
34	054-0178	1	Ring set, high pressure	Jeu de segment	Juego de anillos
35	048-0081	1	Piston, high pressure	Piston	Pistón
36	052-0028	1	Pin, wrist, high pressure	Goupille	Pasador
37	047-0054	2	Rod, connecting	Tige	Varilla
38	051-0055	2 pair	Insert, bearing	Pièce rapportée	Inserto
39	059-0154	4	Bolt, rod, M10 x 45mm lg	Boulon	Perno
40	060-0072	4	Washer, lock 10mm	Rondelle	Arandela
41	054-0119	2	Retaining ring	Anneau de retenue	Anillo retenedor
42	054-0179	1	Ring set, low pressure	Jeu de segment	Juego de anillos
43	048-0054	1	Piston, low pressure	Piston	Pistón
44	052-0027	1	Pin, wrist, low pressure	Goupille	Pasador
45	060-0063	6	Washer, copper, .66 O.D. x .41 I.D.	Rondelle	Arandela
46	059-0159	6	Bolt, cylinder M10 x 30mm lg	Boulon	Perno
47	082-0014	1	Aftercooler	Refroidisseur supplémentaire	Postrefrigerador
48	064-0022	2	Elbow, 90° street, 1/4"	Coude	Codo
49	136-0047	1	Valve, pressure relief, 225 PSI	Soupape	Válvula



50	046-0172	2	Gasket, manifold, aftercooler	Joint	Empaquetadura
51	083-0009	1	Elbow, manifold, aftercooler	Coude	Codo
52	060-0070	4	Washer, lock, 8mm	Rondelle	Arandela
53	059-0158	4	Bolt, manifold, M8 x 25mm lg	Boulon	Perno
54	042-0055	1	Head, cylinder	Tête	Cabeza
55	059-0167	8	Bolt, head, M12 x 70mm lg	Boulon	Perno
56	060-0105	8	Washer, M12	Rondelle	Arandela
57	046-0173	2	Gasket, intercooler	Joint	Empaquetadura
58	058-0087	1	Nut, conduit, 1"	Écrou	Tuerca
59	019-0097	1	Filter, cannister assy <i>includes item 59a</i>	Filtre	Filtro
59a	019-0023	1	Element, filter replacement	Élément	Elemento
60	060-0062	5	Washer, copper, 1.62" O.D. x 1.368" I.D.	Rondelle	Arandela
61	043-0098	2	Intake valve assy, low pressure .. <i>includes items 61a-61f</i>	Ensemble de la soupape d'admission	Conjunto de válvula de admisión
61a	--	1	Nut, self-locking, hex jam	Écrou	Tuerca
61b	--	1	Seat, valve	Siège	Asiento
61c	--	1	Plate, valve	Plaque	Placa
61d	055-0067	1	Spring, valve	Ressort	Resorte
61e	--	1	Guide, valve	Guide	Guía
61f	--	1	Bolt, M6 x 20mm lg	Boulon	Perno
62	043-0099	1	Intake valve assy, high pressure .. <i>includes items 62a-62f</i>	Ensemble de la soupape d'admission	Conjunto de válvula de admisión
62a	--	1	Nut, self-locking, hex jam	Écrou	Tuerca
62b	--	1	Seat, valve		
62c	--	1	Plate, valve	Plaque	Placa
62d	--	1	Spring, valve	Ressort	Resorte
62e	--	1	Guide, valve	Guide	Guía
62f	--	1	Bolt, M6 x 20mm lg	Boulon	Perno
63	043-0100	2	Exhaust valve assy, high & low .. <i>includes items 63a-63e</i>	Ensemble de soupape d'échappement	Conjunto de válvula de escape
63a	--	1	Bolt, M6 x 12mm lg	Boulon	Perno
63b	--	1	Guide, valve		Guía
63c	055-0068	1	Spring, valve	Ressort	Resorte
63d	--	1	Plate, valve	Plaque	Placa
63e	--	1	Seat, valve		
64	043-0094	3	Spacer, intake valve	Entretoise	Espaciador
65	043-0095	2	Spacer, exhaust valve	Entretoise	Espaciador
66	058-0082	2	Retainer, valve, low pressure	Retenue	Retenedor
67	058-0083		Retainer, valve low pressure exhaust or high pressure intake and exhaust	Retenue	Retenedor
68	046-0174	3	Gasket, valve cover	Joint	Empaquetadura
69	077-0073	3	Cover, valve	Couvercle	Tapa
70	059-0157	4	Bolt, M8 x 90mm lg	Boulon	Perno
71			N/A	N/A	N/A
72	082-0012	1	Intercooler	Refroidisseur intermédiaire	Enfriador intermedio
73	136-0046	1	Valve, pressure relief, 75 PSI	Soupape	Válvula
74	063-0006	1	Bushing, reducer	Bague	Buje
75	046-0166	1	Gasket, cylinder head	Joint	Empaquetadura
76	050-0030	1	Cylinder	Cylindre	Cilindro
77	046-0167	1	Gasket, cylinder/crankcase	Joint	Empaquetadura
78	046-0178	1	Gasket, sight glass flange	Joint	Empaquetadura
79	032-0031	1	Flange, w/sight glass	Bride	Brida
80	059-0153	2	Bolt, M8 x 30 mm lg	Boulon	Perno

#### AVAILABLE SERVICE KITS

Part No	Description	Description	Descripción
046-0183	Gaskets, complete set <i>includes items 2, 14, 19, 23, 45, 50, 57, 68, 75, 77, 78, washers 21, 45 and 60</i>	Joints, jeu complet <i>inclut les éléments 2, 14, 19, 23, 45, 50, 57, 68, 75, 77, 78, rondelles 21, 45 et 60</i>	Juntas, conjunto completo <i>incluye los artículos 2, 14, 19, 23, 45, 50, 57, 68, 75, 77, 78, arandelas 21, 45 y 60</i>

046-0184	Gaskets, valve set ..... includes items 68, five washers item 60 and three washers item 21	Joints, jeu de soupape ..... includ les éléments 68, cinq rondelles, les élément 60 et tres rondelles, les élément 21	Juntas, conjunto des válvula incluye los artículos 68, cinco arandelas, los artículo 60 y tres arandelas, los artículo 21
070-0020	Centrifugal unloader assy ..... includes items 4-8	Ensemble de régulateur de ..... pression centrifuge includ les éléments 4 - 8	Conjunto de descargador centrifugo incluye los artículos 4 - 8
165-0064	Overhaul kit, ..... includes items 33, 34, 38 and 42	Jeu de pièces de remise en état ..... includ les éléments 33, 34, 38 et 42	Juego de reparación general incluye los artículos 33, 34, 38 y 42