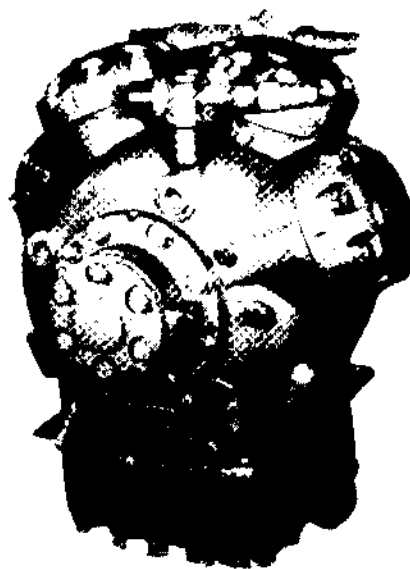


Model G Compressor

TK 40211-1.1



Printed (October 24, 1994)

General Information

Tables of Contents

This Parts Manual contains alphabetical and numerical tables of contents listing each assembly name and its associated Grid number and page number. The alphabetical table of contents is arranged alphabetically by assembly name. The numerical table of contents is arranged numerically by Grid number. There may be references in a parts list referring to other Grid numbers. The Numerical table of contents is arranged to facilitate finding the referenced illustrations.

Assemblies and Subassemblies

When parts are indented in the description list, it is preceded with a bullet (•). This indicates that the part(s) is available separately or included in an assembly

THERMOFILM GRID NO. 67D6 SWITCH PANEL ASSEMBLY

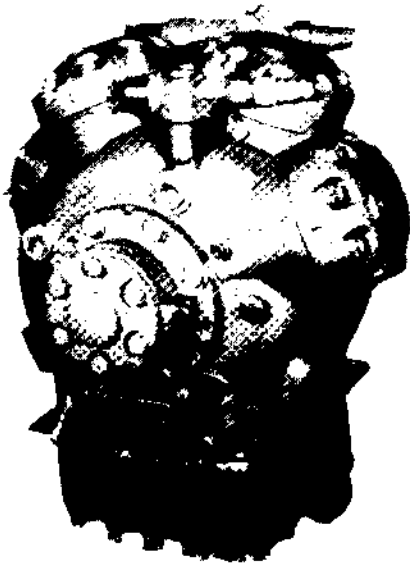
REF	PART#	DESCRIPTION	REQ
	45-1239	PANEL - assy, switch	1
1	99-1960	•PANEL	1
	99-6280	••NAMEPLATE - panel	1
2	33-743	•GASKET	1

For example: the switch panel nameplate (99-6280) is available separately, available as part of the switch panel (99-1960) and with the panel assembly (45-1239).

ABBREVIATIONS

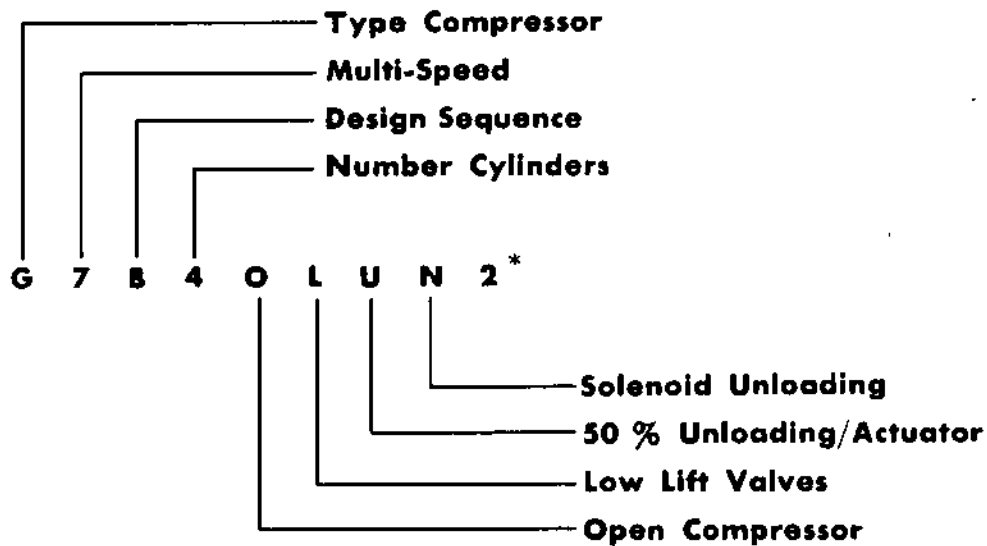
The following abbreviations appear in parts manuals

A	ac	alternating current	E	(continued)		O	os	oversized
	A/R	as required		exch	exchanger		od	outside diameter
	accum	accumulator		exp	expansion	P	pcb	printed circuit board
	adj	adjusting		ext	external		pkg	package
	al	aluminum	F	F	Fahrenheit		ph	phase
	alt	alternator		fill	fillister		pos	positive
	amp	ampere		fi	fuel injection		psi	pounds per square inch
	assy	assembly		fl	flare	R	rad	radiator
B	bd	board		fpt	female pipe thread		rcvr	receiver
	brg	bearing		ft	feet		ref	reference
	brkr	breaker		ftg	fitting		reg	regulator
	brkt	bracket	H	hex	hexagon		req	required
C	C	Celsius		hh	hexagon head		rpm	revolutions per minute
	cw	clockwise		hd	head	S	sec	second
	ccw	counter-clockwise		HP	horsepower		sld	solder
	cam	camshaft		hsg	housing		soc hd	socket head
	compr	compressor	I	id	inside diameter		sol	solenoid
	cond	condenser		in.	inch (2.54 centimeters)		spl	special
	conn	connecting, connector		incl	includes		sq	square
	cyl	cylinder		inj	injection		ss	stainless steel
D	def	defrost		int	internal		std	standard
	dehyd	dehydrator		int th	internal tooth		stl	steel
	dia	diameter	L	liq	liquid		suct	suction
	disc	discharge		lg	long		sw	switch
	diff	differential	M	mm	millimeter	T	term	terminal
E	EMI	External Maintenance Interval		mpt	male pipe thread		temp	temperature
	EEC	European Economic Community		mod	modulating		thk	thick
	eng	engine	N	neg	negative	U	us	undersize
	evap	evaporator		No.	number	V	vib	vibrasorber
				NS	not supplied	W	w	watt
				NSS	not sold separately		w/	with
							w/o	without



MODEL G ALUMINUM RECIPROCATING COMPRESSOR

MODEL	DESIGN SEQUENCE
2 CYLINDER	B&H
3 CYLINDER	B&H
4 CYLINDER	B, D, F&H



*Indicates size and rotation of unidirectional oil pump on models so equipped:

	DIRECTION OF ROTATION	CAPACITY
1	Counterclockwise	3 GPM
2	Clockwise	3 GPM
3	Counterclockwise	1.5 GPM
4	Clockwise	1.5 GPM

Model G Compressor

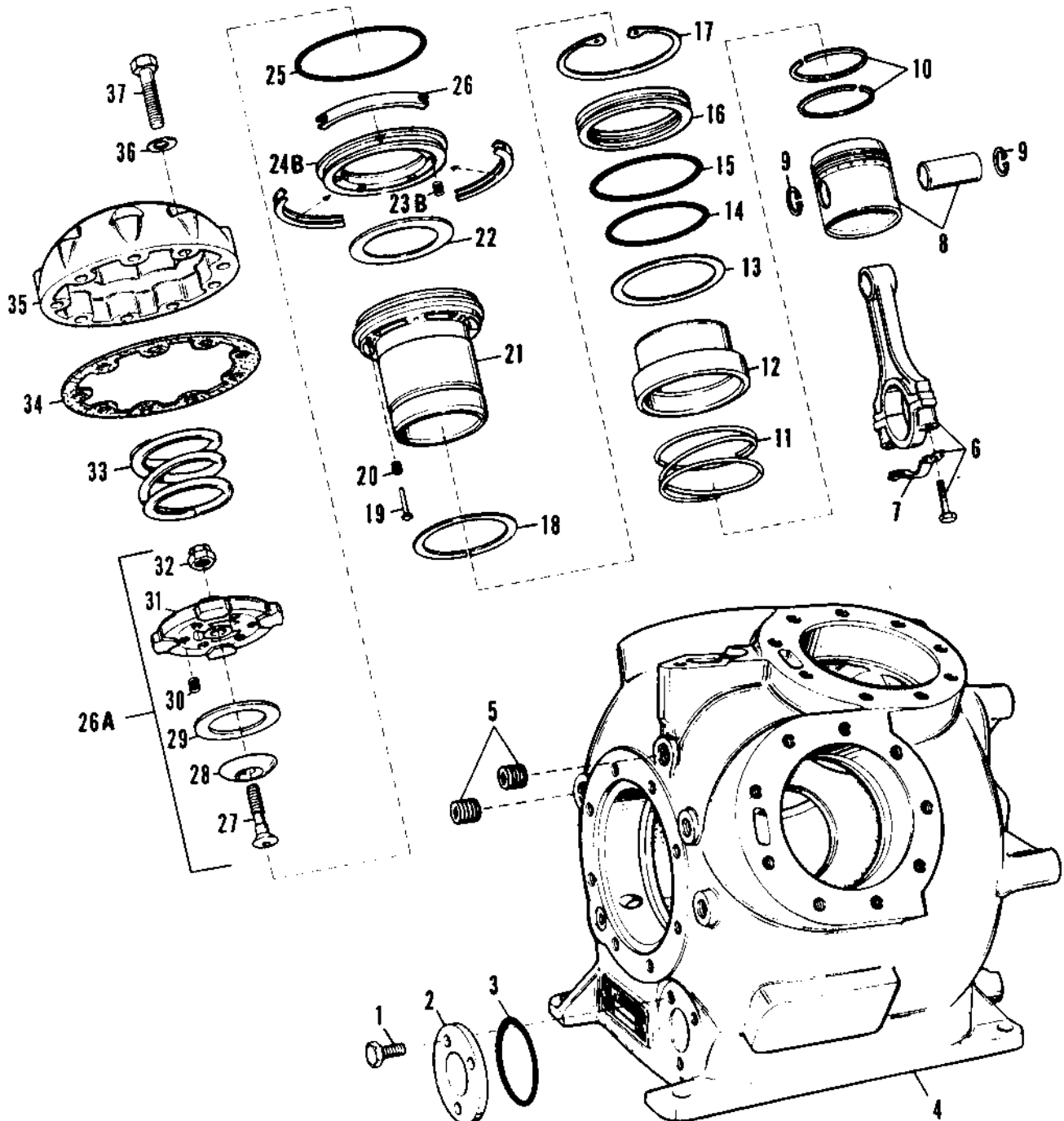
Contents (Alphabetical by Assembly Name)

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CRANKSHAFT AND SEAL	111B9	10-11
OIL BASE	111B7	6-7
OIL PICKUP	111B6	4-5
PISTON GROUP	111B5	2-3
SERVICE VALVES	111B10	12-13

Model G Compressor

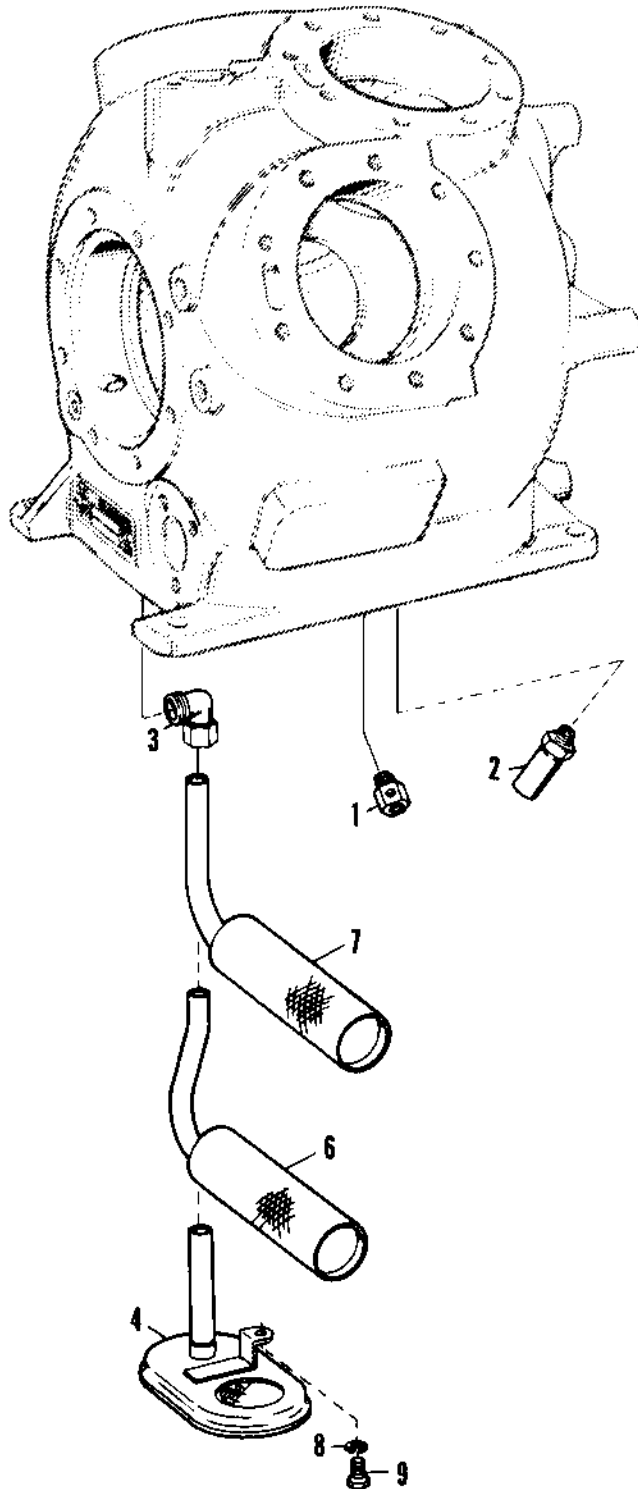
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OIL BASE	111B7	6-7
CRANKSHAFT AND SEAL	111B8	8-9
CRANKSHAFT AND SEAL	111B9	10-11
SERVICE VALVES	111B10	12-13

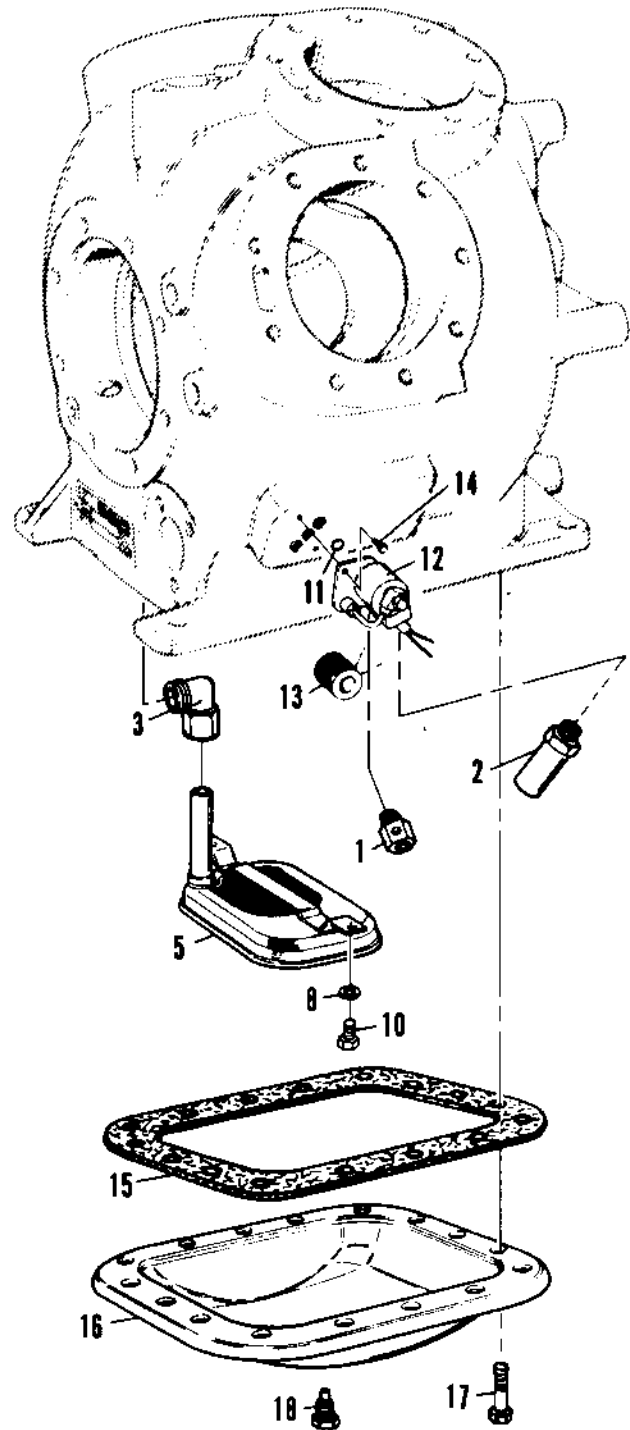


REF	PART#	DESCRIPTION	REQ		
			2 Cyl	3 Cyl	4 Cyl
1	55-538	SCREW - mtg sightglass	3	3	3
2	306-250	SIGHTGLASS	1	1	1
3	303-278	O-RING - sightglass	1	1	1
4	NSS	HOUSING - compressor	1	1	1
5	305-410	PLUG - housing			2
6	301-331	ROD - connecting	2	3	4
7	305-349	LOCK - connecting rod	2	3	4
8	301-316	PISTON HEAD AND PIN	2	3	4
9	305-435	RING - retaining	4	6	8
10	301-324	RING - compression	4	6	8
11	309-918	SPRING - unloader	1	2	2
12	301-318	PISTON - unloader	1	2	2
13	303-255	RING - unloader	1	2	2
14	303-253	O-RING - retainer to unloader piston	1	2	2
15	303-252	O-RING - retainer to housing	1	2	2
16	309-670	RETAINER - unloader	1	2	2
17	303-254	RING - retaining	1	2	2
18	301-324	RING - take-up, unloader	1	2	2
19	305-398	PIN - lift, unloader	6	12	12
20	309-721	SPRING - lift pin, unloader	6	12	12
21	306-719	LINER - cylinder	2	3	4
22	302-201	VALVE - suction	2	3	4
23	309-728	SPRING - suction valve	12	18	24
24	309-564	VALVE PLATE	2	3	4
25	303-250	O-RING - suction valve plate	2	3	4
26	305-434	RING - retaining	6	9	12
	306-593	VALVE - discharge assembly	2	3	4
27	305-474	●SCREW - valve cage	1	1	1
28	301-337	●SEAT - discharge	1	1	1
29	302-202	●VALVE - discharge	1	1	1
30	309-717	●SPRING - discharge valve	6	6	6
31	302-102	●CAGE - discharge valve	1	1	1
32	305-356	●NUT - lock, valve cage screw	1	1	1
33	309-718	SPRING - cylinder head	2	3	4
34	303-699	GASKET - cylinder head	2	3	4
35	301-180	HEAD - cylinder	2	3	4
36	55-402	FLATWASHER	18	27	36
37	55-3641	SCREW - mtg cylinder head	18	27	36

ACTUATOR UNLOADING



SOLENOID UNLOADING OR NO UNLOADING

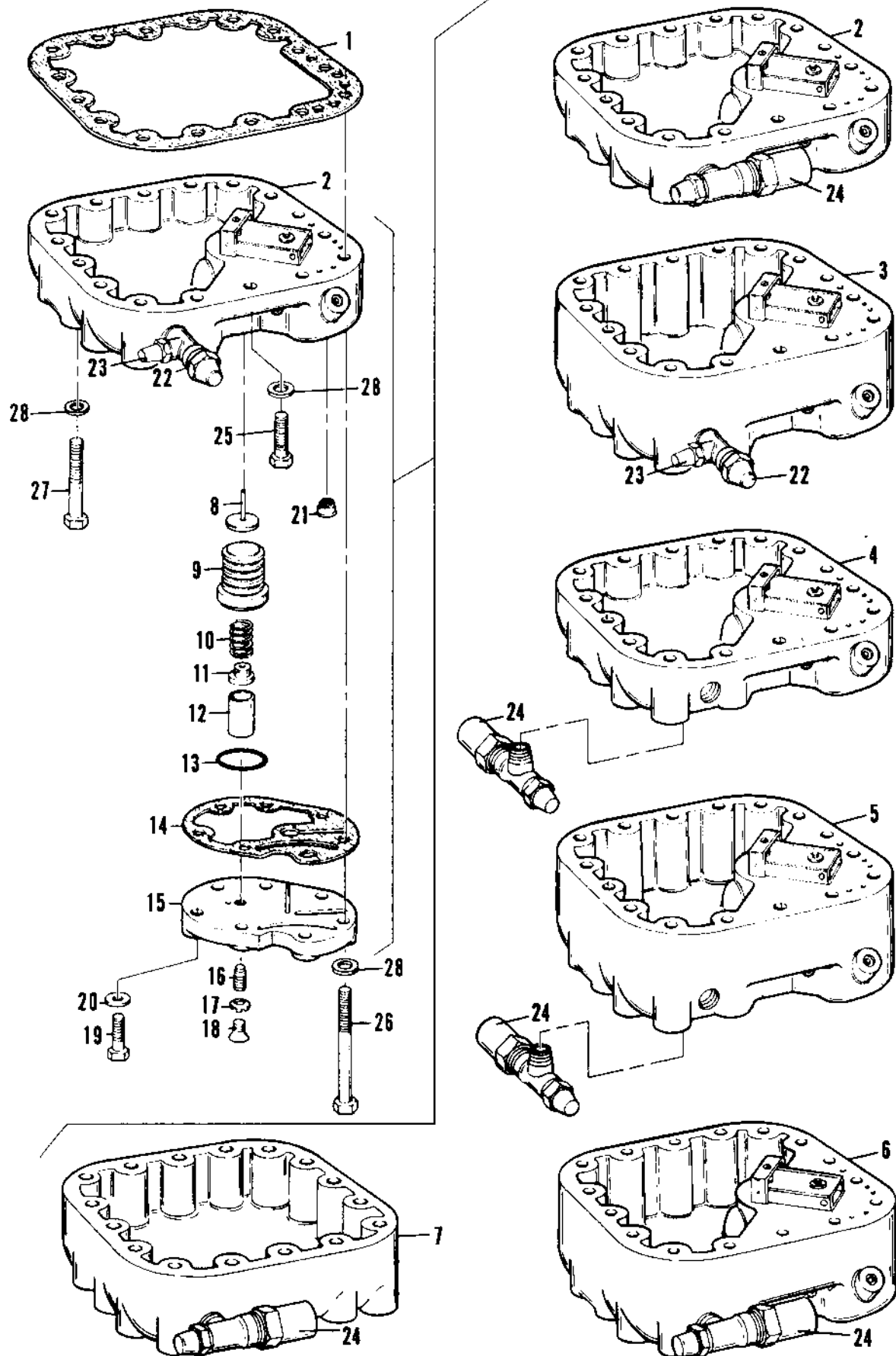


THERMOFILM GRID NO. 111B6
OIL PICKUP

REF	PART#	DESCRIPTION	REQ		
			2 Cyl	3 Cyl	4 Cyl
1	301-306	ORIFICE - oil drain	2	2	2
2	306-533	VALVE - oil regulating	1	1	1
3	305-103	ELBOW - adapter	1	1	1
4	302-172	STRAINER - 2 cylinder w/acuator unloading	1	1	1
5	302-221	STRAINER - 3 and 4 cylinder w/solenoid unloading or wo/unloaders	1	1	1
6	302-265	STRAINER - oil, H design compressor w/acuator unloading having deep oil sump	1		
	302-166	STRAINER - oil, D, F and H compressors w/acuator unlaoding, having deep oil sump (tube length 4.68")			1
7	302-168	STRAINER - oil H design compressor wo/acuator unloading having deep oil sump (tube length 4.00")	1	1	
	302-221	STRAINER - oil D,F and H design compressors w/acuator unlaoding, having shallow sump (tube length 3.11")			1
	302-222	STRAINER - oil H desgin compressor w/acuator unloading having deep oil sump (tube length 4.68")		1	
8	305-559	LOCKWASHER - B design compressor w/acuator unloading	1	1	1
9	305-477	SCREW - (B design compressor w/acuator unloading)	1	1	1
10	305-482	SCREW - machine, 10-24 x 1/2 B design compressor w/solenoid unloading or wo/unloaders	2	2	2
11	303-232	O-RING - solenoid valve mtg (solenoid unloading models)	3	3	3
12	306-688	VALVE - solenoid 3-way 230V, 50-60 cycle, (solenoid unloading models only)	1	1	1
13	304-2138	●COIL - solenoid valve, 220-240/50-60, ASCO No. 99-216-2	1	1	1
14	55-538	SCREW - solenoid valve mounting	2	2	2
15	303-646	GASKET - handhole cover for compressors w/solenoid unloading or wo/unloaders			1
	303-120	GASKET - handhole cover	1		
	303-121	GASKET - handhole cover		1	
16	309-2300	COVER - handhole, for compressors w/solenoid unloading or wo/unloaders	1		
	309-2301	COVER - handhole , for compressors w/solenoid unloading or wo/unloaders			1
17	305-1464	SCREW - mtg cover	14	14	16
18	305-412	PLUG - pipe, magnetic, 1/4 NPT	1	1	1

NOTE: When ordering strainer, also order the adpater elbow 305-103.

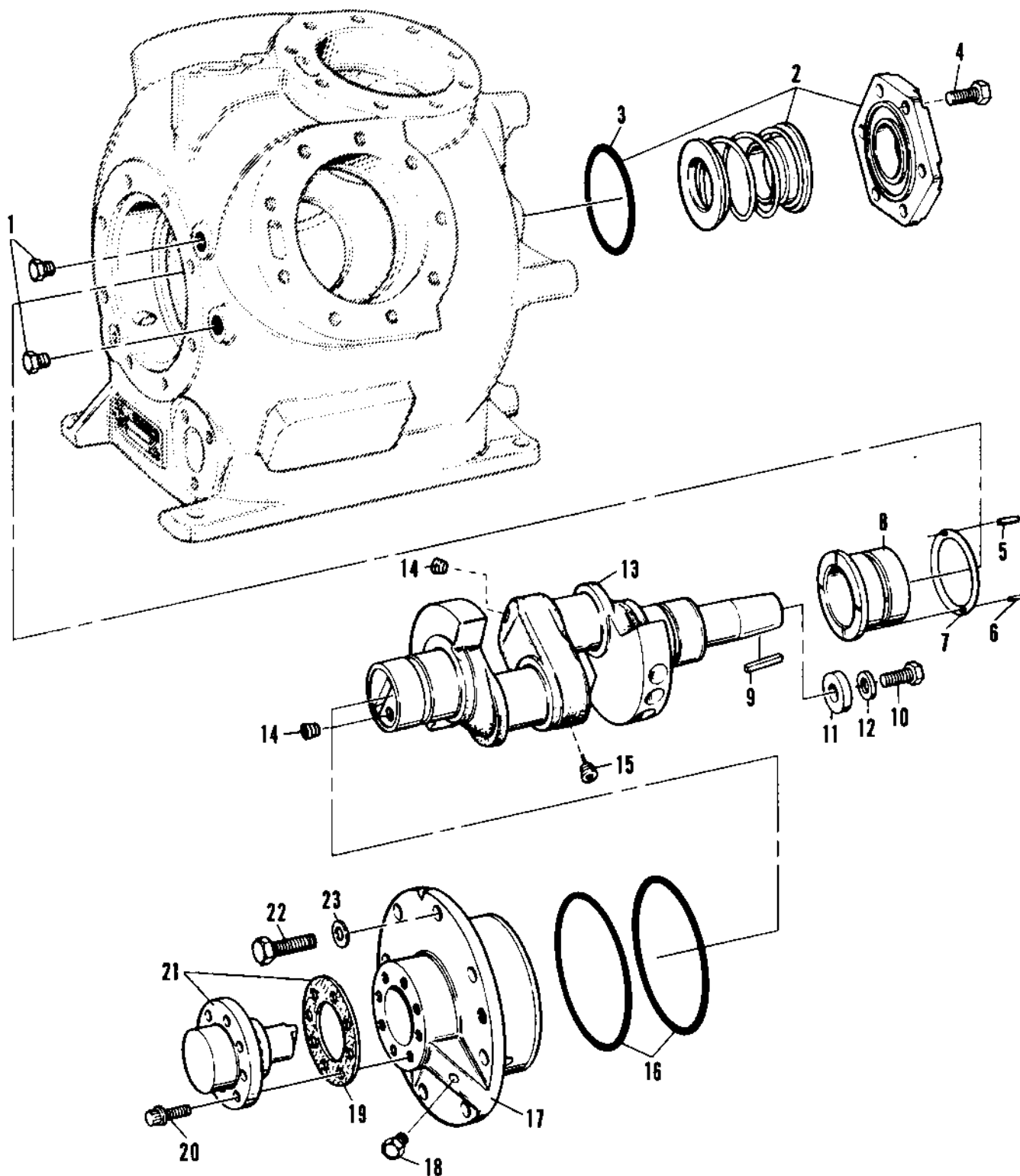
COMPRESSOR PARTS



REF	PART#	DESCRIPTION	REQ		
			2 Cyl	3 Cyl	4 Cyl
1	303-649	GASKET - control handhole cover	1		
	303-117	GASKET - control handhole cover		1	
	303-697	GASKET - control handhole cover			1
2	309-2302	SUMP - shallow, control handhole cover assy. (B design)	1		
	302-266	SUMP - shallow, control handhole cover assy. (B design)		1	
	309-295	SUMP - shallow, control handhole cover assy. (B design)			1
	302-267	SUMP - shallow, control handhole cover, (B design GMC)			1
3	309-844	SUMP - deep, control handhole cover assy. (D design compressor w/reversible oil pump			1
	309-307	SUMP - deep, control handhole cover assy. (F & H design)			1
4	COV-478	SUMP - shallow, control handhole cover (F & H design)			1
5	309-305	SUMP - deep, control handhole cover assy. (F & H design)			1
6	302-268	SUMP - deep, control handhole cover assy. (H design)	1	1	
	309-305	SUMP - deep, control handhole cover assy. (F & H design)			1
7	309-843	SUMP - deep cover handhole, (H design compressor wo/unloaders)		1	
8	305-404	●PLUNGER	1	1	1
9	306-109	●BELLOWS	1	1	1
10	SPG-43	●SPRING	1	1	1
11	301-338	●SEAT - spring	1	1	1
12	SUL-5	●SLEEVE	1	1	1
13	303-266	●O-RING	1	1	1
14	303-702	●GASKET - distributor cover	1	1	1
15	302-269	●COVER - distributor	1		
	302-270	●COVER - distributor		1	
	309-296	●COVER - distributor			1
16	55-129	●SCREW - adjusting bellows	1	1	1
17	305-568	●LOCKWASHER	1	1	1
18	305-475	●SCREW - mtg cover	1	1	1
19	305-467	●SCREW - mtg cover	4	4	4
20	55-402	●FLATWASHER	4	4	4
21	SRN-12	●SCREEN - strainer	1	1	1
22	66-1367	●VALVE - angle 309-295, 307, 844, 2302 & 302-266	1	1	1
23	55-1983	●NUT - cap, hex, 1/4	1	1	1
24	306-578	●VALVE - angle (used only on items 2,4-7)	1	1	1
25	305-467	●SCREW - mtg cover, 1 1/4 in. lg	2	2	2
26	305-473	●SCREW - mtg cover, 3 1/4 in. lg	3	3	3
	305-486	●SCREW - mtg cover, 4 3/4 in. lg	3	3	3
27	305-459	●SCREW - mtg cover, 2 1/2 in. lg	9	9	11
	55-2980	●SCREW - mtg cover, 4 in. lg	9	9	11
28	305-567	●FLATWASHER	14	14	16

COMPRESSOR PARTS

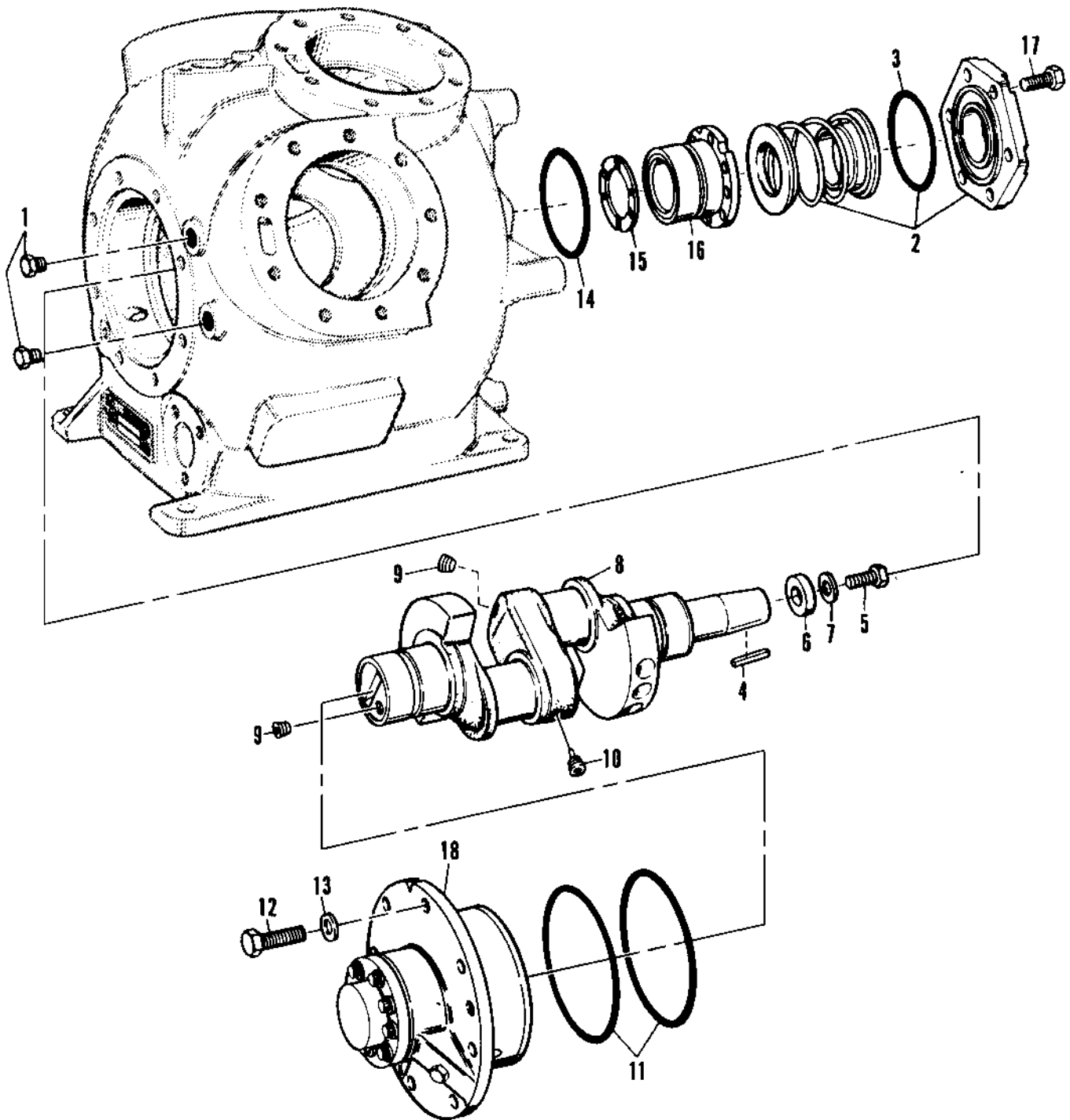
B & D DESIGN



THERMOFILM GRID NO. 111B8
CRANKSHAFT AND SEAL

REF	PART#	DESCRIPTION	REQ		
			2 Cyl	3 Cyl	4 Cyl
1	305-408	PLUG - pipe	3	3	3
2	303-299	SEAL - shaft	1	1	1
3	303-249	O-RING - shaft seal	1	1	1
4	55-329	SCREW - hex head, mtg shaft seal	6	6	6
	305-629	SCREW - socket head, mtg shaft seal	6	6	6
5	305-1465	PIN - dowel	1	1	1
6	305-1466	PIN - roll, (used only on B,D & F design compressors)	1	1	1
7	301-340	SHIM - .015 thick	1	1	1
8		BEARING - (used only on B, D & F compressor wo/seal end bearing head) update compressor per Service Bulletin BG-051980	1	1	1
9	305-333	KEY - shaft	1	1	1
10	305-479	SCREW - crankshaft	1	1	1
11	305-1367	FLATWASHER	1	1	1
12	55-364	LOCKWASHER	1	1	1
13	302-271	CRANKSHAFT - (includes 2 each, item 14)	1		
	301-118	CRANKSHAFT - (includes 2 each, item 14)		1	
	301-119	CRANKSHAFT - (includes 2 each, item 15)			1
14	305-411	PLUG - pipe	2	2	2
15	305-413	PLUG - pipe			1
16	303-267	O-RING - bearing head to housing	2	2	2
17	307-356	BEARING HEAD	1	1	1
18	305-408	PLUG - pipe	1	1	1
19	303-221	GASKET - oil pump, .013 thick (used only w/302-272 and 302-273)	1	1	1
	303-113	GASKET - oil pump, .015 thick (used only w/302-272 and 302-273)	1	1	1
20	55-5188	SCREW - (mounting reversible oil pump on B and D design compressors only)	8	8	8
21	302-272	PUMP - oil, including 1 each 303-112 and 303-113 (B and D design compressors w/unloading which have not been changed to uni-directional pump)	1	1	1
	302-273	PUMP - oil, including 1 each 303-112 and 303-113 (B and D design compressors w/unloading which have not been changed to uni-directional pump)	1	1	1
22	55-529	SCREW - mtg bearing head	8	8	8
23	55-402	FLATWASHER	8	8	8

NOTE: Item 4 compressors are equipped with either button or hex head screws.
 Item 7 used only for setting and play on crankshaft when repairing compressor.
 Item 17 & 18 bearing head for reversible oil pump is no longer available.
 Determine rotation of present oil pump and pump GPM requirements (3 GPM with unloaders, 1.5 GPM without unloaders). Then select from 307-261, 301-181, 307-113 or 301-181. (See 111B9)



THERMOFILM GRID NO. 111B9
CRANKSHAFT AND SEAL

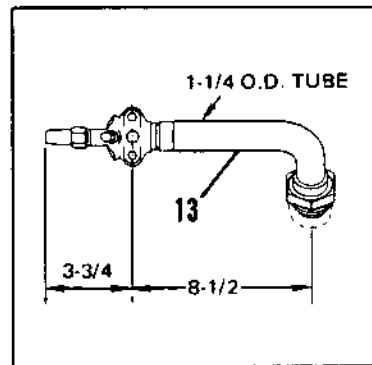
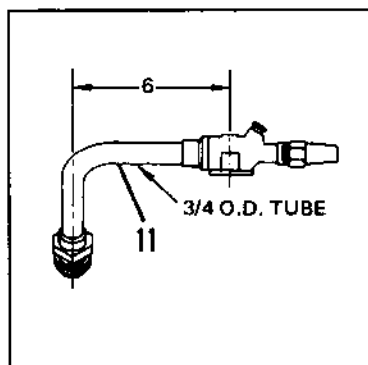
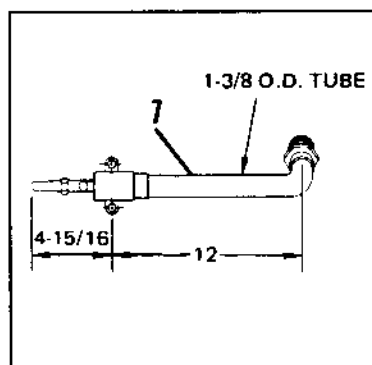
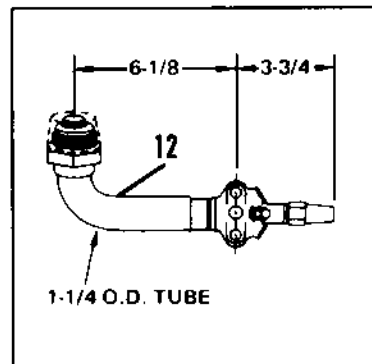
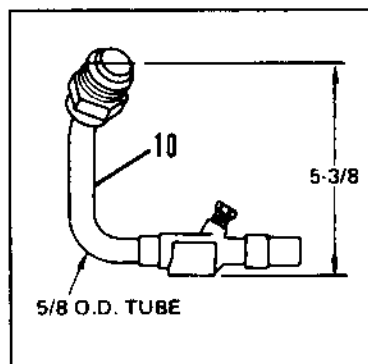
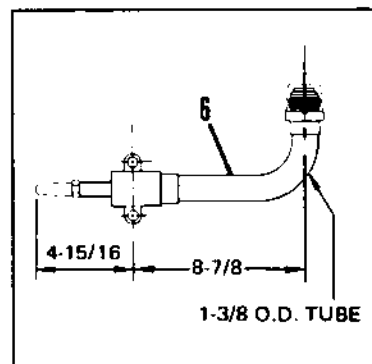
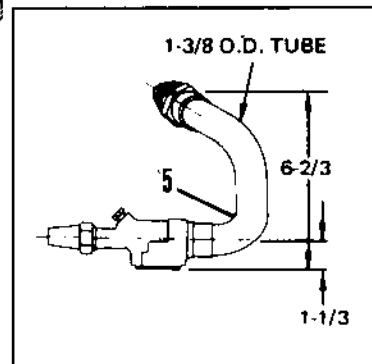
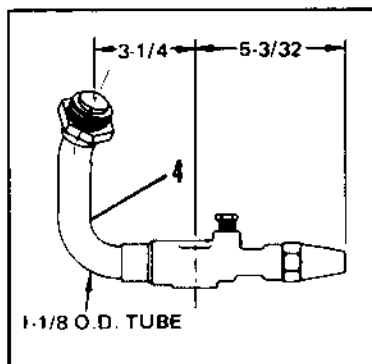
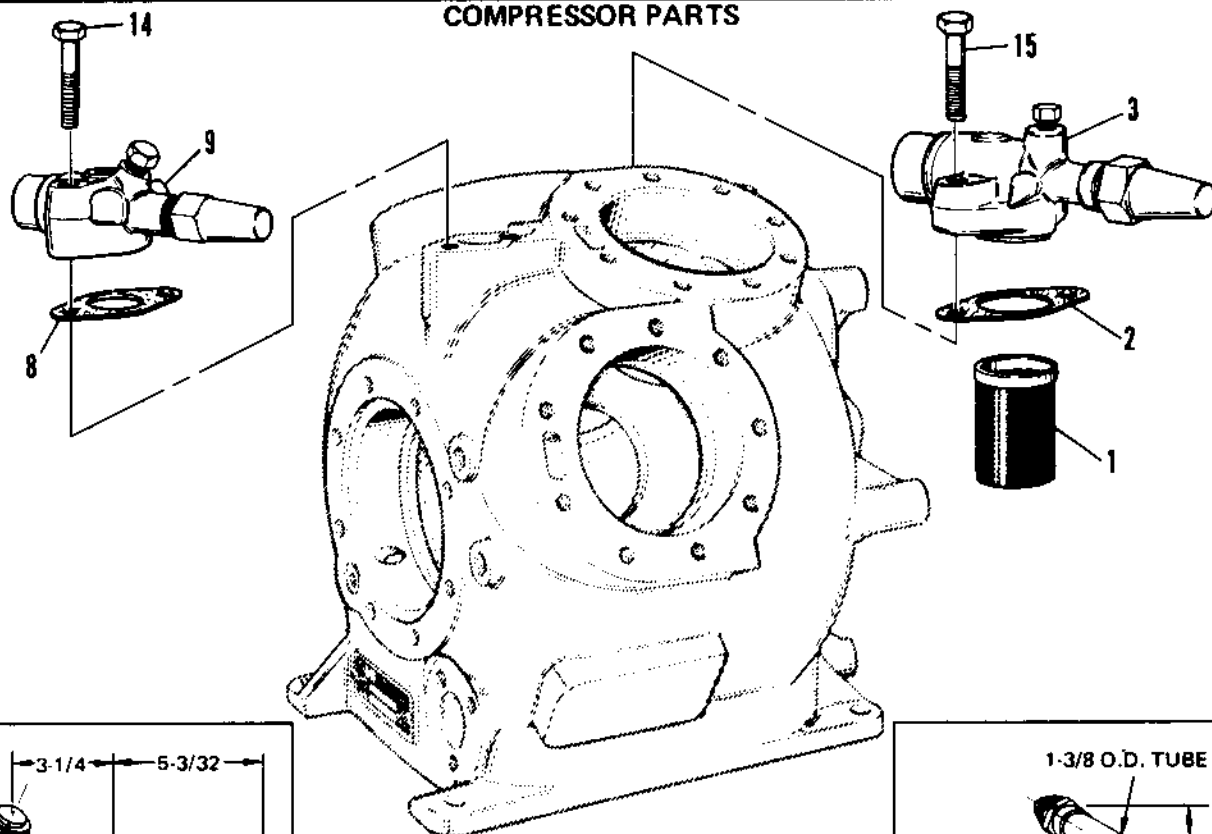
REF	PART#	DESCRIPTION	REQ		
			2 Cyl	3 Cyl	4 Cyl
1	305-408	PLUG - pipe	3	3	3
2	303-299	SEAL - shaft, includes o-ring	1	1	1
3	303-249	●O-RING - shaft seal	1	1	1
4	305-333	KEY - shaft	1	1	1
5	305-479	SCREW - crankshaft	1	1	1
6	305-1367	FLATWASHER	1	1	1
7	55-364	LOCKWASHER	1	1	1
8	301-119	CRANKSHAFT - (including 1 each 305-406, 2 each 305-411)	1	1	1
9	305-411	PLUG - pipe	2	2	2
10	305-413	PLUG - pipe, magnetic	1	1	1
11	304-267	O-RING - bearing head to housing	2	2	2
12	55-529	SCREW - mtg bearing head	8	8	8
13	55-402	FLATWASHER	8	8	8
14	303-249	O-RING - bearing head mounting (H design)	1	1	1
15	307-385	BEARING - thrust (standard .064 thick) (H design compressor)	1	1	1
	307-115	BEARING - thrust (oversize .072 thick) (H design compressors)	1	1	1
16	301-183	BEARING HEAD - seal end (H design compressors)	1	1	1
17	55-129	SCREW - hex head (mounting seal and bearing head, H design compressors)	6	6	6
	305-1460	SCREW - socket button head (mounting seal and bearing head, H design compressors)	6	6	6
18	307-261	BEARING HEAD AND OIL PUMP ASSY - uni-directional (clockwise rotation, 3 GPM) (F and H design compressors with suffix "2" on model no.)	1	1	1
	301-356	BEARING HEAD AND OIL PUMP ASSY - uni-directional (counterclockwise rotation, 3 GPM) (F and H design compressors with suffix "1, 3 or 4" on model no.)	1	1	1

NOTE: Item 15 Part No. 307-115 used only for setting end play on crankshaft when repairing compressor.

Item 17 compressors are equipped with either button or hex head screws.

Item 18 rotation is determined by viewing compressor from oil pump end.

COMPRESSOR PARTS



REF	PART#	DESCRIPTION	REQ		
			2 Cyl	3 Cyl	4 Cyl
1	302-220	STRAINER - suction gas	1		
	302-164	STRAINER - suction gas		1	1
2	303-132	GASKET - suction valve	1		
	303-700	GASKET - suction valve		1	1
3	306-1502	VALVE - suction, 1 1/8	1		
	306-804	VALVE - suction 1 3/8		1	1
4	302-205	VALVE AND TUBE ASSEMBLY - suction, GMC applications	1		
5	306-783	VALVE AND TUBE ASSEMBLY - suction, GMC applications		1	
6	306-651	VALVE AND TUBE ASSEMBLY - suction, GMC applications			1
7	306-526	VALVE AND TUBE ASSEMBLY - suction, GMC applications			1
8	303-131	GASKET - discharge valve	1		
	303-701	GASKET - discharge valve		1	1
9	302-185	VALVE - discharge, 5/8"	1		
	302-274	VALVE - discharge, 3/4"		1	
	302-101	VALVE - discharge, 7/8"			1
10	302-206	VALVE AND TUBE ASSEMBLY - discharge, GMC applications	1		
11	306-697	VALVE AND TUBE ASSEMBLY - discharge, GMC applications		1	
12	306-1166	VALVE AND TUBE ASSEMBLY - discharge, GMC applications			1
13	306-696	VALVE AND TUBE ASSEMBLY - discharge, GMC applications			1
14	305-469	SCREW - suction valve	2		
	55-3674	SCREW - suction valve		2	2
15	55-3674	SCREW - discharge valve, 3/8-16 x 2 dia	2		
	305-456	SCREW - discharge valve, 1/2-13 x 2 dia		2	2
	303-647	KIT - gasket, complete	1		
	303-648	KIT - gasket, complete		1	
	301-228	KIT - gasket, complete			1
	302-275	KIT - oil line (actuator unloading)	1		
	302-276	KIT - oil line (actuator unloading)		1	
	301-229	KIT - oil line (actuator unloading)			1
	302-277	KIT - oil line (actuator unloading)	1		
	302-278	KIT - oil line (actuator unloading)		1	
	302-279	KIT - oil line (actuator unloading)			1