Price $ 5.00

13-9-541
2nd Edition

"ECH"
ELECTRA-SAVER II®
STATIONARY
BASE-MOUNTED
COMPRESSOR

Models

40 HP
ECHQHC, ECHQHD
ECHSHC, ECHSHD

50 HP
ECHQJC, ECHQJD
ECHSJC, ECHSJD

13-9-541

Parts List

COOPER INDUSTRIES

GARDNER–DENVER®

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INSTRUCTIONS FOR ORDERING REPAIR PARTS

When ordering parts, specify Compressor **MODEL,** Method of Cooling, **HORSEPOWER** and **SERIAL NUMBER** (see nameplate on unit). Serial Number is also stamped on top of the cylinder flange to the right of the inlet housing.

All orders for Parts should be placed with the nearest Sales and Service Office.

Where NOT specified, quantity of parts required per compressor or unit is one (1); where more than one is required per unit, quantity is indicated in parenthesis. **SPECIFY EXACTLY THE NUMBER OF PARTS REQUIRED.**

DO NOT ORDER BY SETS OR GROUPS.

To determine the Right Hand and Left Hand side of compressor, stand at the motor end and look toward the compressor. Right Hand and Left Hand are indicated in parenthesis following part name, i.e. (RH) & (LH).

PARTS RETURNED

All claims must be made within five days after receipt of goods. If order has been filled correctly, we cannot allow the return of the goods without our consent and then only on a basis of a charge for service and rehandling plus transportation charges.

Transportation charges must be prepaid. If it is necessary to return a part to the factory for duplication or inspection, do not fail to do the following:

1. Write the nearest Sales and Service Office a letter advising what material you wish to return and why.

2. After receiving permission to return the item or items, obtain from the Sales and Service Office the correct forms filled out by that office for the proper return of material.

3. Place a tag in the package showing your name and address.

4. Tag each article in the box or package stating what and how many are returned.

5. Always give the serial number of the machine from which the parts were removed or the invoice number on which the parts were originally shipped.

All parts returned for credit should be handled in the same manner as that for duplication or inspection.

ECH ELECTRA-SAVER II® BASE MOUNTED COMPRESSORS
THIRTEEN CHARACTER MODEL DESIGNATIONS

NOTICE TO CUSTOMER — To find the construction options for your compressor unit, FILL IN THE BALANCE OF LETTERS OR NUMBERS FROM YOUR UNIT NAMEPLATE .....

	E	C	H										
COLUMN NUMBER:	1	2	3	4	5	6	7	8	9	10	11	12	13

FOLLOW THE LINE DOWN AND OVER FROM EACH LETTER THUS FILLED IN TO FIND THE APPROPRIATE CONSTRUCTION OPTION WITH WHICH YOUR MACHINE IS EQUIPPED. THE NUMBER "9" IN ANY COLUMN SPACE INDICATES "NOT APPLICABLE". THE NUMBER "8" IN ANY COLUMN SPACE INDICATES SPECIAL DESIGN — REFER TO FACTORY ORDER TICKET.

COLUMNS 1, 2 & 3 — COMPRESSOR TYPE & SIZE

COLUMN 4 — TYPE OF CONSTRUCTION
- Q. Air Cooled Base Mounted
- S. Water Cooled Base Mounted

COLUMN 5 — UNIT HORSEPOWER
- H. 40 HP
- J. 50 HP

COLUMN 6 — ENGINEERING SPECIFICATION

COLUMN 7 — COMPRESSOR & SAFETY VALVE GROUP

D. 100 PSIG Service/60 Hz	N. 100 PSIG Service/50 Hz
F. 125 PSIG Service/60 Hz	P. 125 PSIG Service/50 Hz

COLUMN 8 — CONTROL, VOLTAGE TO TRANSFORMER & NEMA CLASS
- G thru L. Constant Speed - Low Demand Mode - Air/Water Cooled
- S thru X. Auto-Start/Timed Stop — Air/Water Cooled

(Letters vary with type of cooling cycle, voltage and Nema Class.)

COLUMN 9 — CONTROL— MAIN STARTER

A. 200 Volt/Nema I	E. 200 Volt/Nema IV
B. 230 Volt/Nema I	F. 230 Volt/Nema IV
C. 460 Volt/Nema I	G. 460 Volt/Nema IV
D. 575 Volt/Nema I	H. 575 Volt/Nema IV

COLUMN 10 — AIR FILTER GROUP
- A. Standard Enclosure/Standard Air Filter
- B. Standard Enclosure/Optional Air Filter (Heavy Duty)

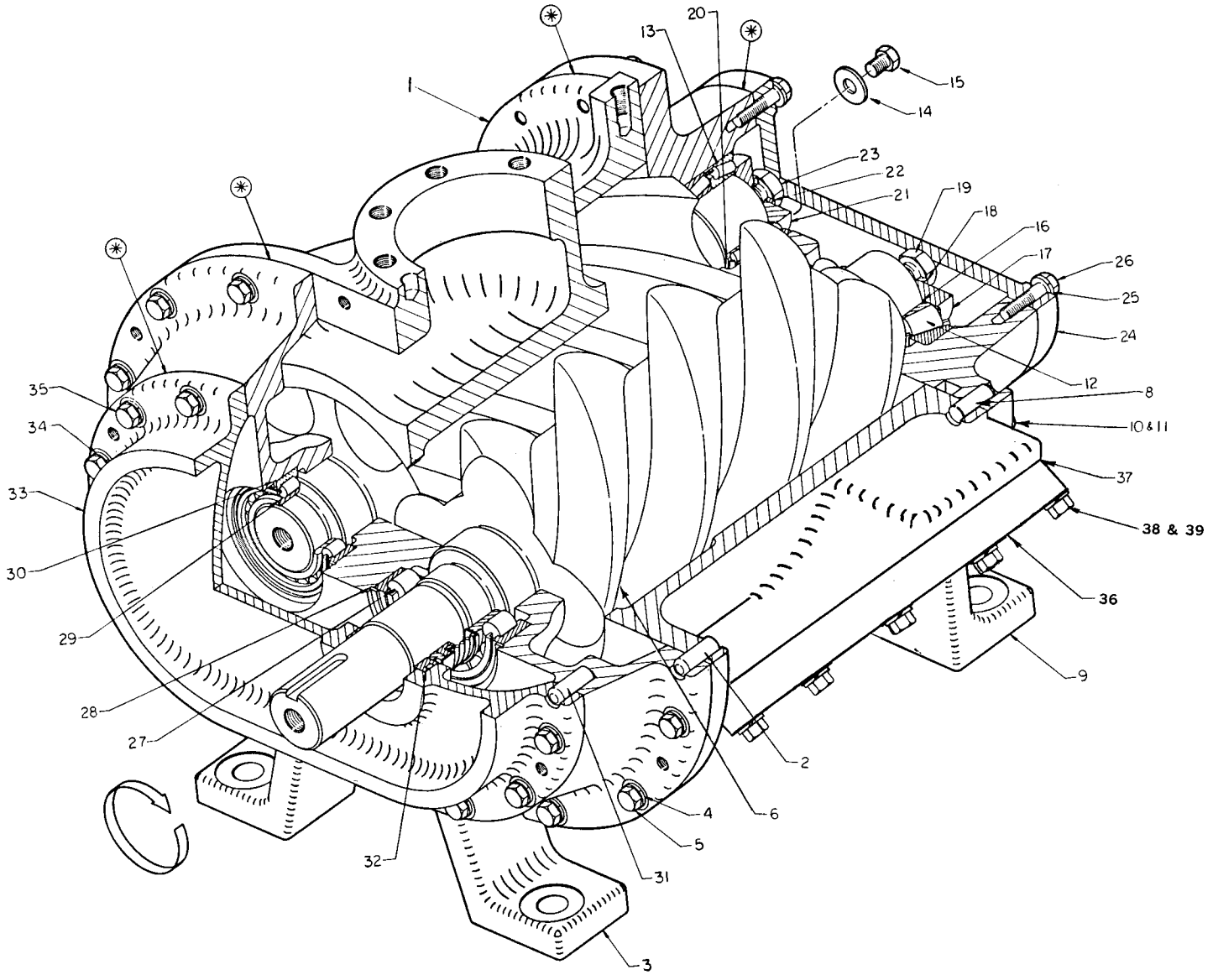
COLUMN 11 — OIL COOLERS
- A. Air Cooled — Steel Core — No Aftercooler
- C. Air Cooled — Steel Core — With Aftercooler
- I. Fresh Water Cooled — No Aftercooler or Regulator
- K. Fresh Water Cooled — With Aftercooler — No Regulator
- L. Fresh Water — With Aftercooler — 50 HP, 100 PSI, 50 Hz Units Only
- M. Fresh Water Cooled — No Aftercooler — With Regulator
- O. Fresh Water Cooled — With Aftercooler and Regulator
- P. Fresh Water With Aftercooler — With Water Temp. Regulator — 50 HP, 100 PSI, 50 Hz Units Only
- U. Salt Water Cooled — No Aftercooler or Regulator
- V. Salt Water Cooled — With Aftercooler — No Regulator
- W. Salt Water Cooled — No Aftercooler — With Regulator
- X. Salt Water Cooled — With Aftercooler and Regulator

COLUMN 12 — COOLER ELECTRICAL
- T. Magnetic Water Shutoff Valve — Nema I — Fresh Water
- U. Magnetic Water Shutoff Valve — Nema IV — Fresh Water

COLUMN 13 — COMPRESSOR DRIVE MOTOR

A. 200V — 60 Hz — ODP	M. 200V — 60 Hz — TEFC
B. 230V — 60 Hz — ODP	N. 230V — 60 Hz — TEFC
C. 460V — 60 Hz — ODP	O. 460V — 60 Hz — TEFC
D. 575V — 60 Hz — ODP	P. 575V — 60 Hz — TEFC

BARE COMPRESSOR



Parts List for Models ECH_HC & ECH_JC see page 139-B37-1a.
Parts List for Models ECH_HD & ECH_JD see page 139-C37-1a.

E76920

139-B37-1

November, 1984

Ref No.	Name of Part	Qty. Req. Per Comp.	Models ECH_ JC 50 HP — 7D** Part Number	Models ECH_ HC & JC 40 HP — 7 N** 50 HP — 7F** Part Number	Models ECH_ HC 40 HP — 7D** 40 HP — 7P** Part Number	Models ECH_ HC 40 HP — 7F** Part Number	Models ECH_ JC 50 HP — 7N** Part Number
	BARE COMPRESSOR	1	SSHMBA01	SSHMBA02	SSHMBA03	SSHMBA04	SSMMBA04
1	CYLINDER	1	201SSH002	201SSH002	201SSH002	201SSH002	201SSM002
2	PIN-DOWEL, Inlet Bearing Housing to Cylinder	2	62M83	62M83	62M83	62M83	62M83
3	HOUSING-BEARING, Inlet End	1	200SSH006	200SSH006	200SSH006	200SSH006	201SSM006
4	WASHER-LOCK, Inlet Bearing Housing to Cylinder	16	95B3	95B3	95B3	95B3	95B3
5	SCREW-HEX CAP, Inlet Bearing Housing to Cylinder	16	75A2	75A2	75A2	75A2	75A7
6	ROTOR KIT (Main & Secondary Pair)	1	SSH77081	SSH77082	SSH77083	SSH77084	SSM77088
8	PIN-DOWEL	2	62M83	62M83	62M83	62M83	62M83
9	HOUSING-BRG, Discharge End	1	202SSH006	202SSH006	202SSH006	202SSH006	202SSM006
‡	PLUG-HEX HEAD PIPE, To Discharge Bearing Housing	2	64T50	64T50	64T50	64T50	64T50
‡	PLUG-CSK HEAD PIPE,	1	64B5	64B5	64B5	64B5	64B5
10	SCREW-HEX CAP, (1/2 x 1-3/4) Bearing Housing to Cylinder	9	75A9	75A9	75A9	75A9	75A9
10	SCREW-HEX CAP, (1/2 x 1-1/4)	6	75A2	75A2	75A2	75A2	75A2
11	WASHER-LOCK	15	95B3	95B3	95B3	95B3	95B3
12	BEARING-ROLLER, Discharge End Main Rotor	1	12BA91	12BA91	12BA91	12BA91	12BA92
13	BEARING-ROLLER, Discharge End Secondary Rotor (Consists of two Bearings & Cup Spacer)	1	12BA90	12BA90	12BA90	12BA90	12BA94
14	WASHER-PLAIN, Discharge End Secondary Rotor	2	95A3	95A3	95A3	95A3	95A3
15	SCREW-HEX CAP, Discharge End Secondary Rotor	2	75A188	75A188	75A188	75A188	75A188
16	SHIM-SET, Discharge End Main Rotor Bearing	1	77H54	77H54	77H54	77H54	77H56
17	PLATE-BEARING RETAINER, Discharge End Main Rotor Bearing	1	201SSH253	201SSH253	201SSH253	201SSH253	201SSM253
18	WASHER-LOCK, Discharge End Main Rotor	1	None	None	None	None	95B7
19	SCREW-HEX CAP, Discharge End Main Rotor Bearing (5/8 x 1-1/2)	1	75A29N	75A29N	75A29N	75A29N	75A17N
20	SHIM-SET, Discharge End Secondary Rotor	1	77H53	77H53	77H53	77H53	77H57
21	PLATE-BEARING RETAINER, Discharge End Secondary Rotor Bearing	1	200SSH253	200SSH253	200SSH253	200SSH253	200SSM253
22	WASHER-LOCK, Discharge End Secondary Rotor	1	None	None	None	None	95B7
23	SCREW-HEX CAP, Discharge End Secondary Rotor Bearing	1	75A29N	75A29N	75A29N	75A29N	75A17N
24	PLATE-BEARING COVER, Discharge End	1	200SSH315	200SSH315	200SSH315	200SSH315	200SSM315
25	WASHER-LOCK (3/8)	See( )	95B3 (9)	95B3 (9)	95B3 (9)	95B3 (9)	95B3 (12)
25	GASKET-RING (3/8)	See( )	25F13 (3)	25F13 (3)	25F13 (3)	25F13 (3)	None
26	SCREW-HEX CAP (3/8 x 1-3/8)	See( )	75A7 (9)	75A7 (9)	75A7 (9)	75A7 (9)	75A7 (12)
26	SCREW-HEX CAP (3/8 x 1-1/2)	See( )	75A7N (3)	75A7N (3)	75A7N (3)	75A7N (3)	None
27	BEARING-ROLLER, Inlet End Main Rotor	1	12BA89	12BA89	12BA89	12BA89	12W34
28	RING-RETAINING, Inlet End Main Rotor	1	74D38	74D38	74D38	74D38	74D39
29	BEARING-ROLLER, Inlet End Secondary Rotor	1	12BA88	12BA88	12BA88	12BA88	12BA93
30	RING-RETAINING, Inlet End Secondary Rotor	1	74D37	74D37	74D37	74D37	74D38
31	PIN-DOWEL, Seal Housing to Cylinder	2	62M83	62M83	62M83	62M83	62M83
32	SEAL-SHAFT, Main Rotor	1	60DD98	60DD98	60DD98	60DD98	60DD98
33	HOUSING-SEAL, Inlet End	1	200SSH362	200SSH362	200SSH362	200SSH362	200SSM362
34	WASHER-LOCK, Seal Housing to Cylinder	16	95B3	95B3	95B3	95B3	95B3
35	SCREW-HEX CAP, Seal Housing to Cylinder	16	75A2	75A2	75A2	75A2	75A2
36	COVER, Cylinder	2	200SSH225	200SSH225	200SSH225	200SSH225	200SSH225
37	GASKET	2	201SSH715	201SSH715	201SSH715	201SSH715	201SSH715
38	SCREW-HEX CAP, Covers to Cylinder (3/8 x 1-1/2)	18	75A7	75A7	75A7	75A7	75A7
39	WASHER-LOCK	18	95B3	95B3	95B3	95B3	95B3
‡	PLUG-SqHd PIPE, Cover Drain (1/8")	2	64AA6	64AA6	64AA6	64AA6	64AA6
‡	PLUG-SqHd PIPE, Side of Cylinder	1	None	None	None	None	64A25
‡	COVER, Bottom of Cylinder	1	None	None	None	None	200SSM225
‡	GASKET	1	None	None	None	None	200SSM715
‡	SCREW-HEX CAP, Bottom Cover to Cylinder (3/8 x 1-1/4)	12	None	None	None	None	75A2
‡	WASHER-LOCK, Bottom Cover to Cylinder	12	None	None	None	None	95B3
‡	PLUG-SqHd PIPE, Bottom Cover to Cylinder	1	None	None	None	None	64AA6
‡	PLUG-HEX HEAD PIPE, Bottom of Cylinder (1-1/4")	1	64T53	64T53	64T53	64T53	64T53
‡	ADAPTOR-UNLOADER	1	None	None	None	None	200ECH186
‡	GASKET-RING	1	None	None	None	None	25C2398
‡	SCREW-HEX CAP, Adaptor to Cylinder	8	None	None	None	None	75A80
‡	WASHER-LOCK, Adaptor to Cylinder	8	None	None	None	None	95B5

*Joints marked with asterisk sealed with Gardner Denver Gasket Eliminator Part No. 25BC222.

**See Matrix/Menu Page for Column 7 designator.

‡ Not shown on illustration.

NOTE: For Gasket & Shim Kit Order Part No. ECH76365.

139-B37-1a

November, 1984

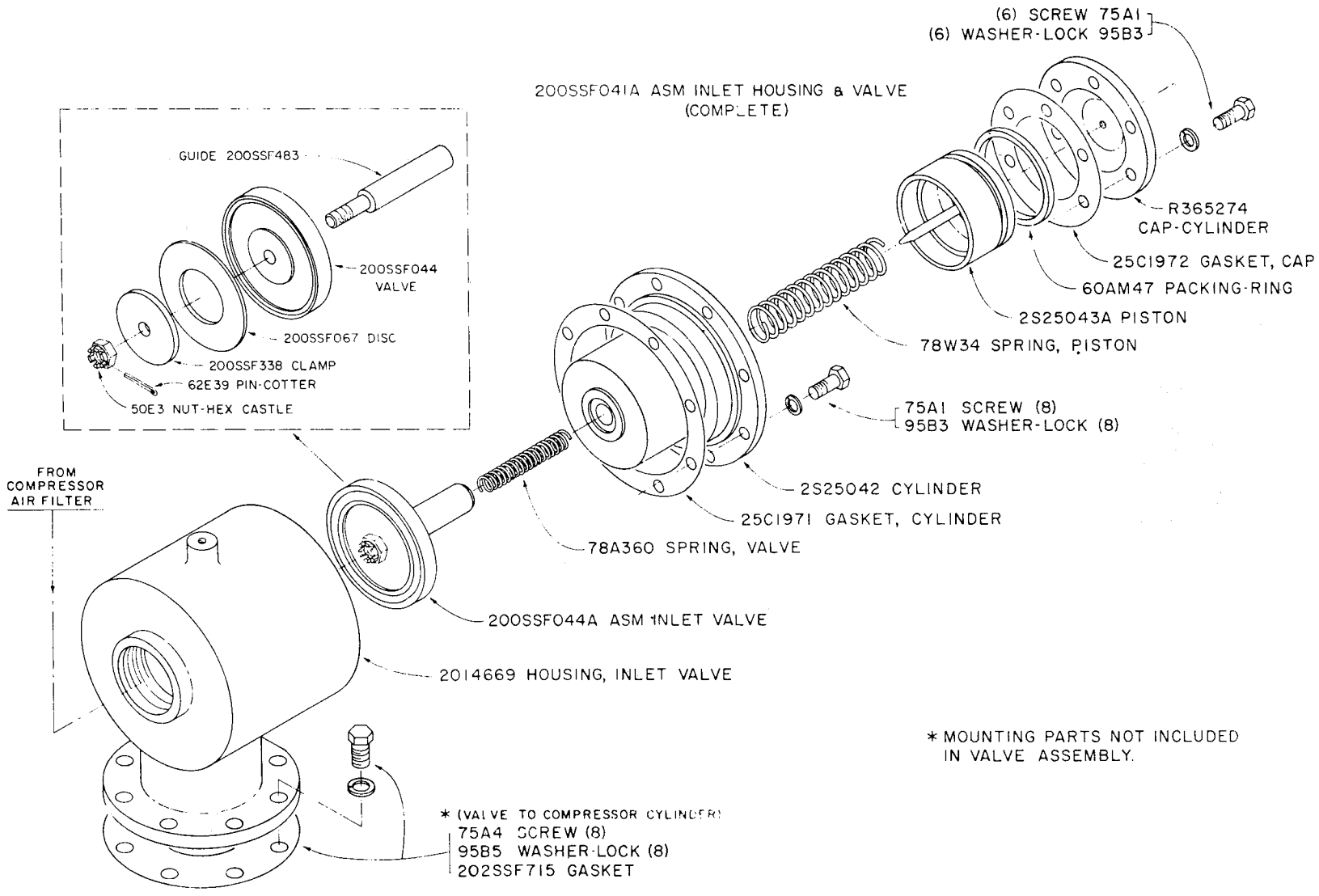
Ref. No.	Name of Part	Qty. Req. Per Comp.	Models ECH_JD 50 HP — 7D** Part No.	Models ECH_HD & JD 40 HP — 7N** 50 HP — 7F ** Part No.	Models ECH_HD 40 HP — 7D** 40 HP — 7P ** Part No.	Models ECH_HD 40 HP — 7F ** Part No.	Models ECH_JD 50 HP — 7N** Part No.
	BARE COMPRESSOR	1	SSHMBB01	SSHMBB02	SSHMBB03	SSHMBB04	SSMMBA04
1	CYLINDER	1	202SSH002	202SSH002	202SSH002	202SSH002	201SSM002
2	PIN-DOWEL, Inlet Bearing Housing to Cylinder	2	62M83	62M83	62M83	62M83	62M83
3	HOUSING-BEARING, Inlet End	1	200SSH006	200SSH006	200SSH006	200SSH006	201SSM006
4	WASHER-LOCK, Inlet Bearing Housing to Cylinder	16	95B3	95B3	95B3	95B3	95B3
5	SCREW-HEX CAP, Inlet Bearing Housing to Cylinder	16	75A2	75A2	75A2	75A2	75A7
6	ROTOR KIT (Main & Secondary Pair)	1	SSH77081	SSH77082	SSH77083	SSH77084	SSM77088
8	PIN-DOWEL	2	62M83	62M83	62M83	62M83	62M83
9	HOUSING-BEARING, Discharge End	1	202SSH006	202SSH006	202SSH006	202SSH006	202SSM006
+	PLUG-HEX HEAD PIPE, To Discharge Bearing Housing	2	64T50	64T50	64T50	64T50	64T50
+	PLUG-CSK HEAD PIPE	1	64B5	64B5	64B5	64B5	64B5
10	SCREW-HEX CAP (1/2 x 1-3/4), Bearing Housing to Cylinder	9	75A9	75A9	75A9	75A9	75A9
10	SCREW-HEX CAP (1/2 x 1-1/4)	6	75A2	75A2	75A2	75A2	75A2
11	WASHER-LOCK	15	95B3	95B3	95B3	95B3	95B3
12	BEARING-ROLLER, Discharge End Main Rotor	1	12BA91	12BA91	12BA91	12BA91	12BA92
13	BEARING-ROLLER, Discharge End Secondary Rotor (Consists of [2] Bearings & Cup Spacer)	1	12BA90	12BA90	12BA90	12BA90	12BA94
14	WASHER-PLAIN, Discharge End Secondary Rotor	2	95A3	95A3	95A3	95A3	95A3
15	SCREW-HEX CAP, Discharge End Secondary Rotor	2	75A5N	75A5N	75A5N	75A5N	75A5N
16	SHIM-SET, Discharge End Main Rotor Bearing	1	77H54	77H54	77H54	77H54	77H56
17	PLATE-BEARING RETAINER, Discharge End Main Rotor Bearing	1	200SSM253	200SSM253	200SSM253	200SSM253	200SSM253
18	WASHER-LOCK, Discharge End Main Rotor	1	None	None	None	None	95B7
19	SCREW-HEX CAP, Discharge End Main Rotor Bearing (5/8 x 1-1/2)	1	75A29N	75A29N	75A29N	75A29N	75A17N
20	SHIM-SET, Discharge End Secondary Rotor	1	77H53	77H53	77H53	77H53	77H57
21	PLATE-BEARING RETAINER, Discharge End Secondary Rotor Bearing	1	200SSH253	200SSH253	200SSH253	200SSH253	200SSM253
22	WASHER-LOCK, Discharge End Secondary Rotor	1	None	None	None	None	95B7
23	SCREW-HEX CAP, Discharge End Secondary Rotor Bearing	1	75A29N	75A29N	75A29N	75A29N	75A29N
24	PLATE-BEARING COVER, Discharge End	1	200SSH315	200SSH315	200SSH315	200SSH315	200SSM315
25	WASHER-LOCK (3/8)	See ( )	95B3 (9)	95B3 (9)	95B3 (9)	95B3 (9)	95B3 (12)
25	GASKET-RING (3/8)	3	25F13	25F13	25F13	25F13	None
26	SCREW-HEX CAP (3/8 x 1-3/8)	See ( )	75A7 (9)	75A7 (9)	75A7 (9)	75A7 (9)	75A7 (12)
26	SCREW-HEX CAP (3/8 x 1-1/2)	3	75A7N	75A7N	75A7N	75A7N	None
27	BEARING-ROLLER, Inlet End Main Rotor	1	12BA89	12BA89	12BA89	12BA89	12W34
28	RING-RETAINING, Inlet End Main Rotor	1	74D38	74D38	74D38	74D38	74D39
29	BEARING-ROLLER, Inlet End Secondary Rotor	1	12BA88	12BA88	12BA88	12BA88	12BA93
30	RING-RETAINING, Inlet End Secondary Rotor	1	74D37	74D37	74D37	74D37	74D38
31	PIN-DOWEL, Seal Housing to Cylinder	2	62M83	62M83	62M83	62M83	62M83
32	SEAL-SHAFT, Main Rotor	1	60DD98	60DD98	60DD98	60DD98	60DD98
33	HOUSING-SEAL, Inlet End	1	200SSH362	200SSH362	200SSH362	200SSH362	200SSM362
34	WASHER-LOCK, Seal Housing to Cylinder	16	95B3	95B3	95B3	95B3	95B3
35	SCREW-HEX CAP, Seal Housing to Cylinder	16	75A2	75A2	75A2	75A2	75A2
36	COVER, Cylinder	2	200SSH225	200SSH225	200SSH225	200SSH225	200SSH225
37	GASKET	2	201SSH715	201SSH715	201SSH715	201SSH715	201SSH715
+	COVER, Oil Sump	1	201SSH225	201SSH225	201SSH225	201SSH225	None
+	GASKET	1	200SSH715	200SSH715	200SSH715	200SSH715	None
38	SCREW-HEX CAP, Covers to Cylinder (3/8 x 1-1/2)	See ( )	75A7 (28)	75A7 (28)	75A7 (28)	75A7 (28)	75A7 (18)
39	WASHER-LOCK	See ( )	95B3 (28)	95B3 (28)	95B3 (28)	95B3 (28)	95B3 (18)
+	PLUG-SqHd PIPE, Cover Drain (1/8")	3	64AA6	64AA6	64AA6	64AA6	64AA6
+	PLUG-SqHd PIPE, Side of Cylinder	1	None	None	None	None	64A25
+	PLUG-SqHd PIPE	1	64A25	64A25	64A25	64A25	None
+	COVER, Bottom of Cylinder	1	None	None	None	None	200SSM225
+	GASKET	1	None	None	None	None	200SSM715
+	SCREW-HEX CAP, Bottom Cover to Cylinder (3/8 x 1-1/4)	12	None	None	None	None	75A2
+	WASHER-LOCK, Bottom Cover to Cylinder	12	None	None	None	None	95B3
+	PLUG-SqHd PIPE, Bottom Cover to Cylinder	1	None	None	None	None	64AA6
+	PLUG-HEX HEAD PIPE, Bottom of Cylinder (1-1/4")	1	64T53	64T53	64T53	64T53	64T53
+	ADAPTOR-UNLOADER	1	None	None	None	None	200ECH186
+	GASKET-RING	1	None	None	None	None	25C2398
+	SCREW-HEX CAP, Adaptor to Cylinder	8	None	None	None	None	75A80
+	WASHER-LOCK, Adaptor to Cylinder	8	None	None	None	None	95B5

* Joints marked with asterisk sealed with Gardner-Denver Gasket Eliminator Part No. 25BC22.
** See Matrix/Menu Page for Column 7 designator.

\+ Not shown on illustration.
NOTE: For Gasket and Shim Kit order Part No. ECH76365.

139-C37-1a

INLET VALVE & MOUNTING GROUP

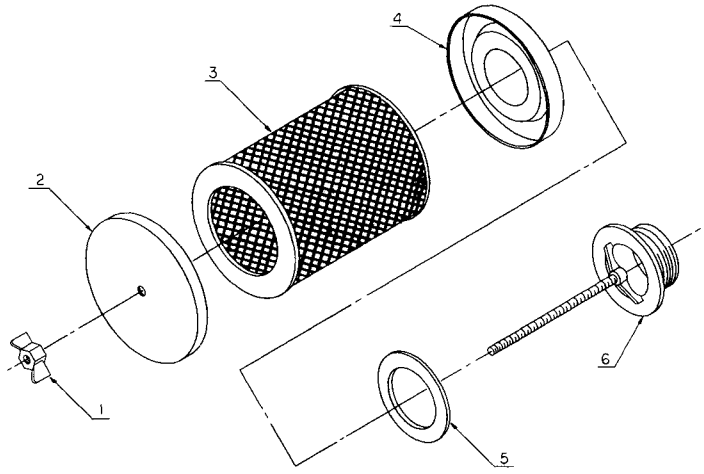


* MOUNTING PARTS NOT INCLUDED IN VALVE ASSEMBLY.

D75740

139-A37-2

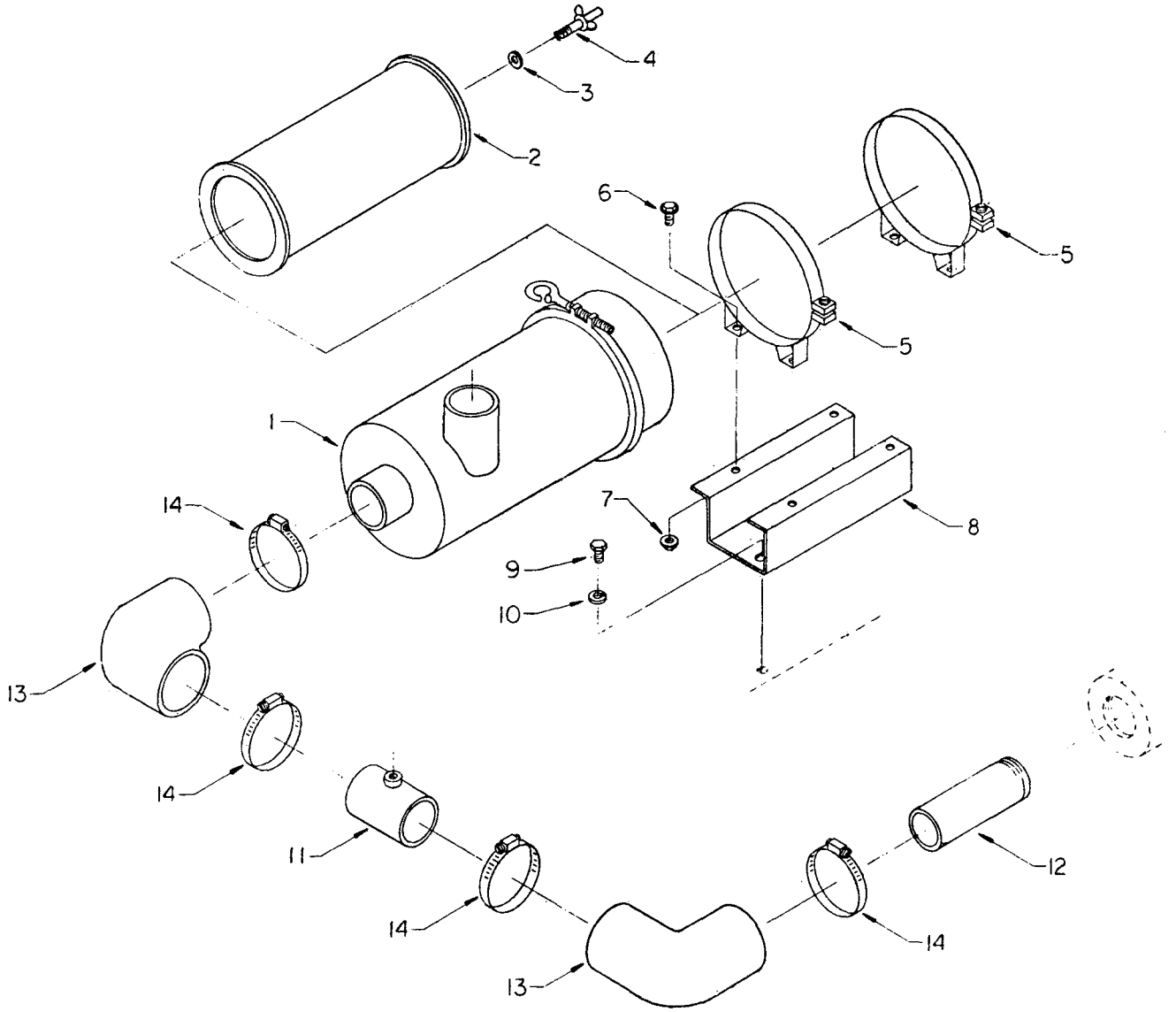
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



C76763

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models Column Option 10-A
	AIR FILTER GROUP — STANDARD (Nonmetallic)		Part No.
	COMPLETE AIR FILTER, Incl. Ref. No. 1 thru 6	1	5L109
1	NUT-WING	1	2109583
2	TOP	1	2109708
3	ELEMENT	1	2008616
4	PLATE-BASE	1	2109587
5	GASKET	1	2008150
6	BASE & STEM	1	- - - - -

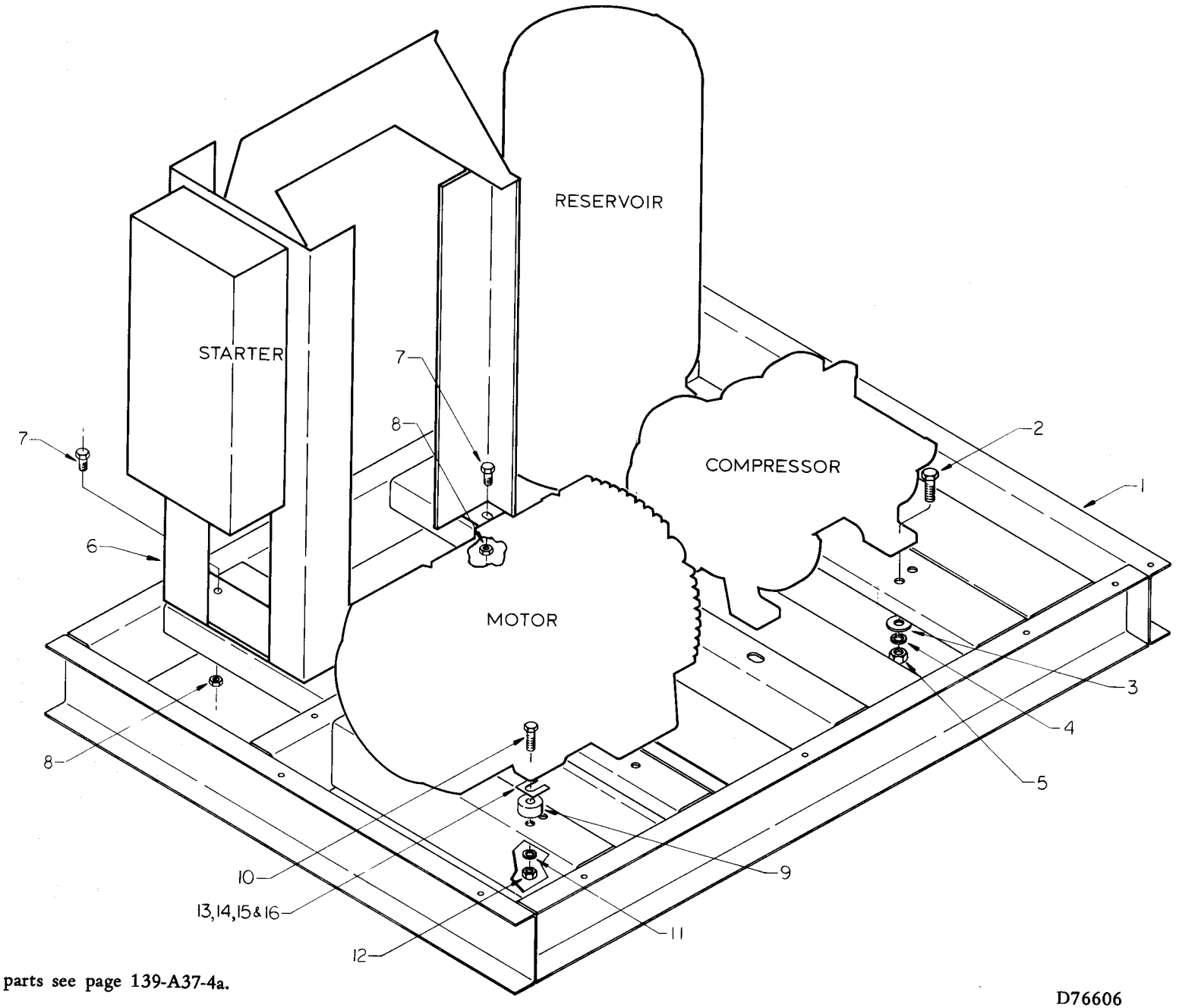
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



D76598

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models Column Option 10-B
	HEAVY DUTY AIR FILTER		Part No.
1	FILTER-AIR, Heavy Duty, Includes Ref. No. 2, 3, 4 & 5	1	5B476
2	ASM ELEMENT, Air Filter	1	2010228
3	WASHER-SEAL, Air Filter	1	2010230
4	BOLT-WING, Air Filter	1	2010229
5	BAND-MOUNTING, Filter to Bracket	2	5L30
6	SCREW-FLANGED, Filter to Bracket	4	75LM50
7	NUT-FLANGED, Filter to Bracket	4	50AW4
8	BRACKET, Filter	1	201ECH017
9	SCREW-HEX CAP, Bracket to Compressor	2	75A4
10	WASHER-LOCK, Bracket to Compressor	2	95B5
11	TUBE, Filter	1	200ECH294
12	NIPPLE-PIPE, Filter to Compressor	1	63AJ40X66
13	HOSE-MOLDED	2	29Z108
14	CLAMP-HOSE	4	29B34

BASE MOUNTING



D76606

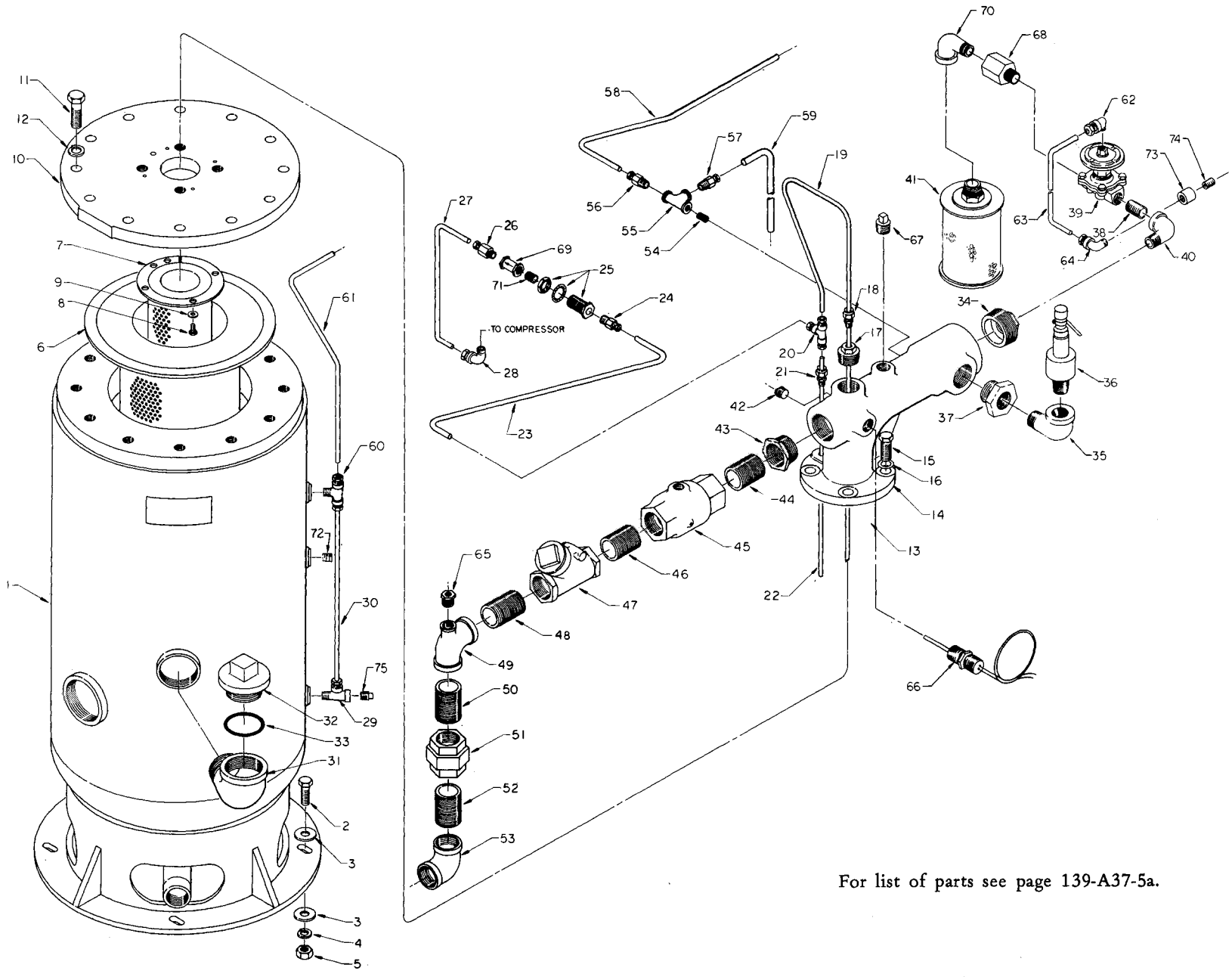
For list of parts see page 139-A37-4a.

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models
	BASE MOUNTING		Part No.
1	BASE	1	200ECH285
2	SCREW-HEX CAP, Compressor to Base	4	75A47
3	WASHER-PLAIN, Compressor to Base	4	95A7
4	WASHER-LOCK, Compressor to Base	4	95B7
5	NUT-HEX, Compressor to Base	4	50B7
6	BRACKET, Starter	1	200ECH142
7	SCREW-FLANGED, Starter Bracket to Base	4	75K48
8	NUT-FLANGED, Starter Bracket to Base	4	50AW5
9	SPACER, Motor to Base	4	200ESO144
10	SCREW-HEX CAP, Motor to Base	4	75A60
‡	WASHER-PLAIN, Motor to Base	4	95A7
11	WASHER-LOCK, Motor to Base	4	95B7
12	NUT-HEX, Motor to Base	4	50B7
13	SHIM, Motor to Base (.003)	4	77E11
14	SHIM, Motor to Base (.008)	4	77E12
15	SHIM, Motor to Base (.031)	4	77E13
16	SHIM, Motor to Base (.062)	4	77E14

‡ Not shown on illustration.

OIL RESERVOIR & AIR DISCHARGE PIPING



For list of parts see page 139-A37-5a.

E76600

139-A37-5
Revised November, 1983

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

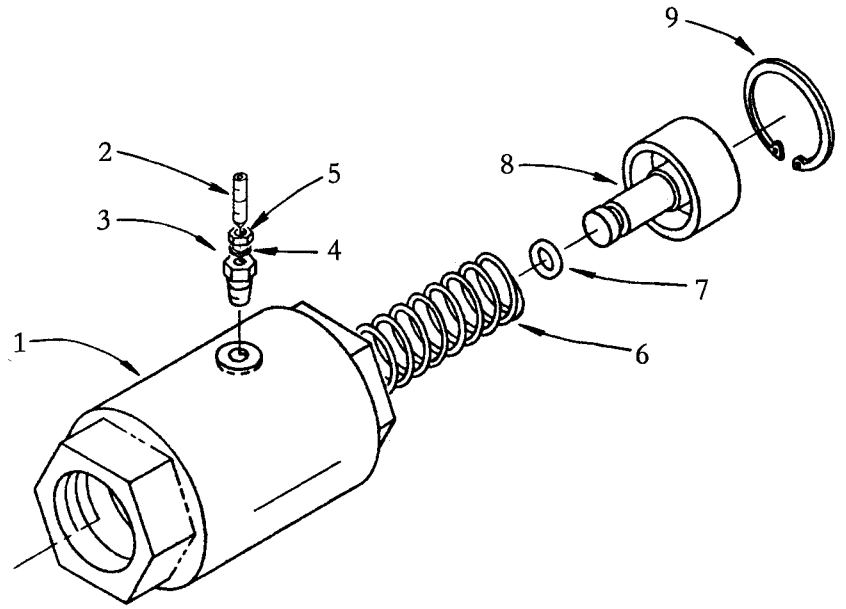
Ref. No.	Name of Part	Qty.	All ECH Models
	OIL RESERVOIR & AIR DISCHARGE PIPING		Part No.
1	RESERVOIR-OIL	1	200ECH037
2	SCREW-HEX CAP, Reservoir to Base	4	75A20
3	WASHER-PLAIN, Reservoir to Base	8	95A5
4	WASHER-LOCK, Reservoir to Base	4	95B5
5	NUT-HEX, Reservoir to Base	4	50B5
6	SEPARATOR KIT, First Stage	1	2109430
7	SEPARATOR KIT, Second Stage	1	2109429
8	SCREW-HEX CAP, Separator to Cover Plate	4	75A32N
9	WASHER-PLAIN, Separator to Cover Plate	4	95B1
10	COVER, Reservoir	1	200ECF225
11	SCREW-HEX CAP, Cover to Reservoir	12	75A43
12	WASHER-LOCK, Cover to Reservoir	12	95B7
+	GASKET (Eliminator), Manifold to Cover	1	25BC222
14	MANIFOLD-DISCHARGE, Air Discharge	1	S600285
15	SCREW-HEX CAP, Manifold to Cover	4	75A29
16	GASKET-RING, Manifold to Cover	4	25F13
	(Oil Return Line – Reservoir to Cylinder)		
17	BUSHING-PIPE, Discharge Manifold	1	64EB81
18	CONNECTOR-TUBE, Tube to Bushing	1	86N15
19	TUBE-FORMED, Dip Tube (Second Stage)	1	201ESG857
20	TEE-TUBE	1	86E155
21	CONNECTOR-TUBE, Cover	1	86N15
22	TUBE, Dip Tube (First Stage)	17"	85E4A
23	TUBE, Tube Tee to Bulkhead Fitting	1	212ECH857
24	CONNECTOR-TUBE, Tube to Bulkhead Fitting	1	86E4
25	COUPLING-PIPE, Enclosure Bulkhead Fitting	1	64EB368
26	CONNECTOR-TUBE, Bulkhead Fitting	1	86E4
27	TUBE, Bulkhead Fitting to Compressor	1	222ECH857
28	ELBOW-TUBE, Compressor Cylinder	1	86E59
29	TEE-TUBE, Oil Level Gauge	1	2009284 *
30	TUBE, Plastic	16"	85G3 *
+	PLATE-DATA, Oil Level Gauge	1	200ESG454
31	MANIFOLD-OIL, Oil Filler	1	200LSF262
32	ASM FILLER COVER, Includes Ref. No. 33	1	200SPF156A
33	O-RING, Filler Cover Seal	1	25AH5
34	BUSHING-PIPE, Manifold to Air Control Valve	1	64E29
35	ELBOW-PIPE STREET, Manifold to Safety Valve	1	64D6
36	VALVE-SAFETY, 125 PSI (100/110 PSIG Service)	1	90AR381
36	VALVE-SAFETY, 150 PSI (125 PSIG Service)	1	90AR382
37	BUSHING-PIPE, Manifold to Blowdown Valve	1	64E6
38	NIPPLE-PIPE, Blowdown Valve	1	63F21

Ref. No.	Name of Part	Qty.	All ECH Models
	OIL RESERVOIR & AIR DISCHARGE PIPING (Continued)		Part No.
39	VALVE-AIR CONTROL, Automatic Blowdown	1	90AR324
40	ELBOW-PIPE STREET, Muffler	1	64D5
41	MUFFLER, Blowdown	1	43E6
42	PLUG-CSK PIPE, Discharge Manifold	1	64B1
43	BUSHING-PIPE, Discharge Manifold	1	64E22
44	NIPPLE-PIPE	1	63J15
45	ASM MINIMUM PRESSURE VALVE	1	200SPF527A
46	NIPPLE-PIPE	1	63J15
47	VALVE-CHECK	1	90J131
48	NIPPLE-PIPE	1	63J16
49	TEE-PIPE	1	64P34
50	NIPPLE-PIPE	1	63J26
51	UNION-STRAIGHT	1	64Z5
52	NIPPLE-PIPE	1	63J26
53	ELBOW-PIPE	1	64C7
54	NIPPLE-PIPE, Discharge Manifold	1	63D1
55	TEE-PIPE	1	64G3
56	CONNECTOR-TUBE (1/4 NPT x 1/4 T)	1	86E4
57	CONNECTOR-TUBE (1/4 NPT x 3/8 T)	1	86E5
58	TUBE, Manifold to Air Pressure Gauge Connector	1	217ECH857
59	TUBE, Manifold to Line Filter Tee	1	218ECH857
60	TEE-TUBE, Reservoir	1	86E119
61	TUBE, Differential Pressure Gauge Connector to Reservoir	1	208ECH857
62	ELBOW-TUBE, Blowdown Valve	1	86E59
63	TUBE, Control Box to Blowdown Valve	1	214ECH857
64	ELBOW-TUBE, Control Box Lower LH Bulkhead Fitting	1	86E60
65	BUSHING-PIPE, Discharge Line Tee to Shuttle Valve	1	64E2
66	SWITCH-TEMPERATURE, High Air Discharge (Probe)	1	21D81
67	PLUG-PIPE	1	64AA7
+	SEPARATOR & TRAP, Moisture (Shipped Loose)	1	83C17
68	ORIFICE, Muffler	1	2011762
69	VALVE-CHECK	1	2009283
70	ELBOW-PIPE, Muffler	1	64D5
71	NIPPLE-PIPE	1	63D1
72	PLUG-CSK PIPE, Oil Reservoir	1	64B15
73	COUPLING-PIPE	1	64BK2
74	NIPPLE-PIPE	1	63D1
75	PLUG	1	86N142 *

\+ Not shown on illustration.
* Included in Oil Level Gauge Kit Part No. EAQ78212.

139-A37-5a
Revised May, 1986

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

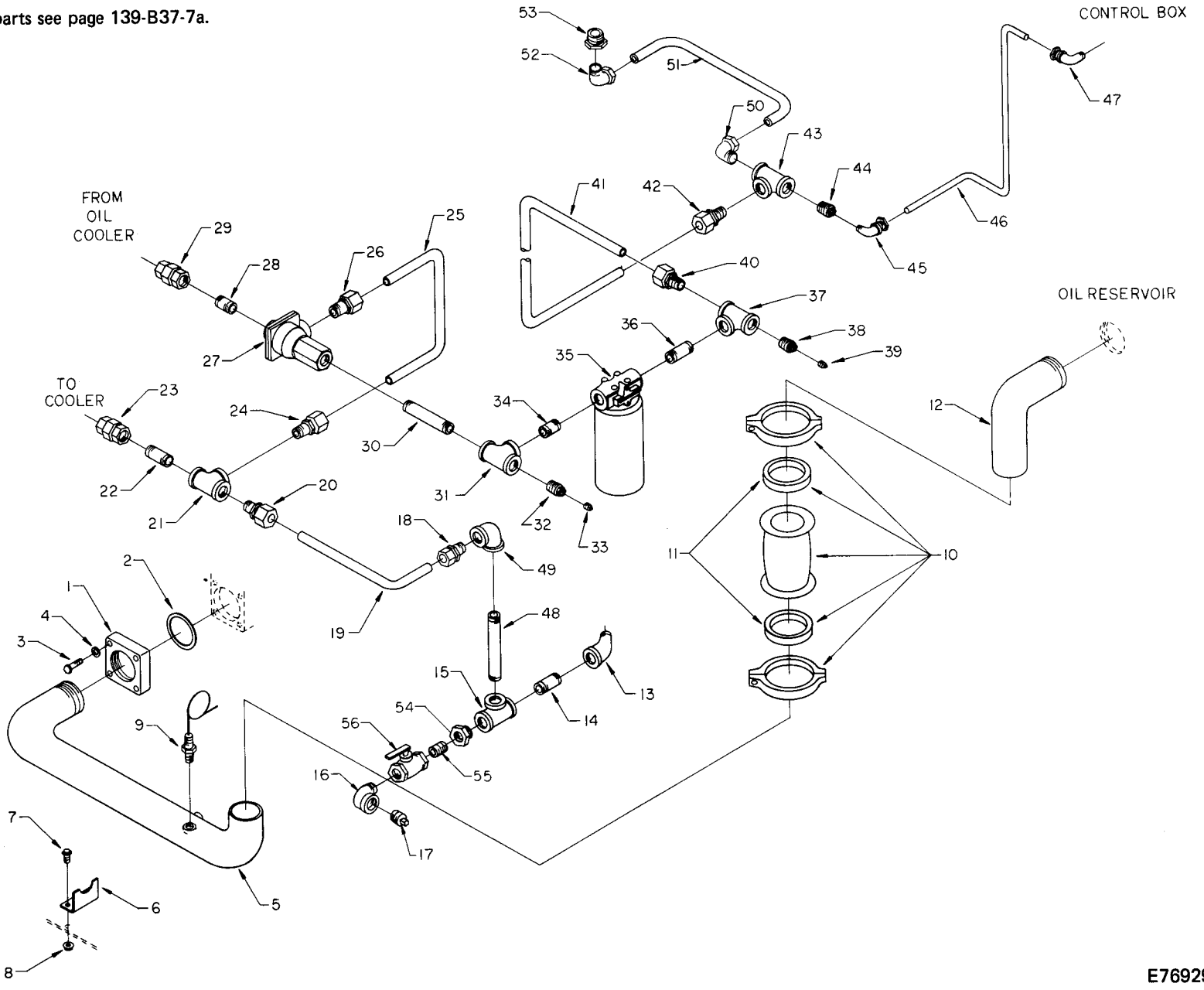


C75769X

Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models
	MINIMUM PRESSURE VALVE		Part No.
	ASM MINIMUM PRESSURE VALVE, Incl. Ref. No. 1 thru 6	1	200SPF527A
1	HOUSING, Valve	1	202SPF182
2	SCREW-ADJUSTING	1	200ESM176
3	ADAPTOR	1	200ESM170
4	GASKET-RING	1	25F39
5	LOCKNUT	1	50AW17
6	SPRING	1	78W13
7	O-RING	1	25AM18
8	VALVE	1	200SPF527
9	RING-RETAINING	1	65W44

OIL PIPING

For list of parts see page 139-B37-7a.



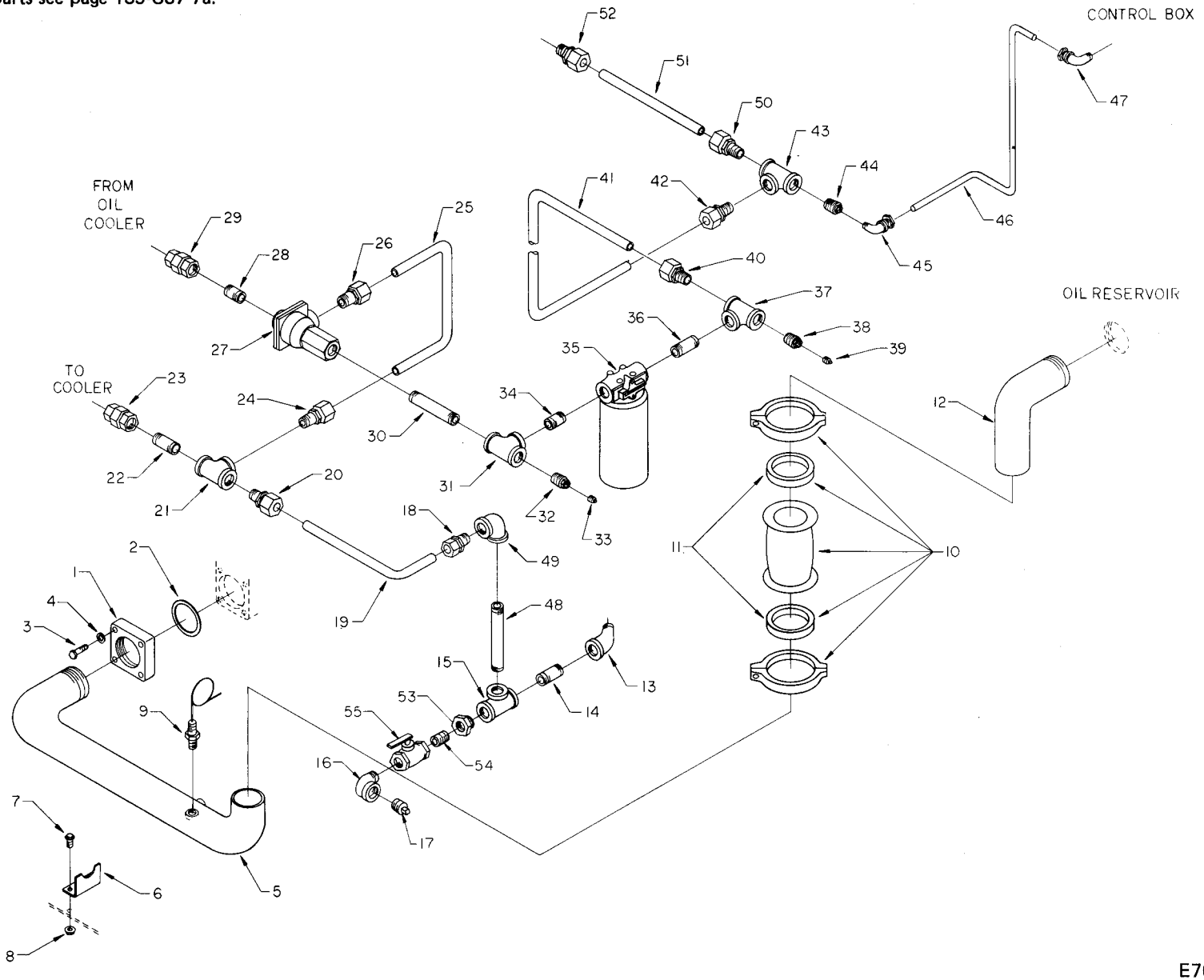
E76929

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models ECH_HC ECH_JC Using SSHMBA Bare Comp.	Models ECH_HC ECH_JC Using SSMMBA Bare Comp.
	OIL PIPING (Refer to Drawing E76929)		Part No.	Part No.
1	MANIFOLD-DISCHARGE, Compressor	1	201ECH071	201ECH071
2	O-RING, Manifold to Compressor	1	25AH14	25AH14
3	SCREW-HEX CAP, Manifold to Compressor	4	75A9	75A9
4	WASHER-LOCK, Manifold to Compressor	4	95B3	95B3
5	MANIFOLD-DISCHARGE, Manifold to Reservoir	1	202ECH071	203ECH071
6	BRACKET, Manifold Support.	1	200ECH017	200ECH017
7	SCREW-FLANGED, Bracket to Base.	2	75LM51	75LM51
8	NUT-FLANGED, Bracket to Base	2	50AW5	50AW5
9	SWITCH-TEMPERATURE, High Air Discharge.	1	21D81	21D81
10	COUPLING-FLEXIBLE, Manifold to Manifold, Includes Ref. No. 11	1	64EB57	64EB57
11	GASKET with Restraining Ring	2	2010680	2010680
12	MANIFOLD-DISCHARGE, Reservoir	1	200ECH071	200ECH071
13	ELBOW-PIPE STREET, Reservoir Oil Outlet.	1	64X6G	64X6G
14	NIPPLE-PIPE, Reservoir to Oil Cooler	1	63H2G	63H2G
15	TEE-PIPE	1	64G8G	64G8G
16	ELBOW-PIPE STREET, Oil Drain	1	64D5G	64D5G
17	PLUG-SqHd PIPE, Oil Drain	1	64AA7	64AA7
18	CONNECTOR-TUBE, Reservoir to Cooler.	1	86N95	86N95
19	TUBE, Reservoir to Cooler Oil Line	1	201ECH857	201ECH857
20	CONNECTOR-TUBE.	1	86N95	86N95
21	TEE-PIPE, Cooler Bypass	1	64G8G	64G8G
22	NIPPLE-PIPE, Reservoir to Cooler	1	63H2G	63H2G
23	UNION-STRAIGHT, Cooler Inlet.	1	64Z7	64Z7
24	CONNNETOR-TUBE.	1	86N95	86N95
25	TUBE, Bypass.	1	203ECH857	203ECH857
26	CONNECTOR-TUBE.	1	86N95	86N95
27	VALVE-THERMAL, Thermostatic Mixing	1	90AR166	90AR166
28	NIPPLE-PIPE, Cooler to Mixing Valve	1	63H1G	63H1G
29	UNION-STRAIGHT, Cooler to Mixing Valve	1	64Z7	64Z7
30	NIPPLE-PIPE, Mixing Valve Outlet.	1	63H6G	63H6G
31	TEE-PIPE, Mixing Valve to Filter.	1	64G8	64G8
32	BUSHING-PIPE.	1	64E27	64E27
33	PLUG-SqHd PIPE	1	64AA4	64AA4
34	NIPPLE-PIPE, Oil Filter Inlet	1	63H1G	63H1G
35	FILTER-OIL	1	26C14	26C14
36	NIPPLE-PIPE, Oil Filter Outlet	1	63H26G	63H26G
37	TEE-PIPE	1	64G8G	64G8G
38	BUSHING-PIPE.	1	64E27	64E27
39	PLUG-SqHd PIPE	1	64AA4	64AA4
40	CONNECTOR-TUBE.	1	86N95	86N95
41	TUBE, Oil Filter to Compressor.	1	200ECH857	200ECH857
42	CONNECTOR-TUBE.	1	86N95	86N95
43	TEE-PIPE	1	64P91	64P91
44	BUSHING-PIPE.	1	64E15	64E15
45	ELBOW-TUBE	1	86E60	86E60
46	TUBE, Control Box to Oil Line (Low Oil Pressure).	1	209ECH857	209ECH857
47	ELBOW-TUBE, Control Box Upper LH Fitting	1	86E60	86E60
48	NIPPLE-PIPE	1	63H36G	63H36G
49	ELBOW-PIPE	1	64C6	64C6
50	CONNECTOR-TUBE.	1	86N151	86N150
51	TUBE.	1	229ECH857	228ECH857
52	CONNECTOR-TUBE.	1	86N151	86N150
53	BUSHING-PIPE.	1	64E16	64E16
54	BUSHING-PIPE.	1	64E14	64E14
55	NIPPLE-PIPE	1	63F21G	63F21G
56	VALVE-BALL	1	90AR360	90AR360

OIL PIPING

For list of parts see page 139-C37-7a.

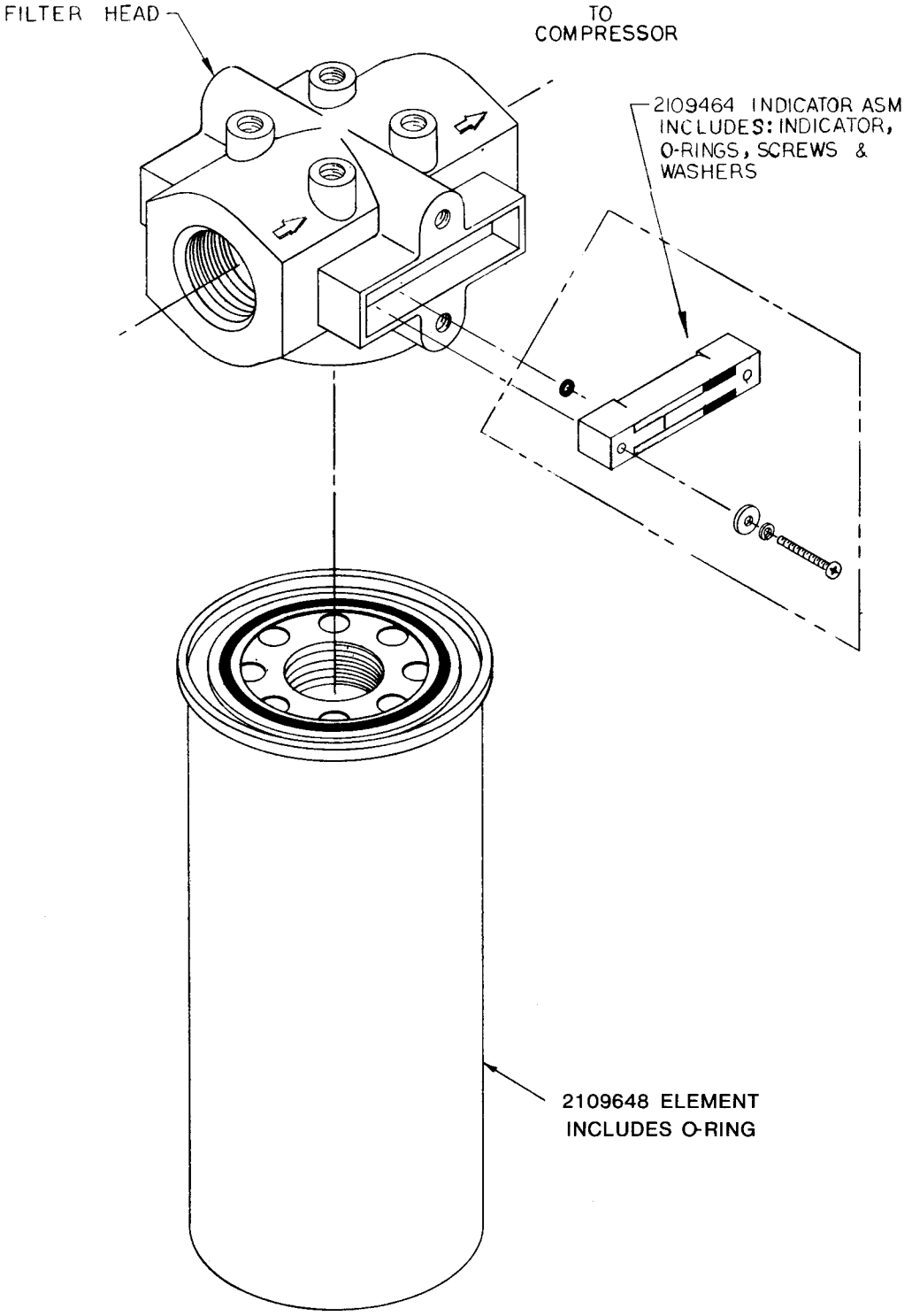


E76930

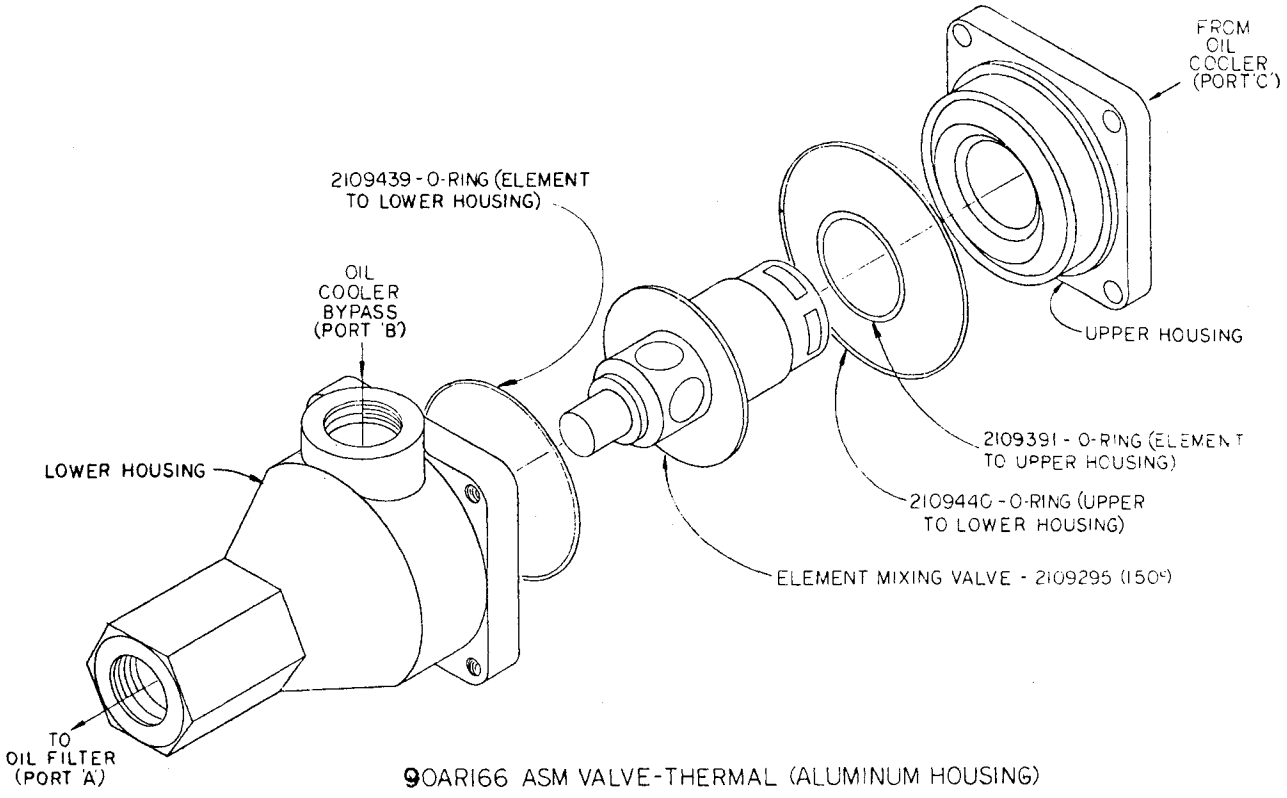
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models ECH_HD ECH_JD Using SSHMBB Bare Comp.	Models ECH_HD ECH_JD Using SSMMBA Bare Comp.
	OIL PIPING (Refer to Drawing E76930)		Part No.	Part No.
1	MANIFOLD-DISCHARGE, Compressor	1	201ECH071	201ECH071
2	O-RING, Manifold to Compressor	1	25AH14	25AH14
3	SCREW-HEX CAP, Manifold to Compressor	4	75A9	75A9
4	WASHER-LOCK, Manifold to Compressor	4	95B3	95B3
5	MANIFOLD-DISCHARGE, Manifold to Reservoir	1	202ECH071	203ECH071
6	BRACKET, Manifold Support	1	200ECH017	200ECH017
7	SCREW-FLANGED, Bracket to Base	2	75LM51	75LM51
8	NUT-FLANGED, Bracket to Base	2	50AW5	50AW5
9	SWITCH-TEMPERATURE, High Air Discharge	1	21D81	21D81
10	COUPLING-FLEXIBLE, Manifold to Manifold, Includes Ref. No. 11	1	64EB57	64EB57
11	GASKET with Restraining Ring	2	2010680	2010680
12	MANIFOLD-DISCHARGE, Reservoir	1	200ECH071	200ECH071
13	ELBOW-PIPE STREET, Reservoir Oil Outlet	1	64X6G	64X6G
14	NIPPLE-PIPE, Reservoir to Oil Cooler	1	63H2G	63H2G
15	TEE-PIPE	1	64G8G	64G8G
16	ELBOW-PIPE STREET, Oil Drain	1	64D5G	64D5G
17	PLUG-SqHd PIPE, Oil Drain	1	64AA7	64AA7
18	CONNECTOR-TUBE, Reservoir to Cooler	1	86N95	86N95
19	TUBE, Reservoir to Cooler Oil Line	1	201ECH857	201ECH857
20	CONNECTOR-TUBE	1	86N95	86N95
21	TEE-PIPE, Cooler Bypass	1	64G8G	64G8G
22	NIPPLE-PIPE, Reservoir to Cooler	1	63H2G	63H2G
23	UNION-STRAIGHT, Cooler Inlet	1	64Z7	64Z7
24	CONNECTOR-TUBE	1	86N95	86N95
25	TUBE, Bypass	1	203ECH857	203ECH857
26	CONNECTOR-TUBE	1	86N95	86N95
27	VALVE-THERMAL, Thermostatic Mixing	1	90AR166	90AR166
28	NIPPLE-PIPE, Cooler to Mixing Valve	1	63H1G	63H1G
29	UNION-STRAIGHT, Cooler to Mixing Valve	1	64Z7	64Z7
30	NIPPLE-PIPE, Mixing Valve Outlet	1	63H6G	63H6G
31	TEE-PIPE, Mixing Valve to Filter	1	64G8	64G8
32	BUSHING-PIPE	1	64E27	64E27
33	PLUG-SqHd PIPE	1	64AA4	64AA4
34	NIPPLE-PIPE, Oil Filter Inlet	1	63H1G	63H1G
35	FILTER-OIL	1	26C14	26C14
36	NIPPLE-PIPE, Oil Filter Outlet	1	63H26G	63H26G
37	TEE-PIPE	1	64G8G	64G8G
38	BUSHING-PIPE	1	64E27	64E27
39	PLUG-SqHd PIPE	1	64AA4	64AA4
40	CONNECTOR-TUBE	1	86N95	86N95
41	TUBE, Oil Filter to Compressor	1	200ECH857	200ECH857
42	CONNECTOR-TUBE	1	86N95	86N95
43	TEE-PIPE	1	64G8	64G8
44	BUSHING-PIPE	1	64E15	64E15
45	ELBOW-TUBE	1	86E60	86E60
46	TUBE, Control Box to Oil Line (Low Oil Pressure)	1	209ECH857	209ECH857
47	ELBOW-TUBE, Control Box Upper LH Fitting	1	86E60	86E60
48	NIPPLE-PIPE	1	63H36G	63H36G
49	ELBOW-PIPE	1	64C6	64C6
50	CONNECTOR-TUBE	1	86N95	86N95
51	TUBE	1	230ECH857	228ECH857
52	CONNECTOR-TUBE	1	86N95	86N95
53	BUSHING-PIPE	1	64E14	64E14
54	NIPPLE-PIPE	1	63F21G	63F21G
55	VALVE-BALL	1	90AR360	90AR360

OIL FILTER – 26C14



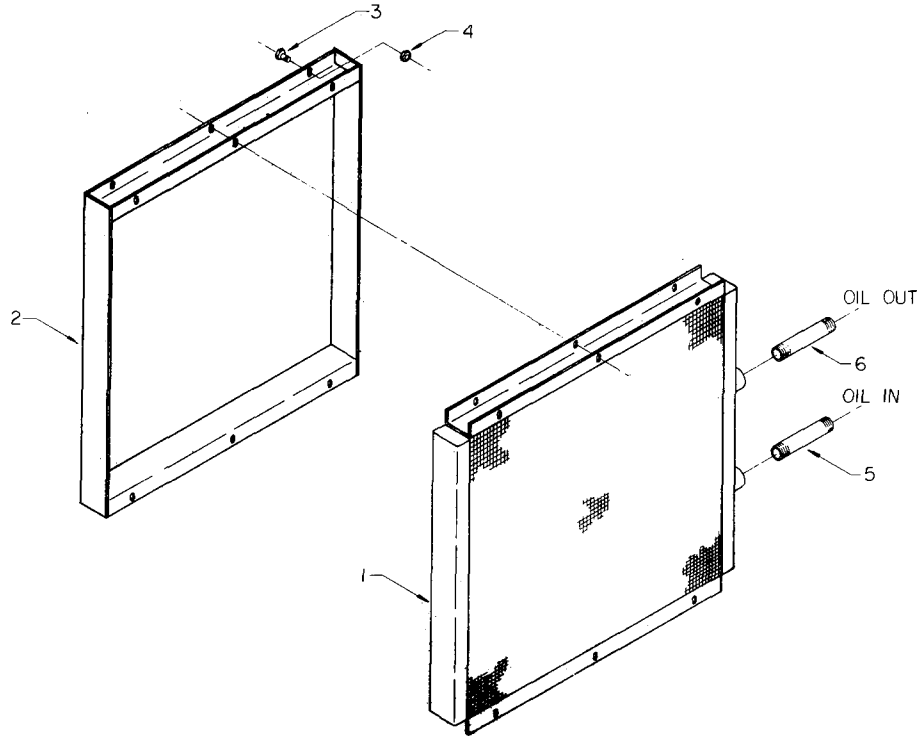
THERMAL VALVE
(Aluminum Body)



90ARI66 ASM VALVE-THERMAL (ALUMINUM HOUSING)

C76528

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

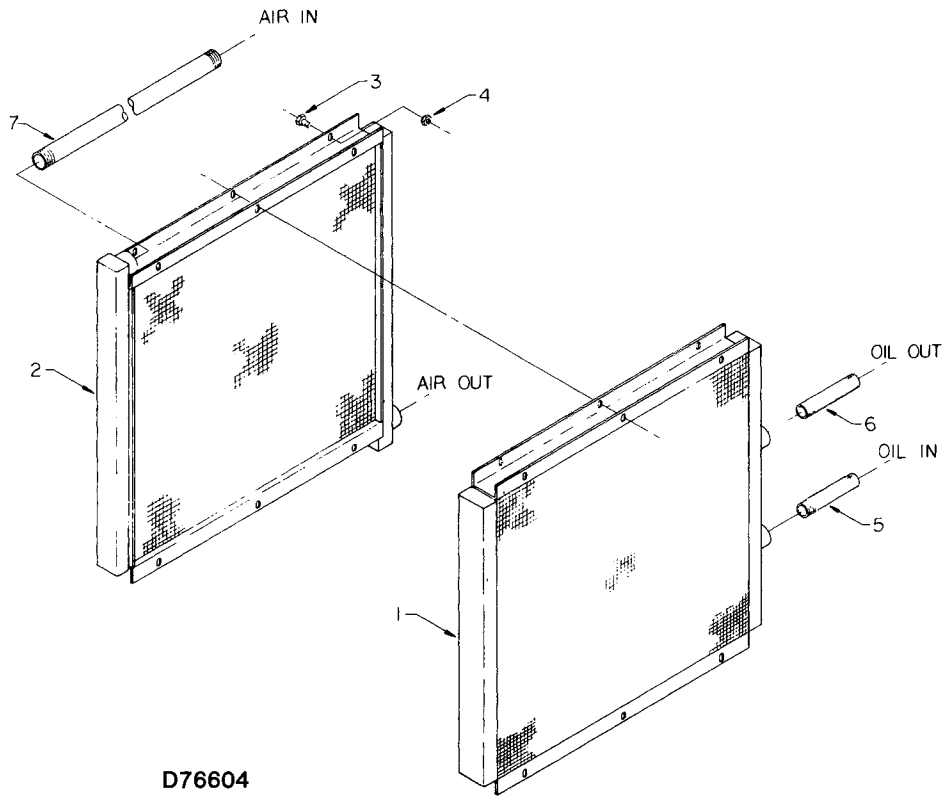


D76603

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models Column Option 11-A
	AIR-COOLED OIL COOLER (LESS AFTERCOOLER)		Part No.
1	COOLER-OIL	1	200ECH201
‡	SCREW-FLANGED, Cooler to Spacer	6	75LM51
‡	NUT-FLANGED, Cooler to Spacer	6	50AW5
2	SPACER	1	201ECH144
3	SCREW-FLANGED, Spacer to Enclosure	6	75LM51
4	NUT-FLANGED, Spacer to Enclosure	6	50AW5
5	NIPPLE-PIPE, Oil Inlet	1	63H1
6	NIPPLE-PIPE, Oil Outlet	1	63H1

‡ Not shown on illustration.

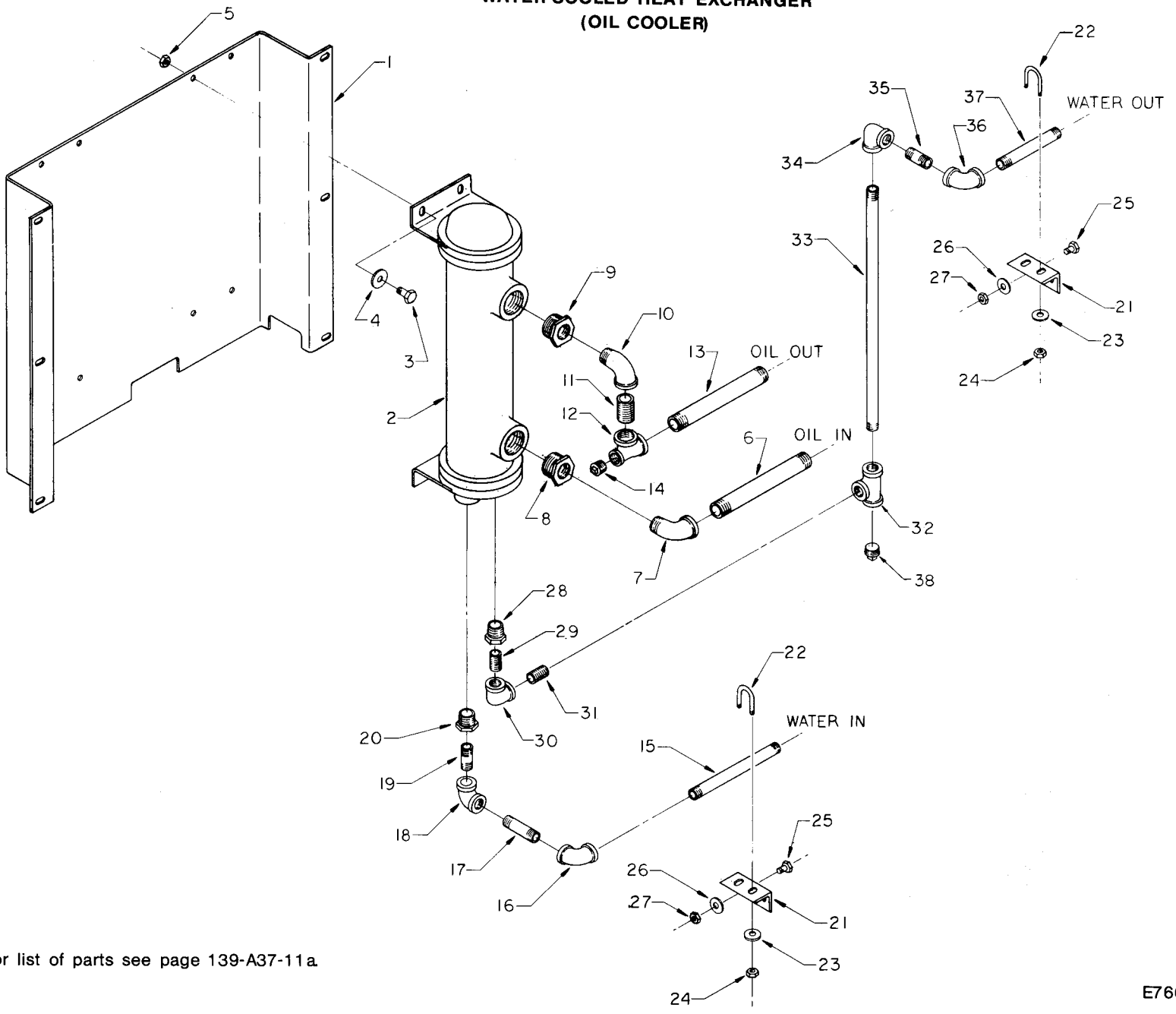
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



Ref. No.	Name of Part	Qty. Req. Per Comp.	Models Column Option 11-C
	AIR-COOLED OIL COOLER WITH AFTERCOOLER		Part No.
1	COOLER-OIL	1	200ECH201
‡	SCREW-FLANGED, Cooler to Aftercooler	6	75LM51
‡	NUT-FLANGED, Cooler to Aftercooler	6	50AW5
2	AFTERCOOLER	1	200ECH292
3	SCREW-FLANGED, Aftercooler to Enclosure	6	75LM150
4	NUT-FLANGED, Aftercooler to Enclosure	6	50AW5
5	NIPPLE-PIPE, Oil Inlet	1	63H1
6	NIPPLE-PIPE, Oil Outlet	1	63H1
7	NIPPLE-PIPE, Air Inlet	1	63J37
‡	SEPARATOR & TRAP, Moisture (Shipped Loose)	1	83C17

‡ Not shown on illustration.

WATER-COOLED HEAT EXCHANGER (OIL COOLER)



For list of parts see page 139-A37-11a

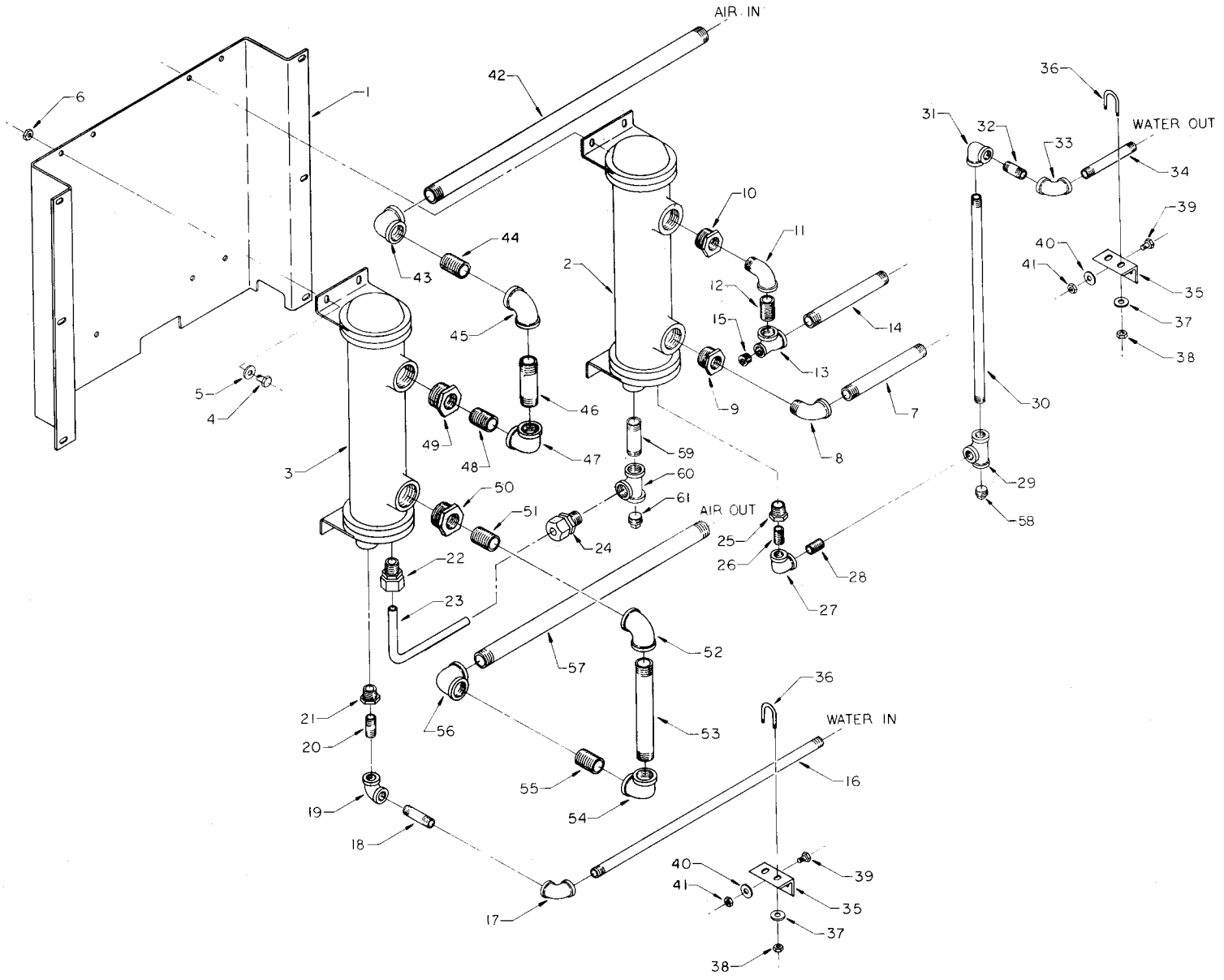
E76601

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models Column Option 11-I & 11-M 12-T & 12-U	Models Column Option 11-U & 11-W
	WATER-COOLED HEAT EXCHANGER (OIL COOLER)		Part No.	Part No.
1	BRACKET-AFTERCOOLER, Water-Cooled Coolers	1	200ECH118	200ECH118
‡	SCREW-FLANGED, Bracket to Enclosure	6	75LM51	75LM51
‡	NUT-FLANGED, Bracket to Enclosure	6	50AW5	50AW5
2	HEAT EXCHANGER, Fresh Water Service	1	202ESJ349	None
2	HEAT EXCHANGER, Salt Water Service	1	None	203ESJ349
3	SCREW-FLANGED, Exchanger to Bracket	4	75LM51	75LM51
4	WASHER-PLAIN, Exchanger to Bracket	4	95A3	95A3
5	NUT-FLANGED, Exchanger to Bracket	4	50AW5	50AW5
6	NIPPLE-PIPE, Oil Inlet	1	63N16X92	63N16X92
7	ELBOW-PIPE STREET, Oil Inlet	1	64D10	64D10
8	BUSHING-PIPE, Oil Cooler Inlet	1	64E13	64E13
9	BUSHING-PIPE, Oil Cooler Outlet	1	64E13	64E13
10	ELBOW-PIPE STREET, Oil Outlet	1	64D10	64D10
11	NIPPLE-PIPE	1	63H25	63H25
12	TEE-PIPE	1	64P91	64P91
13	NIPPLE-PIPE, Oil Outlet	1	63N16X92	63N16X92
14	PLUG-SqHd PIPE	1	64AA3	64AA3
15	NIPPLE-PIPE, Water Inlet	1	63G42	63G42
16	ELBOW-PIPE, Water Inlet	1	64C5	64C5
17	NIPPLE-PIPE	1	63G4	63G4
18	ELBOW-PIPE	1	64C5	64C5
19	NIPPLE-PIPE	1	63G2	63G2
20	BUSHING-PIPE, Water Inlet to Cooler	1	64E16	64E16
21	BRACKET, Water Pipe Support	2	202ECH017	200ECH017
22	U-BOLT, Pipe to Bracket	2	15U46	15U46
23	WASHER-PLAIN, Pipe to Bracket	4	95A2	95A2
24	NUT-FLANGED, Pipe to Bracket	4	50AW4	50AW4
25	SCREW-FLANGED, Bracket to Enclosure	4	75LM97	75LM97
26	WASHER-PLAIN, Bracket to Enclosure	4	95A2	95A2
27	NUT-FLANGED, Bracket to Enclosure	4	50AW4	50AW4
28	BUSHING-PIPE, Oil Cooler Water Outlet	1	64E16	64E16
29	NIPPLE-PIPE, Water Outlet	1	63G1	63G1
30	ELBOW-PIPE	1	64C5	64C5
31	NIPPLE-PIPE	1	63G1	63G1
32	TEE-PIPE	1	64G7	64G7
33	NIPPLE-PIPE	1	63N12X220	63N12X220
34	ELBOW-PIPE	1	64C5	64C5
35	NIPPLE-PIPE	1	63G32	63G32
36	ELBOW-PIPE	1	64C5	64C5
37	NIPPLE-PIPE, Water Outlet	1	63G37	63G37
38	PLUG-SqHd PIPE	1	64A24	64A24
‡	REGULATOR-TEMPERATURE, Column Option 11-M & 11-W Only	1	90AR326	90AR326
‡	* SHUT-OFF VALVE, Magnetic Water — Nema I — Column Option 12-T	1	90AC118	None
‡	* SHUT-OFF VALVE, Magnetic Water — Nema IV — Column Option 12-U	1	90AC103	None

‡ Not shown on illustration.
* Shipped Loose — For Fresh Water Service Only.

WATER-COOLED HEAT EXCHANGER (OIL COOLER) WITH AFTERCOOLER



For list of parts see page 139-A37-12a

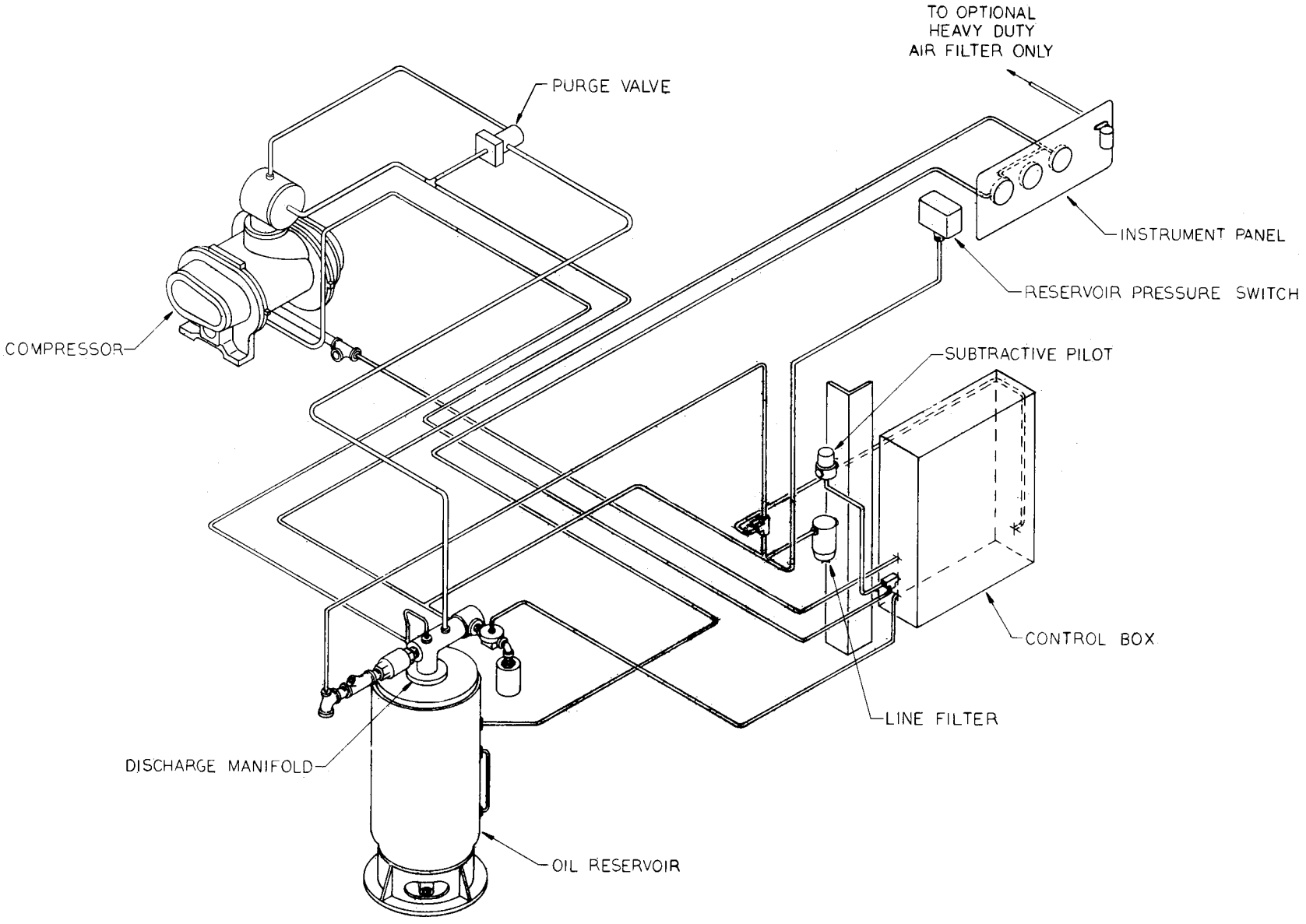
E76602

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models Column Options 11-K & 11-O 12-T & 12-U	Models Column Options 11-V & 11-X
	WATER-COOLED HEAT EXCHANGER (OIL COOLER) WITH AFTERCOOLER		Part No.	Part No.
1	BRACKET-AFTERCOOLER, Water-Cooled Coolers	1	200ECH118	200ECH118
+	SCREW-FLANGED, Bracket to Enclosure	6	75LM51	75LM51
+	NUT-FLANGED, Bracket to Enclosure	6	50AW5	50AW5
2	HEAT EXCHANGER, Fresh Water Service	1	202ESJ349	None
2	HEAT EXCHANGER, Salt Water Service	1	None	203ESJ349
3	AFTERCOOLER, Fresh Water Service	1	201ESG292	None
3	AFTERCOOLER, Salt Water Service	1	None	202ESG292
4	SCREW-FLANGED, Coolers to Bracket	8	75LM51	75LM51
5	WASHER-PLAIN, Coolers to Bracket	8	95A3	95A3
6	NUT-FLANGED, Coolers to Bracket	8	50AW5	50AW5
7	NIPPLE-PIPE, Oil Inlet	1	63N16X92	63N16X92
8	ELBOW-PIPE STREET, Oil Inlet	1	64D10	64D10
9	BUSHING-PIPE, Oil Inlet	1	64E13	64E13
10	BUSHING-PIPE, Oil Outlet	1	64E13	64E13
11	ELBOW-PIPE STREET, Oil Outlet	1	64D10	64D10
12	NIPPLE-PIPE, Oil Outlet	1	63H25	63H25
13	TEE-PIPE	1	64P91	64P91
14	NIPPLE-PIPE, Oil Outlet	1	63N16X92	63N16X92
15	PLUG-SqHd PIPE	1	64AA3	64AA3
16	NIPPLE-PIPE, Water Inlet	1	63N12X280	63N12X280
17	ELBOW-PIPE, Water Inlet	1	64C5	64C5
18	NIPPLE-PIPE	1	63G4	63G4
19	ELBOW-PIPE	1	64C5	64C5
20	NIPPLE-PIPE	1	63G2	63G2
21	BUSHING-PIPE, Aftercooler Water Inlet	1	64E16	64E16
22	CONNECTOR-TUBE, Aftercooler Water Outlet	1	86N95	86N95
23	TUBE, Cooler to Cooler	1	202ECH857	202ECH857
24	CONNECTOR-TUBE, Oil Cooler Water Inlet	1	86N95	86N95
25	BUSHING-PIPE, Oil Cooler Water Outlet	1	64E16	64E16
26	NIPPLE-PIPE, Oil Cooler Water Outlet	1	63G1	63G1
27	ELBOW-PIPE	1	64C5	64C5
28	NIPPLE-PIPE	1	63G1	63G1
29	TEE-PIPE	1	64G7	64G7
30	NIPPLE-PIPE	1	63N12X234	63N12X234
31	ELBOW-PIPE	1	64C5	64C5
32	NIPPLE-PIPE	1	63G32	63G32
33	ELBOW-PIPE	1	64C5	64C5
34	NIPPLE-PIPE, Water Outlet	1	63G37	63G37
35	BRACKET, Water Pipe Support	2	202ECH017	202ECH017
36	U-BOLT, Pipe to Bracket	2	15U46	15U46
37	WASHER-PLAIN, Pipe to Bracket	4	95A2	95A2
38	NUT-FLANGED, Pipe to Bracket	4	50AW4	50AW4
39	SCREW-FLANGED, Bracket to Enclosure	4	75LM97	75LM97
40	WASHER-PLAIN, Bracket to Enclosure	4	95A2	95A2
41	NUT-FLANGED, Bracket to Enclosure	4	50AW4	50AW4
42	NIPPLE-PIPE, Air Inlet to Aftercooler	1	63N20X340	63N20X340
43	ELBOW-PIPE	1	64C7	64C7
44	NIPPLE-PIPE	1	63J15G	63J15G
45	ELBOW-PIPE	1	64C7	64C7
46	NIPPLE-PIPE	1	63J7	63J7
47	ELBOW-PIPE	1	64C7	64C7
48	NIPPLE-PIPE	1	63J15G	63J15G
49	BUSHING-PIPE, Aftercooler Inlet	1	64E31	64E31
50	BUSHING-PIPE, Aftercooler Outlet	1	64E31	64E31
51	NIPPLE-PIPE	1	63AA13	63AA13
52	ELBOW-PIPE	1	64C7	64C7
53	NIPPLE-PIPE	1	63J10	63J10
54	ELBOW-PIPE	1	64C7	64C7
55	NIPPLE-PIPE	1	63AA13	63AA13
56	ELBOW-PIPE	1	64C7	64C7
57	NIPPLE-PIPE	1	63N20X280	63N20X280
58	PLUG-SqHd PIPE	1	64A24	64A24
59	NIPPLE-PIPE	1	63H28	63H28
60	TEE-PIPE	1	64G8	64G8
61	PLUG-SqHd PIPE	1	64A25	64A25
+	REGULATOR-TEMPERATURE (Column Option 11-O & 11-X Only)	1	90AR326	90AR326
+	* SHUT-OFF VALVE, Magnetic Water Nema I (Column Option 12-T)	1	90AC118	None
+	* SHUT-OFF VALVE, Magnetic Water Nema IV (Column Option 12-U)	1	90AC103	None
+	SEPARATOR & TRAP, Moisture (Shipped Loose)	1	83C17	83C17

\+ Not shown on illustration.
* Shipped loose — for fresh water service only.

CONTROL SCHEMATIC

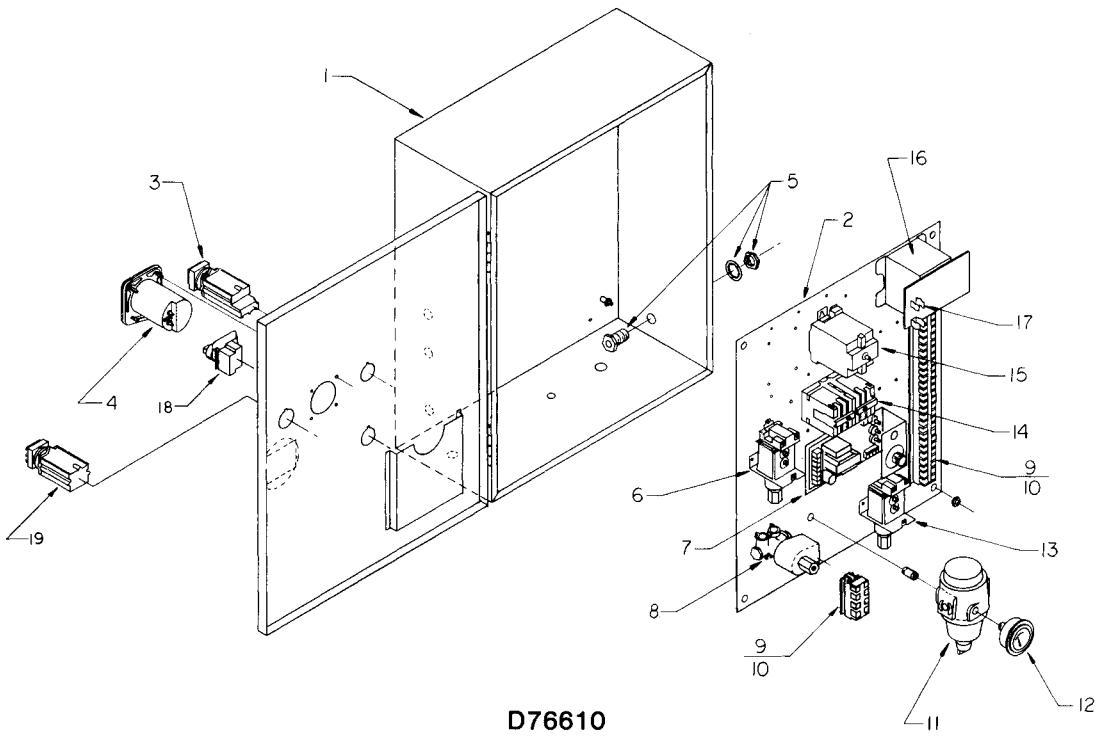


E76607

139-A37-13

Revised November, 1983

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



D76610

Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models
	CONTROL		Part No.
1	BOX-CONTROL	1	See Page 13b
‡	SCREW-HEX CAP, Control Box to Supports	4	75A26
‡	WASHER-PLAIN, Control Box to Supports	8	95A1
‡	WASHER-LOCK, Control Box to Supports	4	95B1
‡	NUT-HEX, Control Box to Supports	4	50B1
2	PANEL-ELECTRICAL	1	See Page 13b
3	SWITCH-ON/OFF	1	See Page 13b
4	HOURMETER (50 Hz)	1	2009370
4	HOURMETER (60 Hz)	1	2009369
5	COUPLING, Bulkhead	5	86A168
6	SWITCH, Oil Pressure	1	88A301
7	SWITCH, Air Temperature	1	21D80
8	VALVE-SOLENOID	1	91B34
9	BLOCK-TERMINAL	35	24CA925
10	BLOCK-END	3	24CA924
11	REGULATOR-PRESSURE	1	88H26
12	GAUGE-PRESSURE	1	27P104
13	SWITCH, Air Pressure	1	2009006
14	RELAY, Timing	1	24CA285
15	RELAY	1	24CA771
16	TRANSFORMER	1	See Page 13b
17	FUSETRON	1	See Page 13b
18	SWITCH — 2 Position Selector	1	24CA782
19	LIGHT, Pilot — Dual	1	24CA552

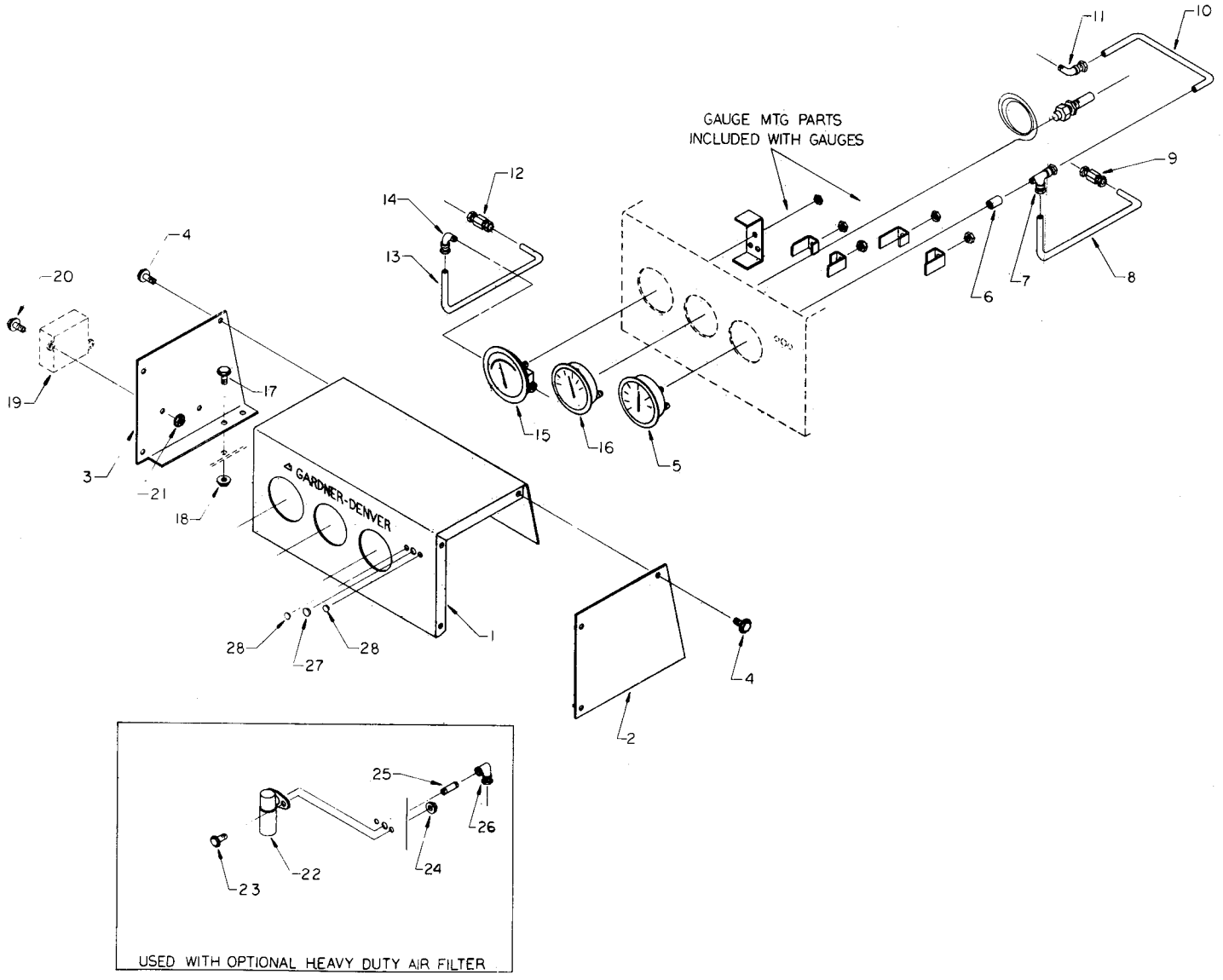
‡ Not shown on illustration.

CONTROL ITEMS
(Selective)

Part Name & Description	Constant Speed Low Demand Mode		Automatic Start-Timed Stop	
	Nema 1	Nema 4	Nema 1	Nema 4
BOX-CONTROL	200ESO179	201ESO179	203EAQ179	204EAQ179
PANEL, Electrical	207ESO216	208ESO216	207ESO216	208ESO216
BOOT, Transparent (PB)	- - - - -	24CA281	- - - - -	24CA281
O-RING, Bulkhead (4)	- - - - -	24A383	- - - - -	24A383
GASKET, Hourmeter	- - - - -	201ESK715	- - - - -	201ESK715
SEAL-PLUG (2)	- - - - -	24A509	- - - - -	24A509
SWITCH, Start/Stop-Reset (Momentary)	24CA1793	24CA1793	- - - - -	- - - - -
SWITCH, Off/On (Maintained) *	- - - - -	- - - - -	24CA1817	24CA1817
LAMP, Indicator	24CA40	24CA40	24CA40	24CA40
TIMER	- - - - -	- - - - -	24A482	24A482
RELAY	24CA541	24CA541	24CA541	24CA541
BOX-CONTROL, Timer	- - - - -	- - - - -	- - - - -	200ESK179
GASKET, Control Box	- - - - -	- - - - -	- - - - -	202ESK715
COVER, Timer	- - - - -	- - - - -	- - - - -	202ESK225
GASKET, Timer Cover	- - - - -	- - - - -	- - - - -	203ESK715
TRANSFORMER, 50 Hz (380/400/415V) 250VA	24CA1460	24CA1460	24CA1460	24CA1460
TRANSFORMER, 60 Hz (208/277/380V) 250VA	24CA160	24CA160	24CA160	24CA160
TRANSFORMER, 60 Hz (230/460/575V) 250VA	24CA159	24CA159	24CA159	24CA159
FUSETRON	24CA1026	24CA1026	24CA1026	24CA1026

* 24CA1817 Switch is "Maintained" ON and "Momentary" Reset

INSTRUMENT PANEL



For list of parts see page 139-A37-14a.

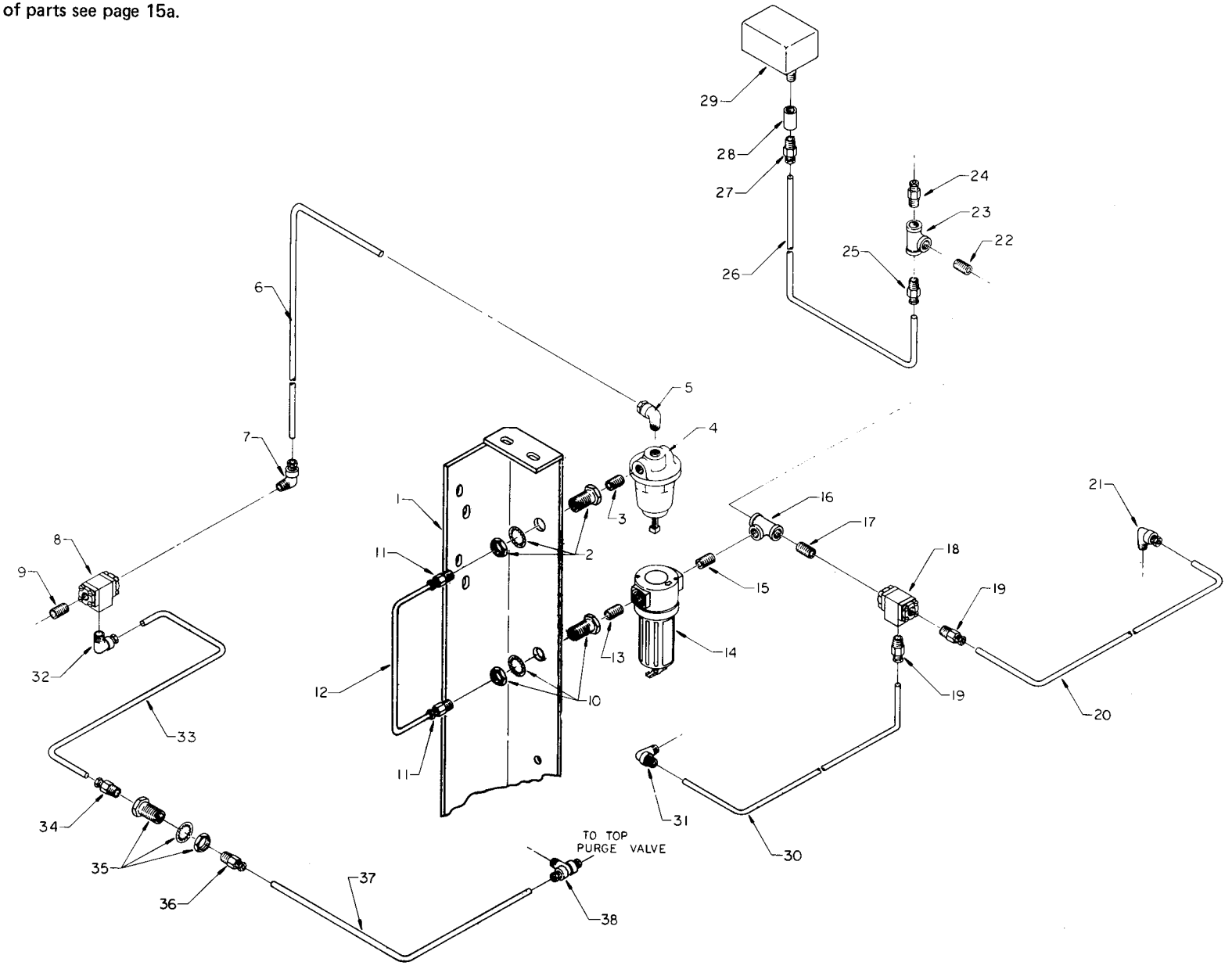
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models *
	INSTRUMENT PANEL		Part No.
1	PANEL-INSTRUMENT	1	200ECH386
2	BRACKET-PANEL	1	200ECH372
3	BRACKET-PANEL	1	201ECH372
4	SCREW-FLANGED, Bracket to Panel	6	75LM51
5	GAUGE, Air Pressure	1	2009562
6	COUPLING-PIPE, Air Pressure Gauge	1	64BK2
7	TEE-TUBE, Air Pressure Gauge	1	2009284
8	TUBE, Air Pressure Gauge	1	204ECH857
9	UNION-TUBE	1	86E48
10	TUBE, Air Pressure Gauge to Oil Separator Differential Pressure Gauge	1	207ECH857
11	ELBOW-TUBE, Differential Pressure Gauge	1	86E59
12	UNION-TUBE, Differential Pressure Gauge	1	86E174
13	TUBE, Oil Separator Differential Pressure Gauge	1	204ECH857
14	ELBOW-TUBE, Differential Pressure Gauge	1	86E59
15	GAUGE, Oil Separation Differential Pressure	1	27P11
16	THERMOMETER, Compressor Discharge Temperature	1	93F1
17	SCREW-FLANGED, Panel to Control Supports	4	75LM51
18	NUT-FLANGED, Panel to Control Supports	4	50AW5
19	SWITCH-PRESSURE, Reservoir	1	See Page 15a
20	SCREW-FLANGED, Pressure Switch to Bracket	2	75LM48
21	NUT-FLANGED, Pressure Switch to Bracket	2	50AW3
	NOTE: The following parts used with OPTIONAL Heavy Duty Air Filter:		
22	INDICATOR-FILTER, Heavy Duty Air Filter	1	92B7
23	SCREW-FLANGED, Indicator to Panel	2	75LM48
24	NUT-FLANGED, Indicator to Panel	2	50AW3
25	NIPPLE-PIPE, Indicator	1	63C4
26	ELBOW-TUBE	1	86E78
27	PLUG-SNAP IN, Instrument Panel	1	2009882
28	PLUG-SNAP IN, Instrument Panel	2	24CA798

* All ECH Models except as noted.

CONTROL LINES

For list of parts see page 15a.

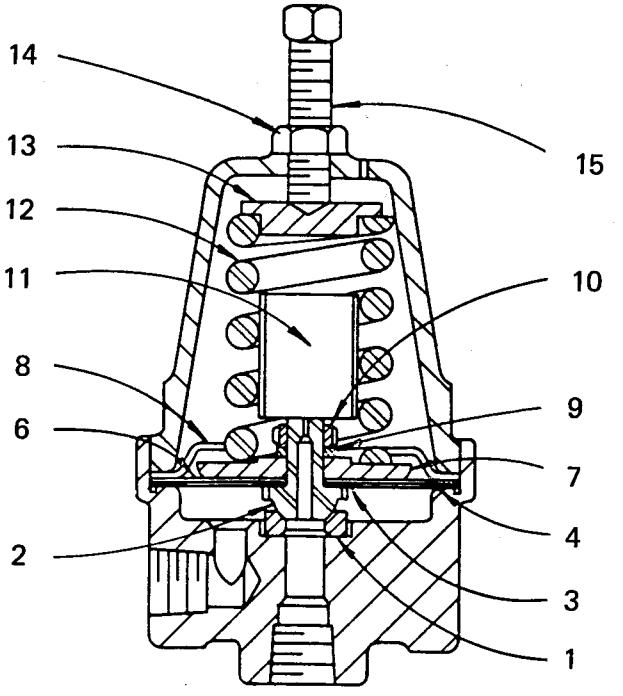


E76597

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models
	CONTROL LINES		Part No.
1	SUPPORT, Control	2	200ESO165
2	COUPLING-PIPE, Bulkhead	1	64EB368
3	NIPPLE-PIPE, Subtractive Pilot	1	63D1G
4	VALVE-SUBTRACTIVE PILOT	1	2009398
5	ELBOW-TUBE, Subractive Pilot	1	86E60
6	TUBE, Subtractive Pilot to Control Box	1	205ECH857
7	ELBOW-TUBE	1	86E60
8	VALVE, Shuttle	1	90AR107
9	NIPPLE-PIPE, Valve to Control Box Middle Bulkhead Fitting	1	63D1G
10	COUPLING-PIPE, Bulkhead	1	64EB368
11	CONNECTOR-TUBE, Filter to Pilot	2	86E4
12	TUBE, Filter to Pilot	1	206ECH857
13	NIPPLE-PIPE, Line Filter	1	63D1G
14	FILTER-LINE	1	5L110
15	NIPPLE-PIPE	1	63D1G
16	TEE-PIPE	1	64G3G
17	NIPPLE-PIPE, Shuttle Valve	1	63D1G
18	VALVE, Shuttle	1	90AR107
19	CONNECTOR-TUBE	1	86E4
20	TUBE, Discharge Line to Shuttle Valve	1	210ECH857
21	ELBOW-TUBE, Discharge Line to Shuttle Valve	1	86E60
22	NIPPLE-PIPE, Filter to Pressure Switch	1	63D1G
23	TEE-PIPE	1	64G3G
24	CONNECTOR-TUBE, Discharge Manifold Tee	1	86E5
25	CONNECTOR-TUBE	1	86E4
26	TUBE, Reservoir Pressure Switch	1	219ECH857
27	CONNECTOR-TUBE	1	86E4
28	COUPLING-PIPE	1	64BK2
29	SWITCH-PRESSURE, Reservoir	1	88H34
30	TUBE, Control Box to Shuttle Valve	1	216ECH857
31	ELBOW-TUBE, RH Side Control Box	1	86E60
32	ELBOW-TUBE	1	86E60
33	TUBE, Shuttle Valve to Bulkhead Fitting	1	215ECH857
34	CONNECTOR-TUBE	1	86E4
35	COUPLING-PIPE, Bulkhead	1	64EB368
36	CONNECTOR-TUBE	1	86E4
37	TUBE, Bulkhead Fitting to Inlet Valve	1	211ECH857
38	TEE-TUBE, Inlet Valve (Top of Purge Valve)	1	86E119

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

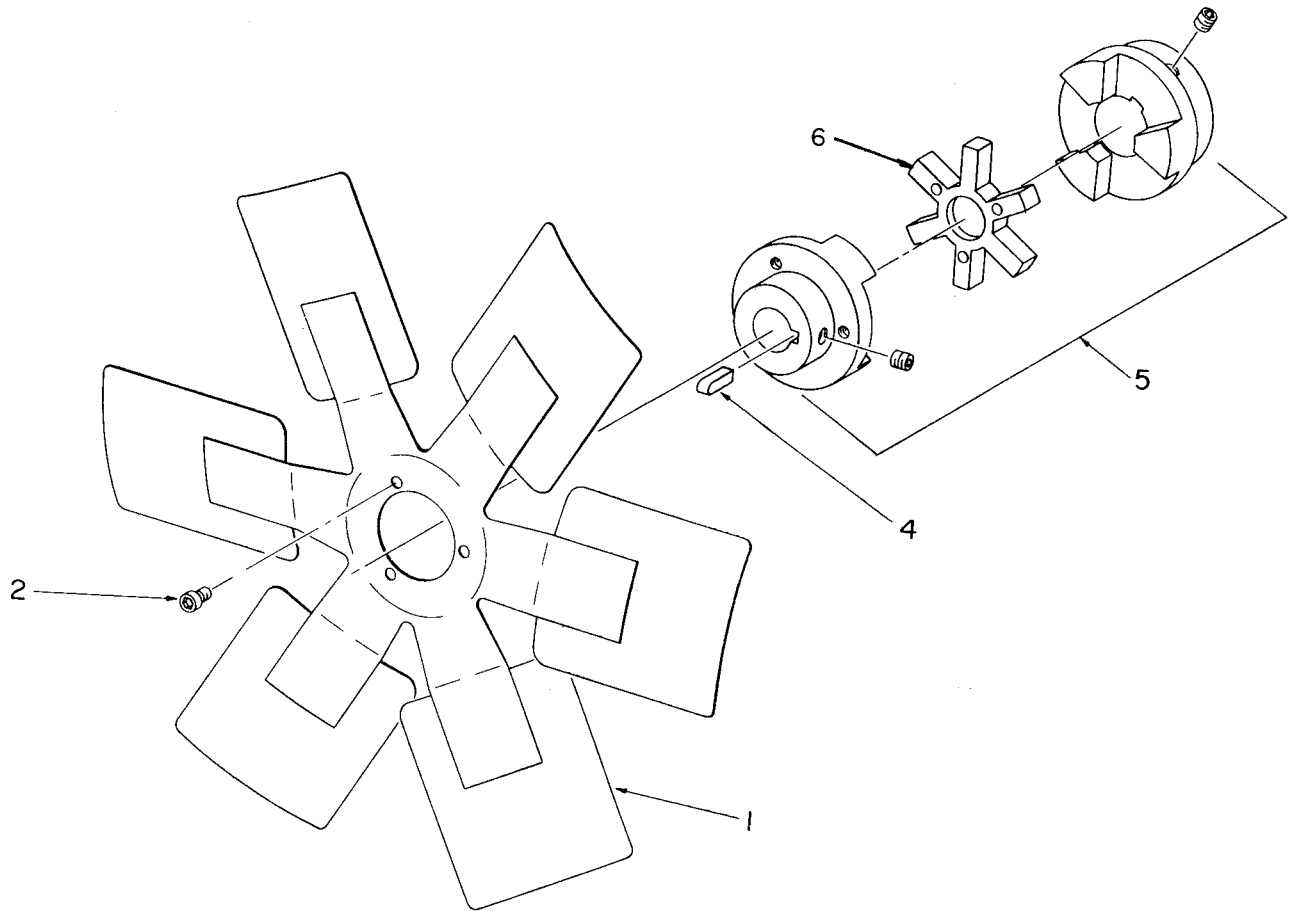


B74480X

Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models
	SUBTRACTIVE PILOT VALVE		Part No.
	VALVE-SUBTRACTIVE PILOT, Incl. Ref. No. 1 thru 15.		2009398
1	RING-SEAT.	1	2008021
2	DISC-SEAT	1	2010080
3	GASKET-DURABLA.	1	2008019
4	GASKET-DURABLA.	1	2008017
6	DIAPHRAGM.	5	2008018
7	PLATE-PRESSURE.	1	2008015
8	STOP-DIAPHRAGM	1	2008016
9	WASHER-LOCK.	1	95B1
10	NUT-PRESSURE PLATE.	1	2008888
11	DAMPER.	1	2008711
12	SPRING-PRESSURE	1	2008014
13	BUTTON-SPRING.	1	2008891
14	LOCKNUT.	1	50Y2
15	SCREW-PRESSURE	1	2008952

NOTE: It is necessary to replace some parts in groups to insure satisfactory repair. When replacing diaphragm, also replace both diaphragm and seat gaskets. When replacing seat disc or seat ring, replace also the mating seat ring or disc and the seat disc gasket.

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



D76443X

Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models
	COUPLING & FAN GROUP		Part No.
1	FAN	1	200ECH701
2	SCREW-SoHd CAP, Fan to Coupling	3	75P6N
4	KEY-SQUARE, Coupling to Compressor	1	35L24
5	COUPLING-FLEXIBLE, Compressor to Motor, Incl. Ref. No. 6	1	200ECH064
6	SPIDER, Coupling	1	2010219

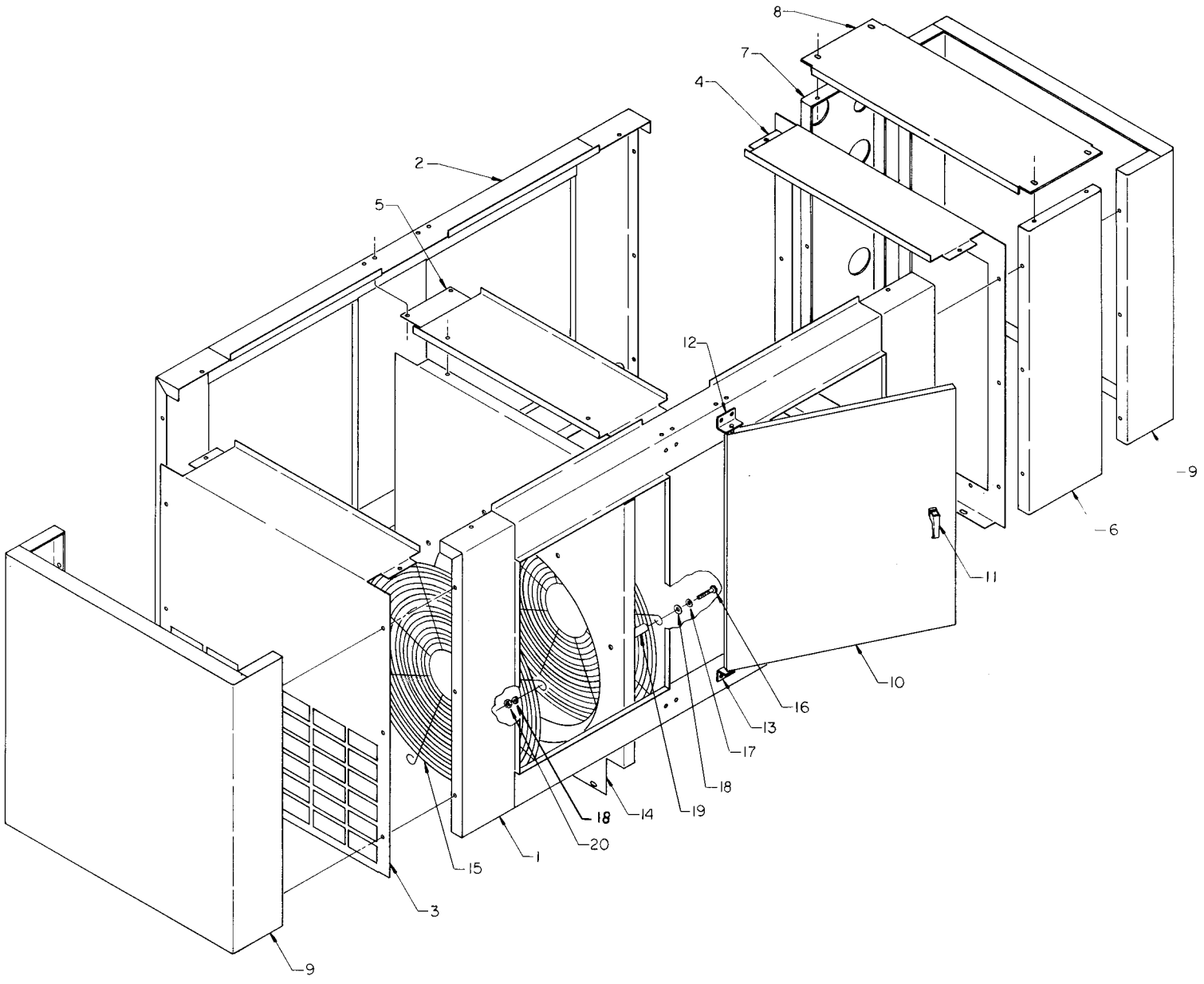
MOTOR STARTER GROUP

		NEMA I				NEMA IV			
		200V	230V	460V	575V	200V	230V	460V	575V
Column Option Number		9-A	9-B	9-C	9-D	9-E	9-F	9-G	9-H
40 HP	STARTER	24CA1825	24CA1738	24CA1737	24CA1824	24CA1829	24CA1741	24CA1740	24CA1828
	WIRING HARNESS (Motor to Starter)	ECH75573	ECH75573	ECH75572	ECH75572	ECH75753	ECH75573	ECH75600	ECH75600
50 HP	STARTER	24CA1827	24CA1738	24CA1737	24CA1824	24CA1831	24CA1741	24CA1740	24CA1828
	WIRING HARNESS (Motor to Starter)	ECH75574	ECH75574	ECH75572	ECH75572	ECH75574	ECH75574	ECH75600	ECH75600

MOTOR & MOUNTING GROUP

		OPEN DRIP-PROOF (60 Hz) (ODP)				TOTALLY ENCLOSED FAN-COOLED (60 Hz) (TEFC)			
		200V	230V	460V	575V	200V	230V	460V	575V
Column Option Number		13-A	13-B	13-C	13-D	13-M	13-N	13-O	13-P
40 HP	MOTOR	24AW12	24AW28	24AW28	24AW47	24CA1378	24CA1387	24CA1387	24CA1417
	VOLTAGE MARKER	69F1	69F2	69F3	69F28	69F1	69F2	69F3	69F28
	OVERLOAD HEATER (Three Required)	24CA1789	24CA972	24CA965	24CA963	24CA1789	24CA972	24CA965	24CA963
50 HP	MOTOR	24AW13	24AW29	24AW29	24AW48	24CA1379	24CA1388	24CA1388	24CA1418
	VOLTAGE MARKER	69F1	69F2	69F3	69F28	69F1	69F2	69F3	69F28
	OVERLOAD HEATER (Three Required)	24CA1781	24CA1790	24CA967	24CA965	24CA1781	24CA1790	24CA967	24CA965

STANDARD ENCLOSURE GROUP
(B/M No. ECH75545)



For list of parts see page 139-A37-19a

E76605

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

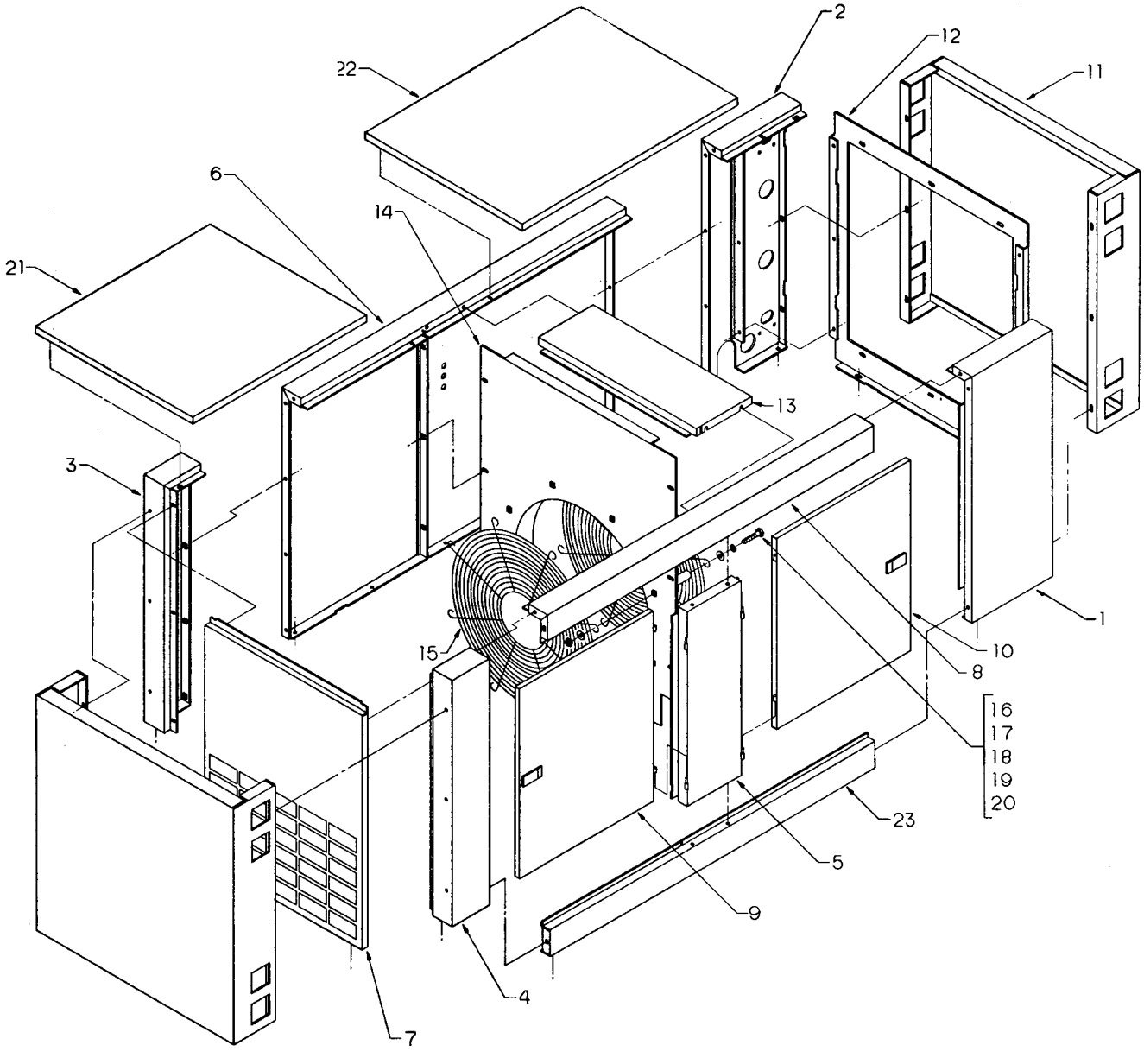
Ref. No.	Name of Part	Qty. Req. Per Comp.	Models Column Option 10-A & 10-B
	STANDARD ENCLOSURE GROUP (B/M No. ECH75545)		Part No.
1	FRAME, Side	1	201ECH314
‡	SCREW-FLANGED, Frame to Base	3	75LM51
‡	NUT-FLANGED, Frame to Base	3	50AW5
2	FRAME, Reservoir Side	1	204ECH314
‡	SCREW-FLANGED, Frame to Base	3	75LM51
‡	NUT-FLANGED, Frame to Base	3	50AW5
3	FRAME, Air Inlet End	1	202ECH314
‡	SCREW-FLANGED, Frame to Base & Side Frames	10	75LM51
‡	NUT-FLANGED, Frame to Base & Side Frames	10	50AW5
4	FRAME, Cooler End	1	203ECH314
‡	SCREW-FLANGED, Frame to Base & Side Frames	4	75LM51
‡	NUT-FLANGED, Frame to Base & Side Frames	4	50AW5
5	FRAME, Top	1	200ECH314
‡	SCREW-FLANGED, Frame to Sides & Shroud	6	75LM51
‡	NUT-FLANGED, Frame to Sides & Shroud	6	50AW5
6	COVER, RH Side Coolers	1	202ECH225
‡	SCREW-FLANGED, Cover to Base & Side Frame	5	75LM51
‡	NUT-FLANGED, Cover to Base & Side Frame	5	50AW5
7	COVER, LH Side Coolers	1	200ECH225
‡	SCREW-FLANGED, Cover to Base & Side Frame	5	75LM51
‡	NUT-FLANGED, Cover to Base	2	50AW5
8	COVER, Top Coolers	1	201ECH225
‡	SCREW-FLANGED, Top Cover to Side Covers	4	75LM51
9	BAFFLE, Air Inlet & Cover End	2	200ECH840
‡	SCREW-FLANGED, Baffle to Sides	6	75LM51
‡	NUT-FLANGED, Baffle to Sides	6	50AW5
‡	SCREW-HEX CAP, Cooler End Baffle to Sides	6	75A188
‡	WASHER-PLAIN, Cooler End Baffle to Sides	6	95A3
‡	WASHER-LOCK, Cooler End Baffle to Sides	6	95B3
10	DOOR	6	200ECH334
‡	GASKET, Door	102 Inches	32E12
‡	GASKET, Door	102 Inches	32E12
‡	GASKET, Door	102 Inches	32E12
‡	GASKET, Door	102 Inches	32E12
‡	GASKET, Door	102 Inches	32E12
‡	GASKET, Door	102 Inches	32E12
11	LATCH-PAWL, Door	6	31D24
12	HINGE, Top	8	200ECH740
13	HINGE, Bottom	4	201ECH740
‡	SCREW-FLANGED, Hinges to Frame	24	75LM51
‡	NUT-FLANGED, Hinges to Frame	24	50AW5
14	SHROUD	1	200ECH647
‡	SCREW-FLANGED, Shroud to Base & Enclosure	5	75LM51
‡	NUT-FLANGED, Shroud to Base & Enclosure	5	50AW5
15	GUARD-FAN	2	200ECH393
‡	SCREW-HEX CAP, Fan Guard To Fan Guard	8	75A10
‡	WASHER-LOCK, Fan Guard To Fan Guard Screw	8	95B3
‡	WASHER-PLAIN, Fan Guard To Fan Guard Screw	16	95A3
‡	NUT-HEX, Fan Guard To Fan Guard Screw	8	50B3
16	SCREW-HEX CAP, Fan Guards To Shroud	8	75A257
17	WASHER-LOCK	8	95B3
18	WASHER-PLAIN	16	95A3
19	NIPPLE-PIPE	8	63AM6X30
20	NUT-HEX	8	50B3

‡ Not shown on illustration.

STANDARD ENCLOSURE GROUP

(B/M No. ECH78660 – Effective With S/N 800715)

E76791



For list of parts see page 139-A37-19c.

ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models Column Option 10-A & 10-B
	STANDARD ENCLOSURE GROUP (B/M No. ECH77410 — Effective with S/N 800715)		Part No.
1	POST, Outside Cooler End.	1	200ECH313
+	SCREW-FLANGED, Post to Frame & Base	3	75LM51
+	NUT-FLANGED, Post to Frame & Base	2	50AW5
2	POST.	1	201ECH313
+	SCREW-FLANGED, Post to Base.	2	75LM51
3	POST, Inside Motor End.	1	203ECH313
+	SCREW-FLANGED, Post to Base.	2	75LM51
4	POST, Outside Motor End.	1	202ECH313
+	SCREW-FLANGED, Post to Frame & Base	3	75LM51
+	NUT-FLANGED, Post to Frame & Base	2	50AW5
5	PANEL, Center Door Side.	1	200ECH216
+	SCREW-FLANGED, Panel to Frames	4	75LM51
6	PANEL, Inside	1	201ECH216
+	SCREW-FLANGED, Panel to Base & Posts	15	75LM51
+	NUT-FLANGED, Panel to Base & Posts	5	50AW5
7	PANEL, Motor End.	1	206ECH216
+	SCREW-FLANGED, Panel to Base & Posts	8	75LM51
+	NUT-FLANGED, Panel to Base & Posts	2	50AW5
8	FRAME, Top Door Side	1	206ECH314
+	SCREW-FLANGED, Frame to Posts	4	75LM51
9	DOOR, Left Hand	1	201ECH334
10	DOOR, Right Hand.	1	202ECH334
+	MOULDING-RUBBER, Doors	188"	32E2
11	BAFFLE, Air Inlet & Cooler End.	2	200ECH840
+	SCREW-FLANGED, Baffles to Ends	12	75LM51
12	FRAME, Cooler End	1	207ECH314
+	SCREW-FLANGED, Frame to Base & Posts.	8	75LM51
+	NUT-FLANGED, Frame to Base & Posts	2	50AW5
13	PANEL, Top Center	1	205ECH216
+	SCREW-FLANGED, Panel to Frames	4	75LM51
14	SHROUD, Fan	1	202ECH647
+	SCREW-FLANGED, Shroud to Base & Enclosure	9	75LM51
+	NUT-FLANGED, Shroud to Base & Enclosure	3	50AW5
15	GUARD-FAN	2	200ECH393
+	SCREW-HEX CAP, Fan Guard to Fan Guard.	8	75A10
+	WASHER-LOCK, Fan Guard to Fan Guard Screw	8	95B3
+	WASHER-PLAIN, Fan Guard to Fan Guard Screw.	16	95A3
+	NUT-HEX, Fan Guard to Fan Guard Screw.	8	50B3
16	SCREW-HEX CAP, Guard to Shroud	8	75AA223
17	WASHER-LOCK, Guard to Shroud.	8	95B3
18	WASHER-PLAIN, Guard to Shroud	16	95A3
19	NIPPLE-PIPE, Guard to Shroud.	8	63AM6X30
20	NUT-HEX, Guard to Shroud	8	50B3
21	PANEL, Top Motor End.	1	202ECH216
+	SCREW-FLANGED, Panel to Frames	4	75LM51
22	PANEL, Top Cooler End.	1	203ECH216
+	SCREW-FLANGED, Panel to Frames	4	75LM51
23	FRAME, Bottom Door Side.	1	205ECH314
+	SCREW-FLANGED, Frame to Base	5	75LM51
+	NUT-FLANGED, Frame to Base	5	50AW5

+ Not shown on illustration.

		Name of Part	Qty. Req. Per Comp.	All ECH Models
		IDENTIFICATION & INSTRUCTION GROUP		Part No.
DECAL	–	WARNING – ELECTRICAL SHOCK MAY BE FATAL 1. This compressor must be grounded, etc. 2. Disconnect the compressor unit, etc. (Located Inside Control Box Door)	1	208ESG077
DECAL	–	WARNING – 1. Electrical shock can be fatal. 2. Open main disconnect switch, etc. (Located Outside Control Box)	1	202ESG077
DECAL	–	INSTRUCTION	1	200ESO077
DECAL	–	DANGER – Do not use the air discharged from this unit for breathing, etc.	1	209SPH077
DECAL	–	USE COPPER WIRE ONLY (Located Outside Control Box)	1	214ESG077
DECAL	–	MAGNETIC CONTROL SYSTEM DATA PLATE (Located Outside Control Box Door)	1	69D38
DECAL	–	INSTALLATION (Oil Filter) (On Oil Filter Cannister)	1	201ECF077
DECAL	–	FILLED AT FACTORY WITH "GD-800"	1	200EBE077
DECAL	–	"G-D" (Square)	1	69F14
DECAL	–	RIBBON TRIM	2	203ESO077
DECAL	–	ELECTRA-SAVER® INTENSIVE INJECTION (Center On Door [1] & Ends [2])	3	202ECQ077
DECAL	–	OPERATING & MAINTENANCE	1	201ECH077
DECAL	–	DRAIN MOISTURE	1	205ESO077
PLATE-DATA	–	OIL LEVEL INDICATION (Located On Oil Reservoir At Oil Level Gauge)	1	200ESG454
PLATE-DATA	–	DANGER – FAN & CAUTION – COOLING	2	200ECH454
PLATE-NAME (Located Left Lower Front Of Frame)			1	69A138
RIVET, Plate To Base			4	2009307
TAG-INSTRUCTION, Coupling Alignment			1	200ESP304

RECOMMENDED SPARES

The following kits are separated according to service and locations. These are made available to aid the customer in stocking parts to allow on-site maintenance and/or repair. Quantitites shown are for one unit only. It is the responsibility of the Owner-Operator to apply a multiplier for multiple units, operating conditions and/or for hours of operation. Refer to Instruction Manual for recommended replacement time for critical parts. KITS NO. 1 and 2 DO NOT INCLUDE OIL SEPARATORS, ELECTRICAL OR CONTROL ITEMS — THESE MUST BE PURCHASED SEPARATELY.

Ordering Instructions

KIT NO 1. — These are suggested as the minimum quantity of parts a customer should stock. They are usually the first items which require renewal. Order quantities of this kit to suit your requirements or particular service. One kit contains three (3) oil filter elements which require changing at least every 1000 hours under normal conditions.

KIT NO. 2 — These are suggested as the minimum spares a customer should stock for continuous operation for one year. When ordering for this service, order Kits No. 1 and 2.

KITS NO. 3, 4, 5 & 6 — These are suggested as the minimum spares a customer should stock for continuous operation for one year. When ordering for this service, order Kits No. 1 and 2.

KITS NO. 3, 4, 5 & 6 — These are suggested as the minimum spares a customer should stock for continuous operation for two (2) years. These parts include those which possibly would need renewal in an overhaul. When ordering for this service, order Kits No. 1, 2, 3, 4, 5 and 6. Apply proper multiplier for each kit to get total quantity of parts for the operational time and number of units involved.

> APPLY THE PROPER MULTIPLIER BASED ON NUMBER OF UNITS AND HOURS OF OPERATION;
> Example: For four (4) units, four (4) of Kit No. 1 and only one (1) each of Kits 2 thru 6 may be sufficient.

HOURS OF OPERATION	3000	9000	18000
PART NUMBER (Complete Kit) For Units With:			
Standard Air Filter	ECF71204	ECH75592	ECH75593
Heavy-Duty Air Filter	ECF71194	- - - - -	- - - - -

Description	KIT NO. 1 Qty. Per Kit	KIT NO. 2 Qty. Per Kit	KIT NO. 3 Qty. Per Kit
KIT NO. 1 — ROUTINE MAINTENANCE			
Air Filter Element (Page 139-A37-2a)	2		
Oil Filter Element (Page 139-A37-8)	3		
KIT NO. 2 — PERIODIC MAINTENANCE			
Inlet Valve Spring (Page 139-A37-2)		1	
Inlet Valve Piston Spring (Page 139-A37-2)		1	
Inlet Valve Packing Ring (Page 139-A37-2)		2	
Valve Disc (Page 139-A37-2)		1	
KIT NO. 3 — PERIODIC OVERHAUL (Mechanical)			
Bearing, Main Rotor Inlet (Pages 139-B37-1a & 139-C37-1a)			1
Bearing, Secondary Rotor Inlet (Pages 139-B37-1a & 139-C37-1a)			1
Bearing, Main Rotor Discharge (Pages 139-B37-1a & 139-C37-1a)			1
Bearing, Secondary Rotor Discharge (Pages 139-B37-1a & 139-C37-1a)			1
Gasket & Shim Kit (Part No. ECH76365)			1

RECOMMENDED SPARES
(Continued)

HOURS OF OPERATION	18000	18000	18000
PART NO. (Complete Kit)	ECH76317	ECH76318	EAQ73721
Description	**KIT NO. 4** Qty. Per Kit	**KIT NO. 5** Qty. Per Kit	**KIT NO. 6** Qty. Per Kit
KIT NO. 4 — OIL SEPARATORS			
Oil Separator (1st Stage & 2nd Stage) (Page 139-A37-5)	1 ea.		
Tubing & Fittings (Page 139-A37-5)	1 ea.		
KIT NO. 5 — PNEUMATIC CONTROL & GAUGES			
Pressure Regulator (Set 15 Lbs.) (Page 139-A37-13a)		1	
Compressor Discharge Temperature Thermometer (Page 139-A37-14a)		1	
Shuttle Valve (1/4") (Page 139-A37-15a)		1	
Blowdown Air Control Valve (1/2") (Page 139-A37-5)		1	
Subtractive Pilot Valve (Page 139-A37-16)		1	
Gauge, Oil Separator Differential Pressure (Page 139-A37-14a)		1	
KIT NO. 6 — ELECTRICAL CONTROL			
Air Pressure Switch (Page 139-A37-13a)			1
Oil Pressure Switch (Page 139-A37-13a)			1
Temperature Switch (120 VAC) (Page 139-A37-13a)			1
Temperature Switch Probe (Page 139-A37-5)			2
Timing Relay (Set 10 Seconds Maximum) (Page 139-A37-13a)			1
Four-Way Solenoid Valve (120 VAC) (Page 139-A37-13a)			1
Reservoir Pressure Switch (Page 139-A37-15)			1

3C-6-86

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