



GARDNER-DENVER®

13-9-544
1st Edition

**ELECTRA-SAVER II®
STATIONARY
BASE-MOUNTED
COMPRESSOR**

Models

40 HP

ECHQHE, ECHSHE

50 HP

ECHQJE, ECHSJE

Parts List

13-9-544



INDUSTRIAL MACHINERY

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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.

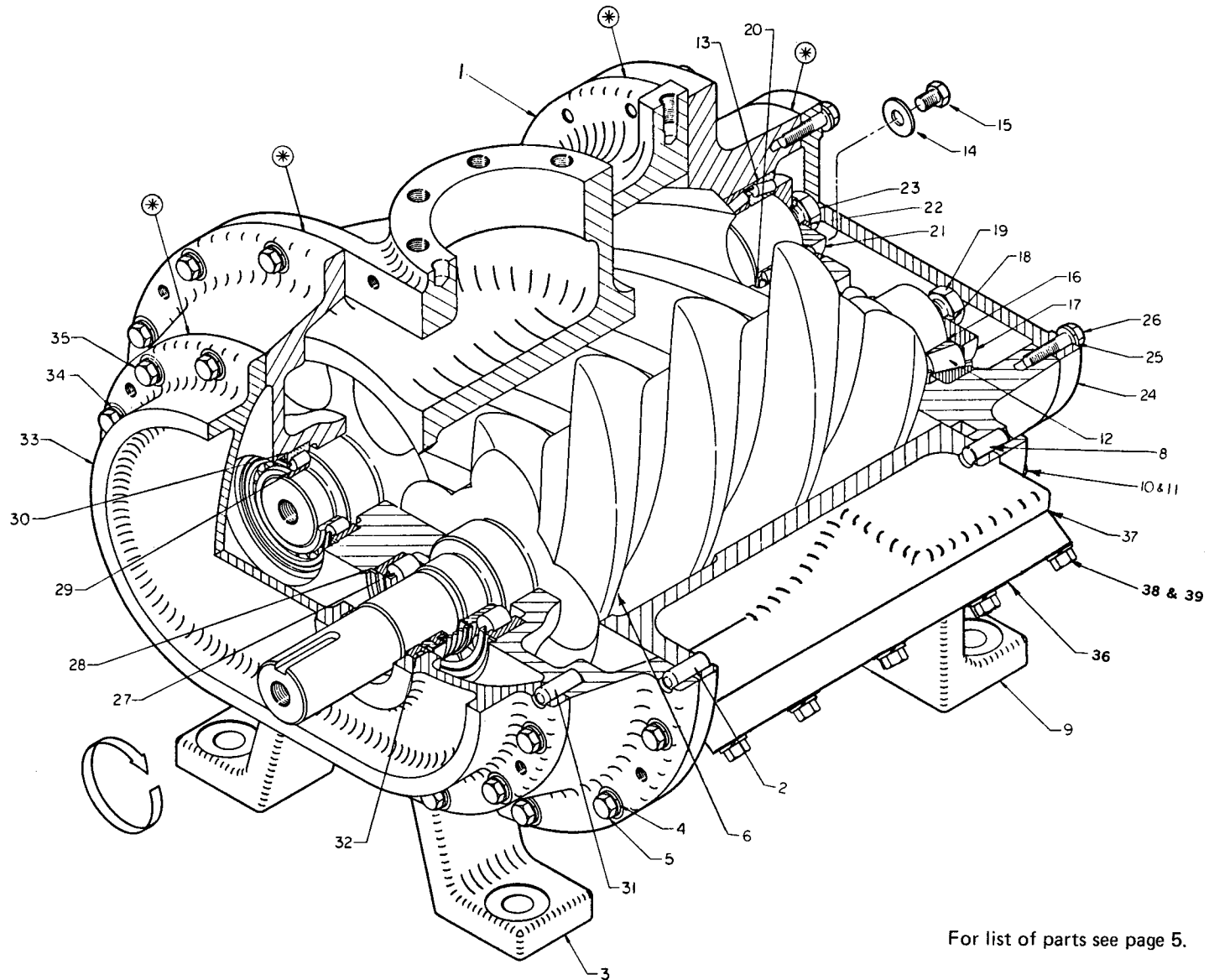
All parts returned for credit should be handled in the same manner as that for duplication or inspection.

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

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										
	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													
F 125 PSIG Service/60 Hz													
N 100 PSIG Service/50 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													
<i>(Letters vary with type of cooling cycle, voltage and Nema Class)</i>													
COLUMN 9 — CONTROL— MAIN STARTER													
A 200 Volt/Nema I													
B 230 Volt/Nema I													
C 460 Volt/Nema I													
D 575 Volt/Nema I													
E 200 Volt/Nema IV													
F 230 Volt/Nema IV													
G 460 Volt/Nema IV													
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													
E Air Cooled — Aluminum Core — With Aftercooler													
F Air Cooled — Aluminum Core — With Aftercooler (Ext. Corrosion Resistant)													
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													
B 230V — 60 Hz — ODP													
C 460V — 60 Hz — ODP													
D 575V — 60 Hz — ODP													
M 200V — 60 Hz — TEFC													
N 230V — 60 Hz — TEFC													
O 460V — 60 Hz — TEFC													
P 575V — 60 Hz — TEFC													

BARE COMPRESSOR



For list of parts see page 5.

E76920

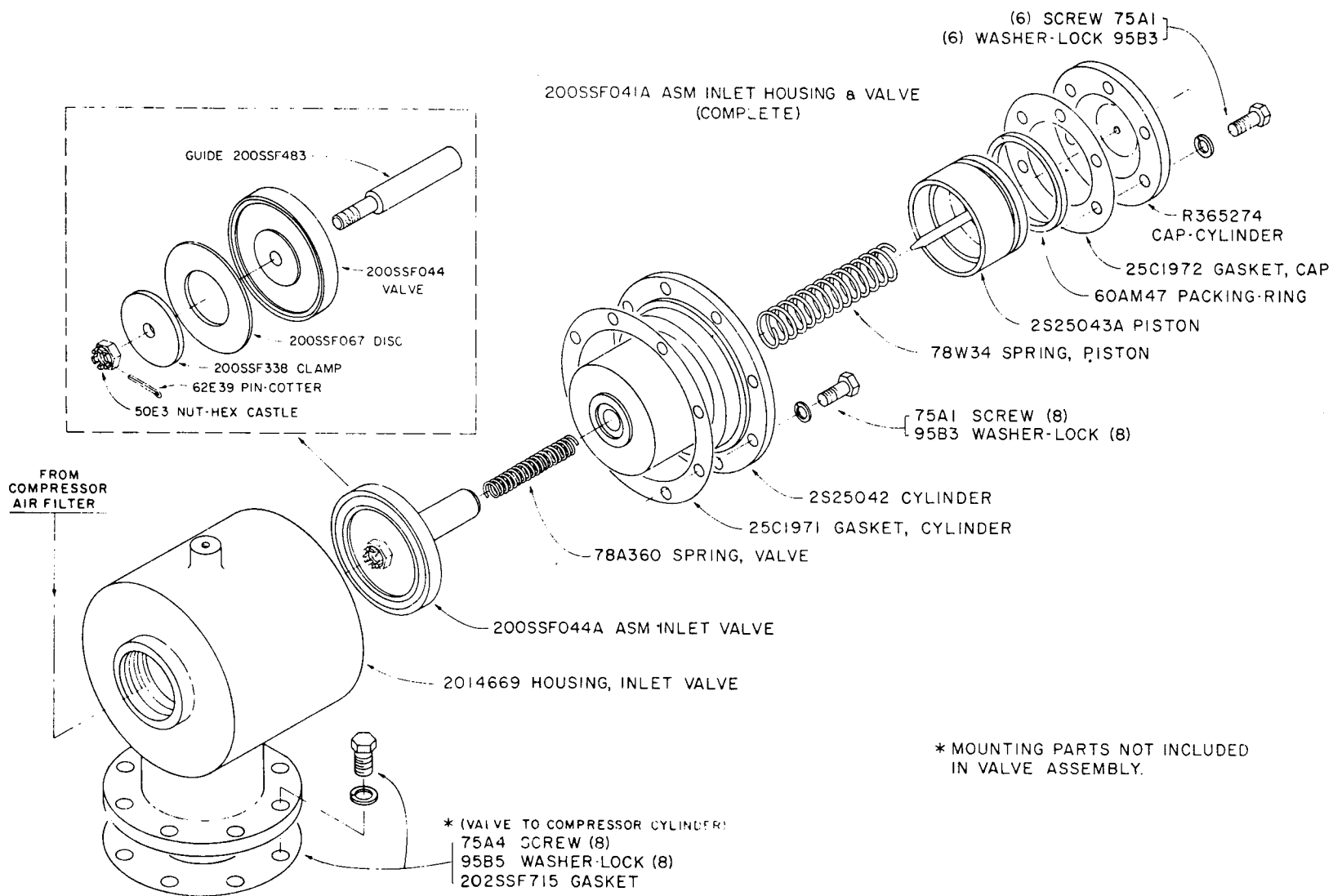
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

Ref. No.	Name of Part	Qty. Req. Per Comp.	Models ECH_HE & JE 40 HP — 7N** 50 HP — 7D** Part No.	Models ECH_HE & JE 40 HP — 7P** 50 HP — 7F** Part No.	Models ECH_HE 40 HP — 7D** Part No.	Models ECH_HE 40 HP — 7F** Part No.
	BARE COMPRESSOR	1	SSHMBB01	SSHMBB02	SSHMBB03	SSHMBB04
1	CYLINDER	1	202SSH002	202SSH002	202SSH002	202SSH002
2	PIN-DOWEL, Inlet Bearing Housing to Cylinder	2	62M83	62M83	62M83	62M83
3	HOUSING-BEARING, Inlet End	1	200SSH006	200SSH006	200SSH006	200SSH006
4	WASHER-LOCK, Inlet Bearing Housing to Cylinder	16	95B3	95B3	95B3	95B3
5	SCREW-HEX CAP, Inlet Bearing Housing to Cylinder	16	75A2	75A2	75A2	75A2
6	ROTOR KIT (Main & Secondary Pair)	1	SSH77081	SSH77082	SSH77083	SSH77084
8	PIN-DOWEL	2	62M83	62M83	62M83	62M83
9	HOUSING-BEARING, Discharge End	1	202SSH006	202SSH006	202SSH006	202SSH006
†	PLUG-HEX HEAD PIPE, To Discharge Bearing Housing	2	64T50	64T50	64T50	64T50
†	PLUG-CSK HEAD PIPE	1	64B5	64B5	64B5	64B5
10	SCREW-HEX CAP, Bearing Housing to Cylinder	9	75A9	75A9	75A9	75A9
10	SCREW-HEX CAP	6	75A2	75A2	75A2	75A2
11	WASHER-LOCK	15	95B3	95B3	95B3	95B3
12	BEARING-ROLLER, Discharge End Main Rotor	1	12BA91	12BA91	12BA91	12BA91
13	BEARING-ROLLER, Discharge End Secondary Rotor (Consists of [2] Bearings & Cup Spacer)	1	12BA90	12BA90	12BA90	12BA90
14	WASHER-PLAIN, Discharge End Secondary Rotor	2	95A3	95A3	95A3	95A3
15	SCREW-HEX CAP, Discharge End Secondary Rotor	2	75A5N	75A5N	75A5N	75A5N
16	SHIM SET, Discharge End Main Rotor Bearing	1	77H54	77H54	77H54	77H54
17	PLATE-BEARING RETAINER, Discharge End Main Rotor Bearing	1	200SSM253	200SSM253	200SSM253	200SSM253
19	SCREW-HEX CAP, Discharge End Main Rotor Bearing	1	75A29N	75A29N	75A29N	75A29N
20	SHIM SET, Discharge End Secondary Rotor	1	77H53	77H53	77H53	77H53
21	PLATE-BEARING RETAINER, Discharge End Secondary Rotor Bearing	1	200SSH253	200SSH253	200SSH253	200SSH253
23	SCREW-HEX CAP, Discharge End Secondary Rotor Bearing	1	75A29N	75A29N	75A29N	75A29N
24	PLATE-BEARING COVER, Discharge End	1	200SSH315	200SSH315	200SSH315	200SSH315
25	WASHER-LOCK	9	95B3	95B3	95B3	95B3
25	GASKET-RING	3	25F13	25F13	25F13	25F13
26	SCREW-HEX CAP	9	75A7	75A7	75A7	75A7
26	SCREW-HEX CAP	3	75A7N	75A7N	75A7N	75A7N
27	BEARING-ROLLER, Inlet End Main Rotor	1	12BA89	12BA89	12BA89	12BA89
28	RING-RETAINING, Inlet End Main Rotor	1	74D38	74D38	74D38	74D38
29	BEARING-ROLLER, Inlet End Secondary Rotor	1	12BA88	12BA88	12BA88	12BA88
30	RING-RETAINING, Inlet End Secondary Rotor	1	74D37	74D37	74D37	74D37
31	PIN-DOWEL, Seal Housing to Cylinder	2	62M83	62M83	62M83	62M83
32	SEAL-SHAFT, Main Rotor	1	60DD98	60DD98	60DD98	60DD98
33	HOUSING-SEAL, Inlet End	1	200SSH362	200SSH362	200SSH362	200SSH362
34	WASHER-LOCK, Seal Housing to Cylinder	16	95B3	95B3	95B3	95B3
35	SCREW-HEX CAP, Seal Housing to Cylinder	16	75A2	75A2	75A2	75A2
36	COVER, Cylinder	2	200SSH225	200SSH225	200SSH225	200SSH225
37	GASKET	2	201SSH715	201SSH715	201SSH715	201SSH715
†	COVER, Oil Sump	1	201SSH225	201SSH225	201SSH225	201SSH225
†	GASKET	1	200SSH715	200SSH715	200SSH715	200SSH715
38	SCREW-HEX CAP, Covers to Cylinder	28	75A7	75A7	75A7	75A7
39	WASHER-LOCK	28	95B3	95B3	95B3	95B3
†	PLUG-SqHd PIPE, Cover Drain	3	64AA6	64AA6	64AA6	64AA6
†	PLUG-SqHd PIPE	1	64A25	64A25	64A25	64A25
†	PLUG-HEX HEAD PIPE, Bottom of Cylinder	1	64T53	64T53	64T53	64T53

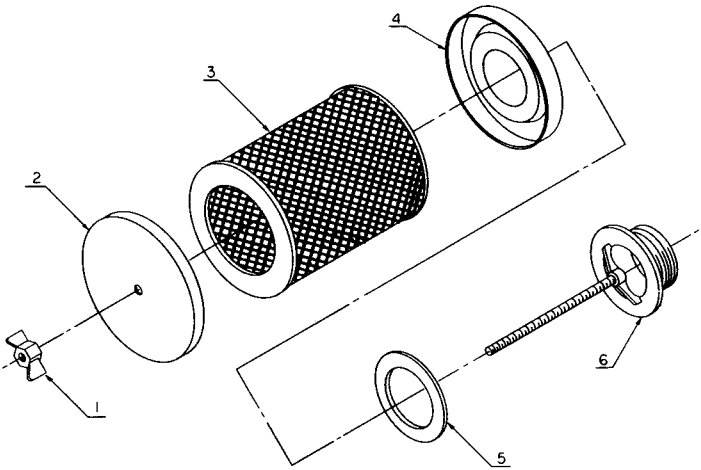
* Joints marked with asterisk sealed with Gardner-Denver® Gasket Eliminator Part No. 25BC22.
 ** See Matrix/Menu page for Column 7 designator.

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

INLET VALVE & MOUNTING GROUP



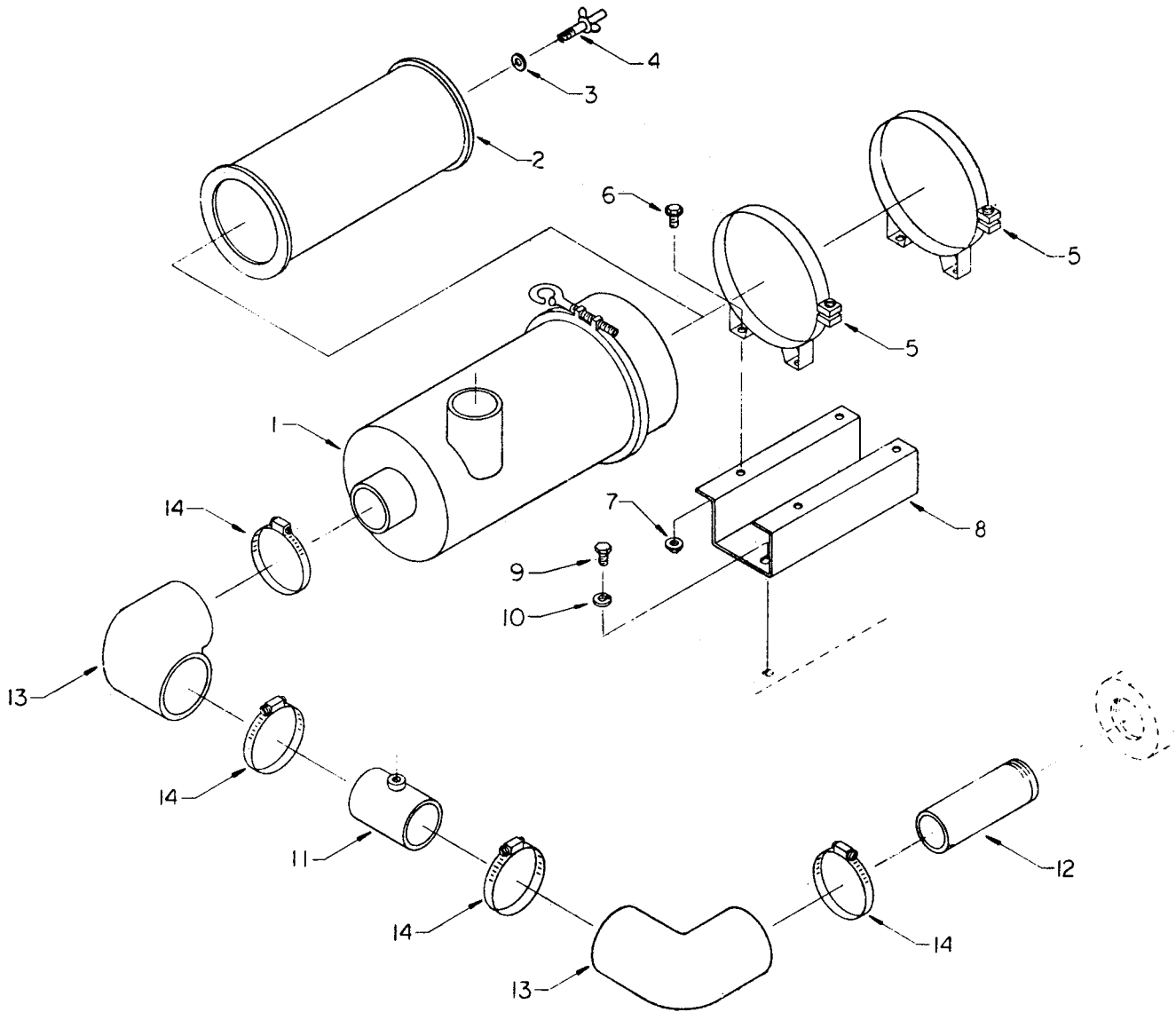
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



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	— — —

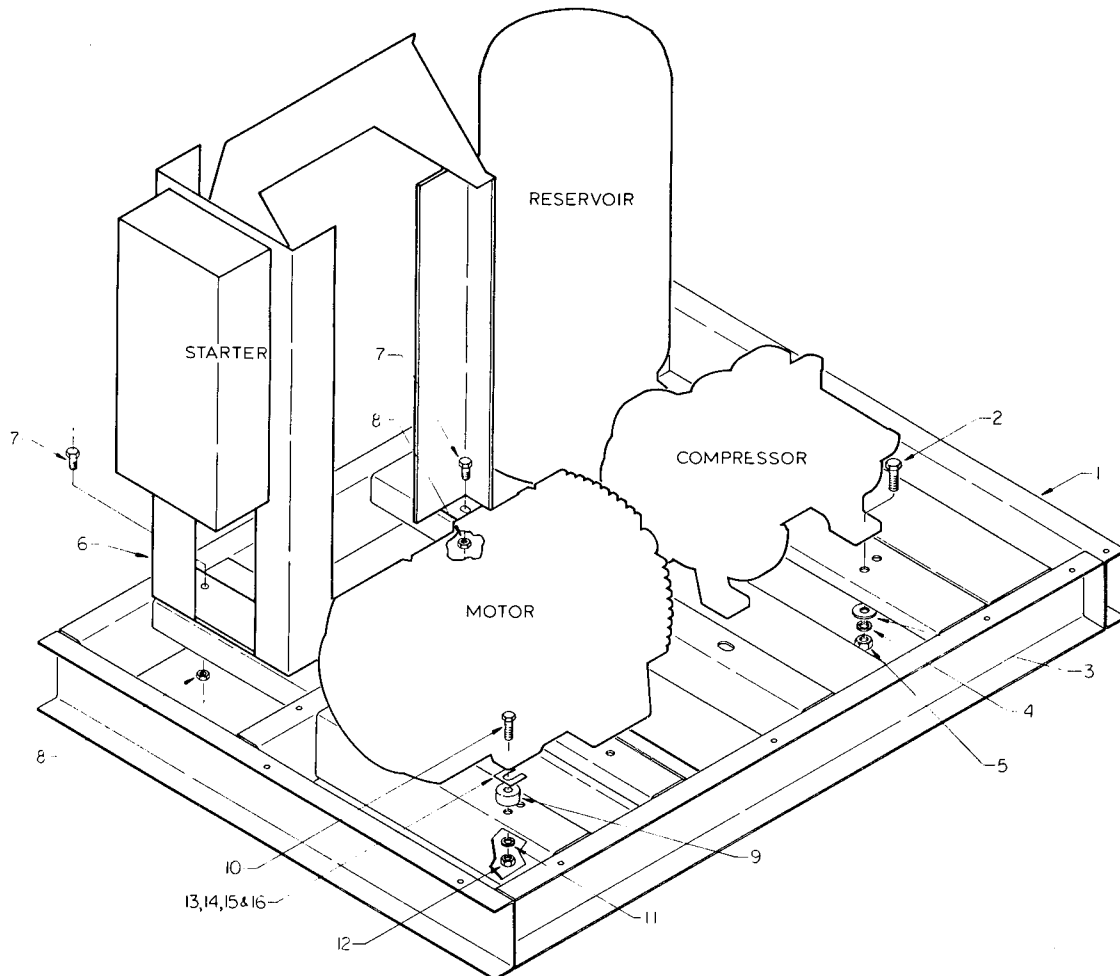
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



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

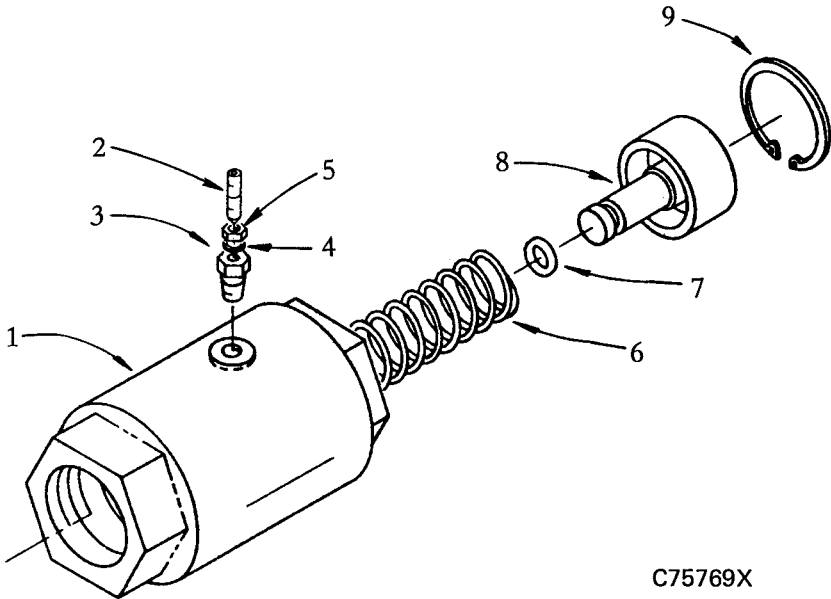
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



D76606

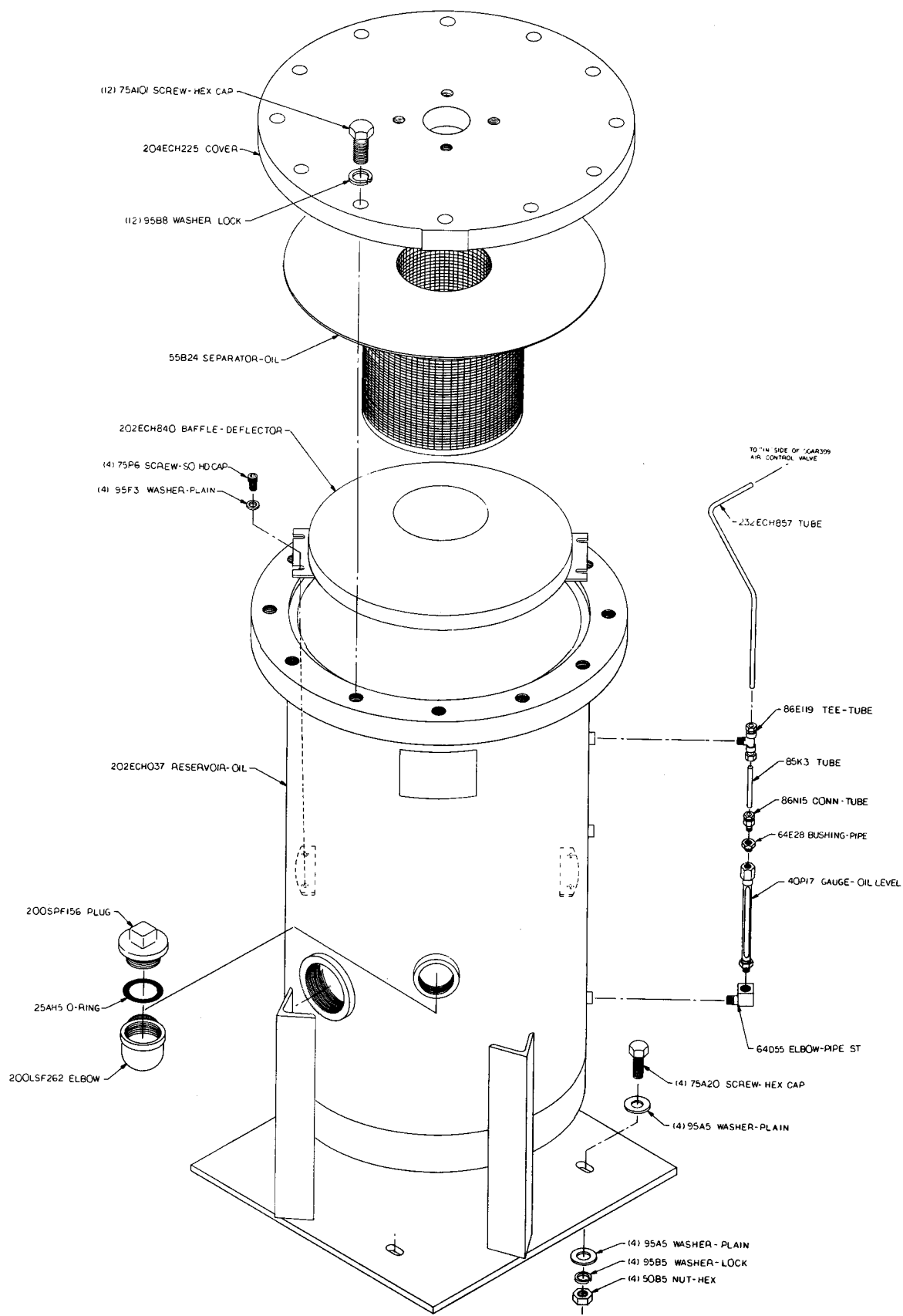
Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models
BASE MOUNTING			
1	BASE	1	200ECH285
2	SCREW-HEX CAP, Compressor to Base	4	75A47
3	WASHER-PLAIN, Compressor to Base	4	95A7
4	WASHER-LOCK, Compressor to Base	4	95B7
5	NUT-HEX, Compressor to Base	4	50B7
6	BRACKET, Starter	1	200ECH142
7	SCREW-FLANGED, 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.



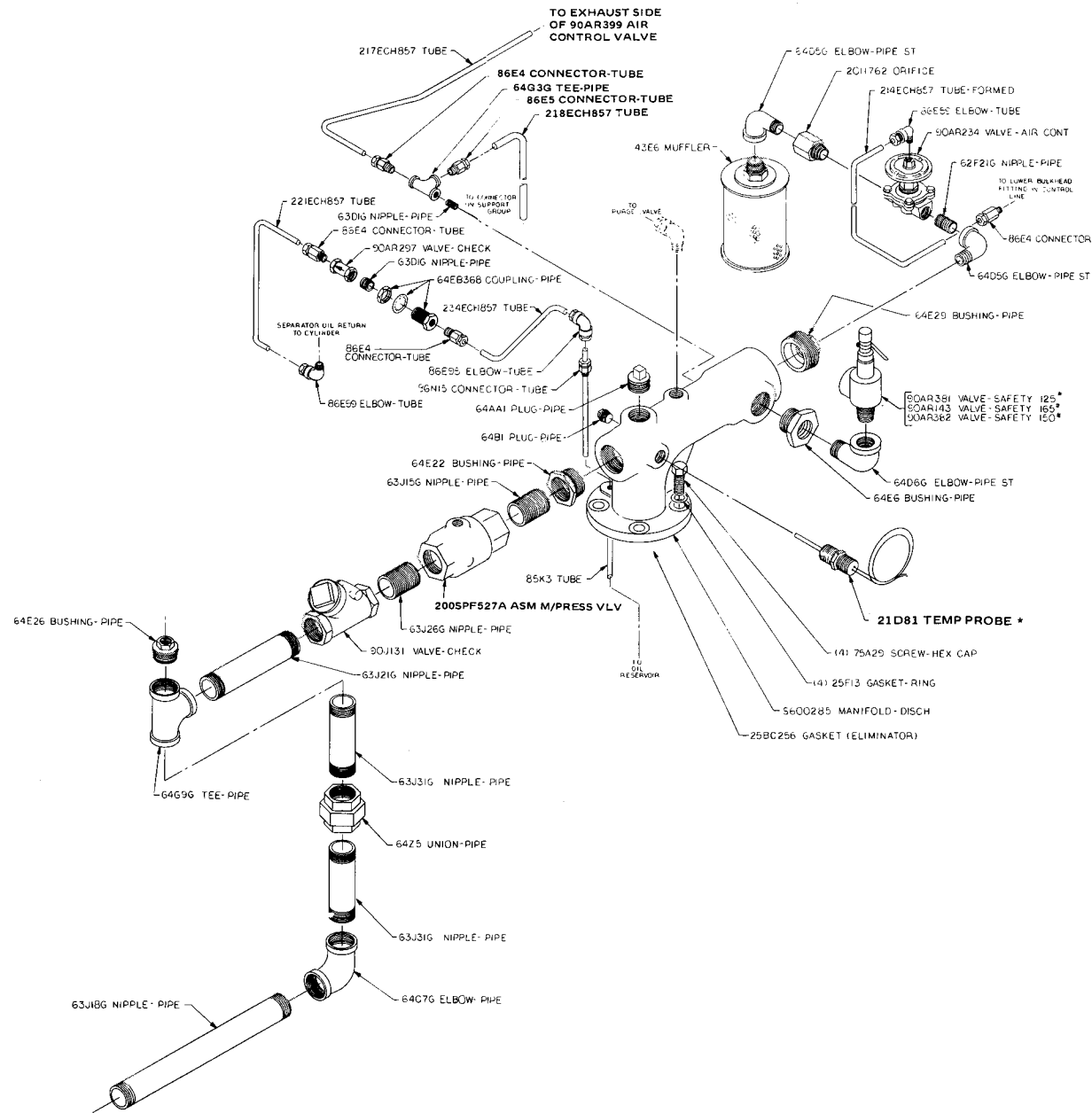
Ref. No.	Name of Part	Qty. Req. Per Comp.	All ECH Models
MINIMUM PRESSURE VALVE			Part No.
	ASM MINIMUM PRESSURE VALVE, Incl. Ref. No. 1 thru 6	1	200SPF527A
1	HOUSING, Valve	1	202SPF182
2	SCREW-ADJUSTING	1	200ESM176
3	ADAPTOR	1	200ESM170
4	GASKET-RING	1	25F39
5	LOCKNUT	1	50AW17
6	SPRING	1	78W13
7	O-RING	1	25A/M18
8	VALVE	1	200SPF527
9	RING-RETAINING	1	65W44

OIL RESERVOIR



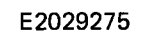
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AIR DISCHARGE PIPING

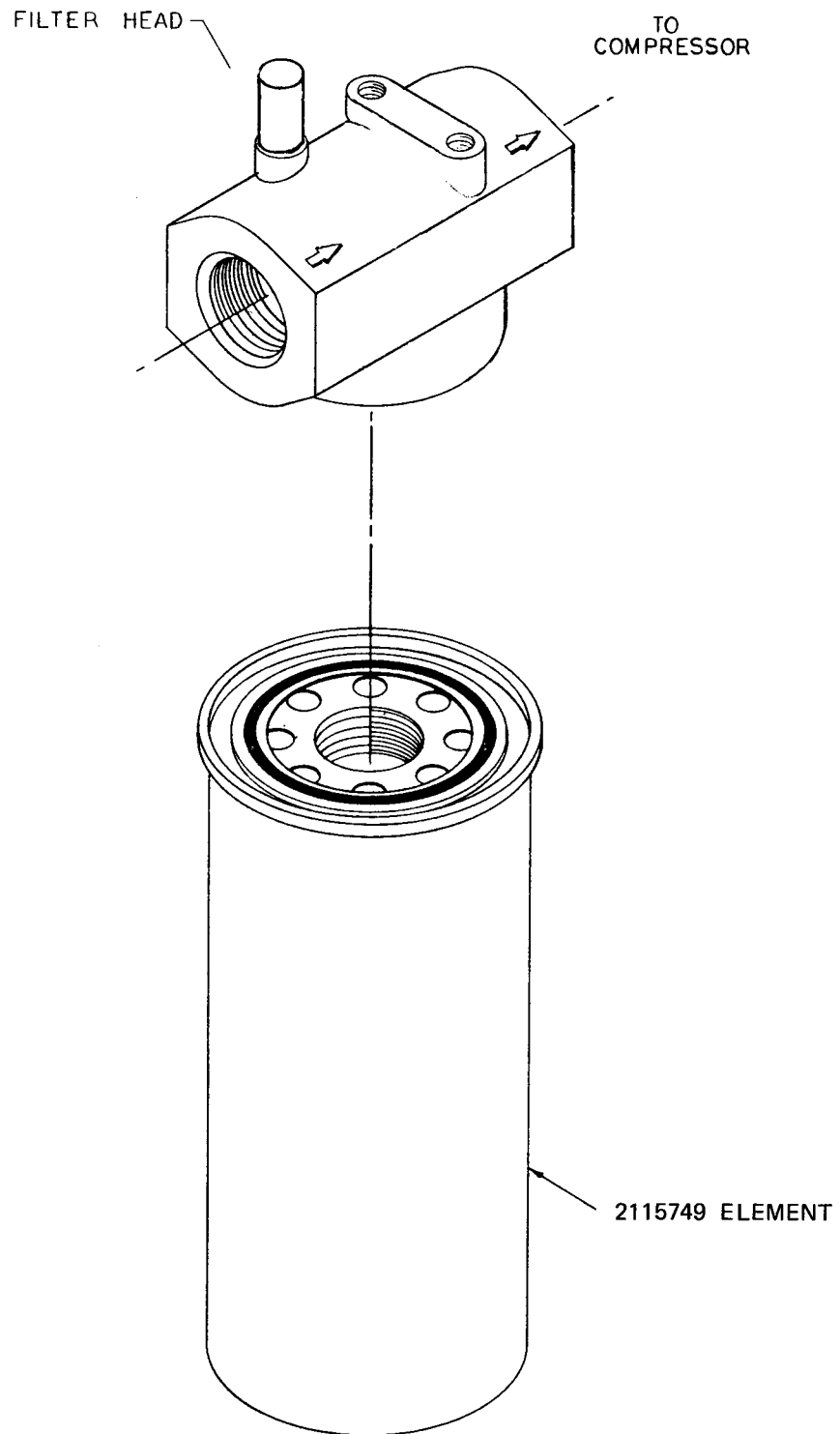


* For repair of 21D81
Temp. Probe furnish
EAQ78540 Temp.
Probe Kit.

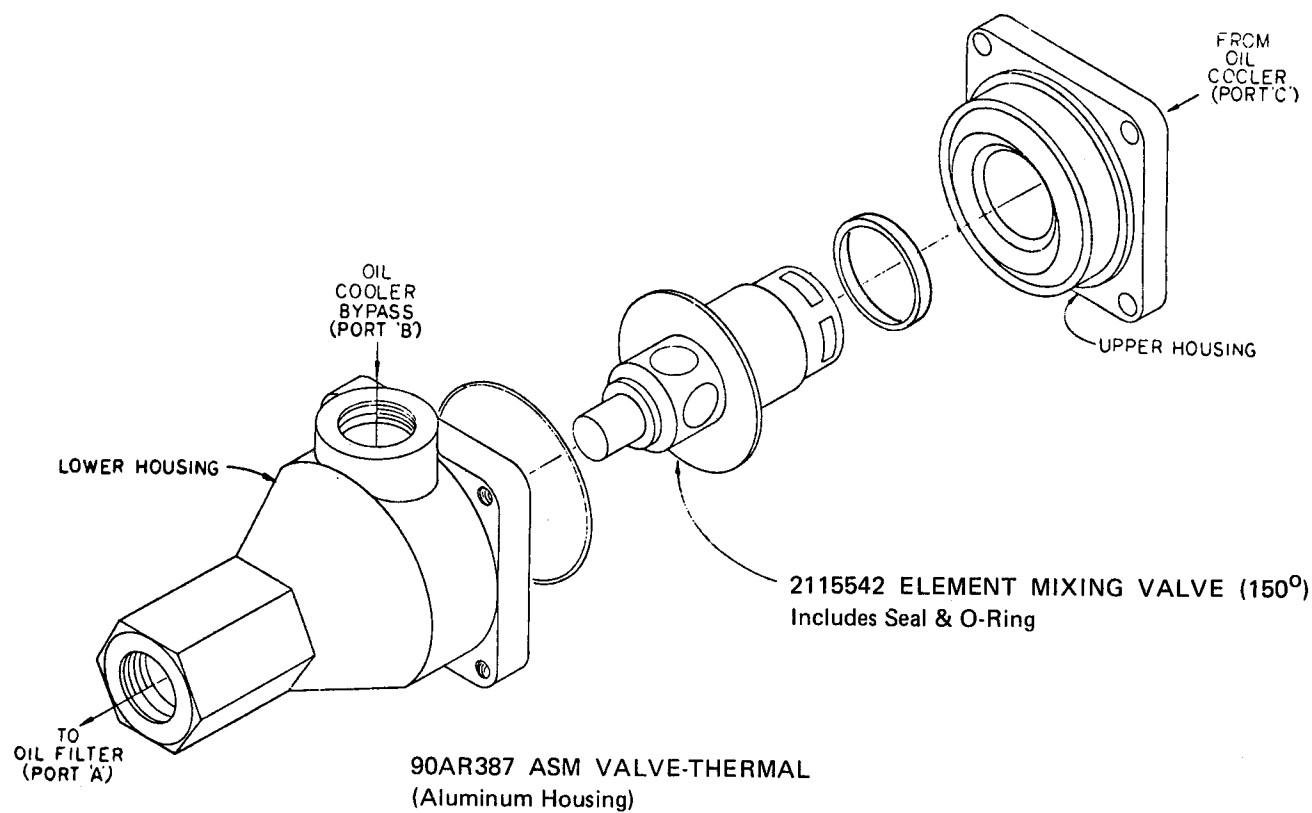
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OIL FILTER - 26C23

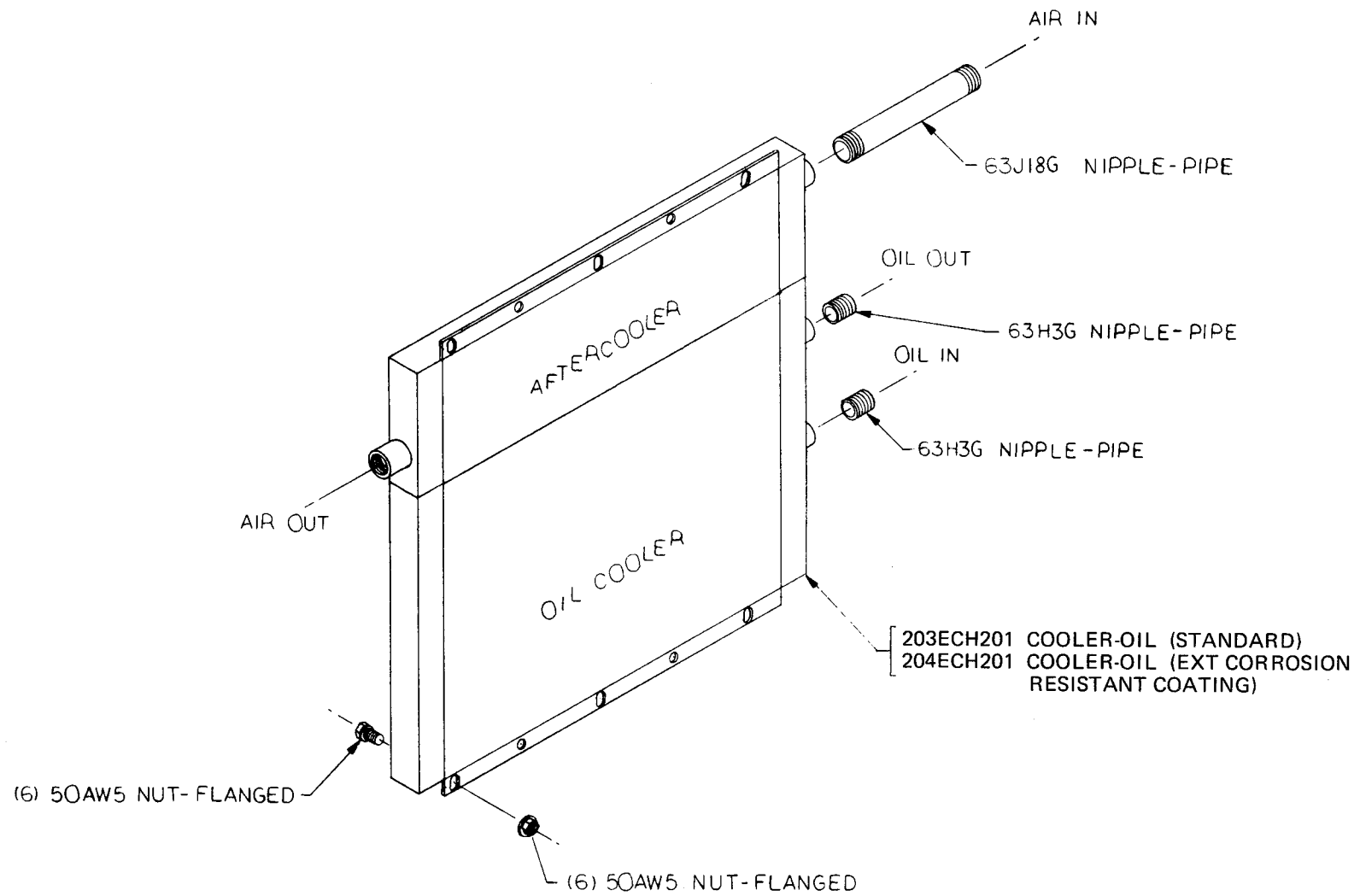


THERMAL VALVE
(Aluminum Body)

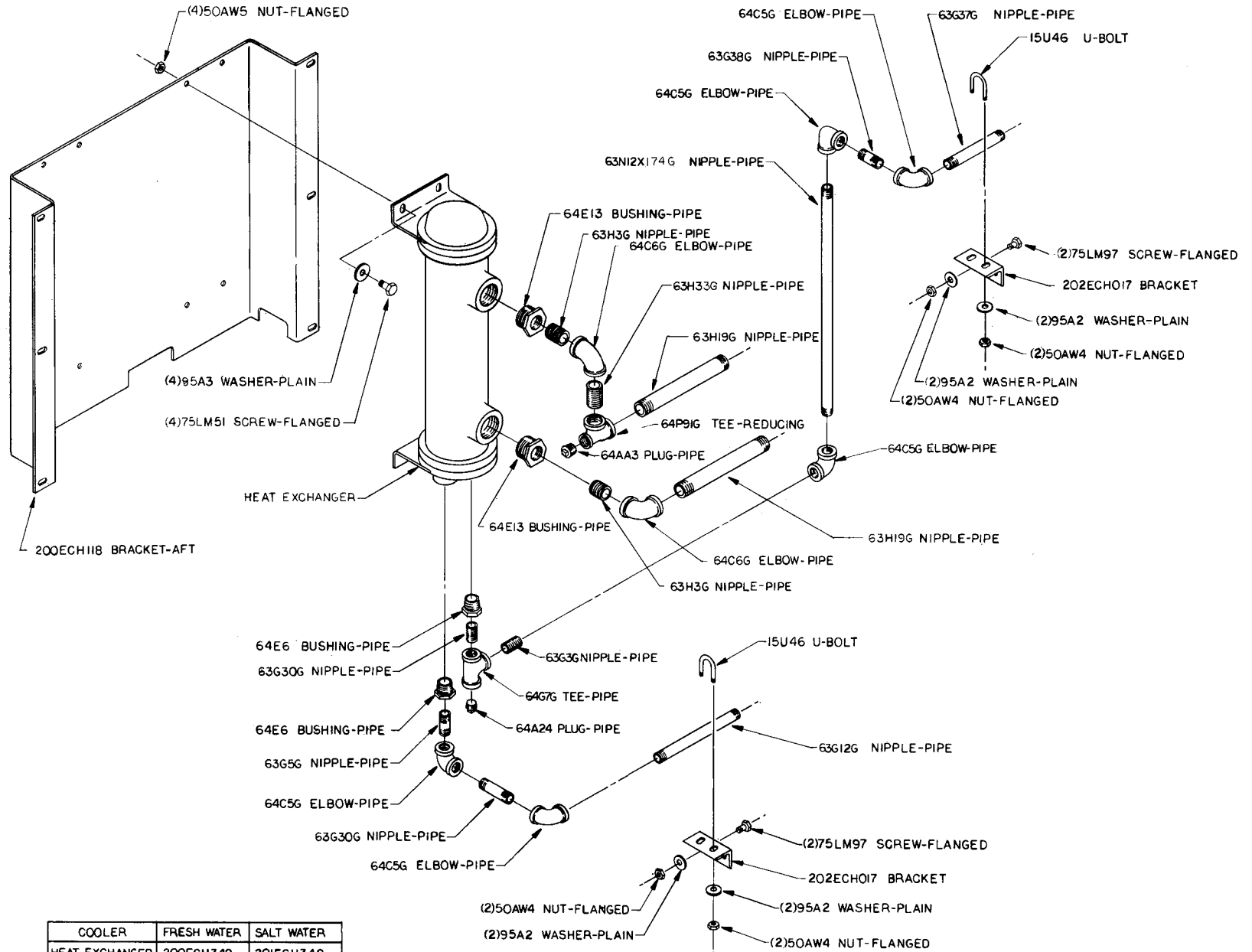


Actual appearance of part may vary from detail shown above.

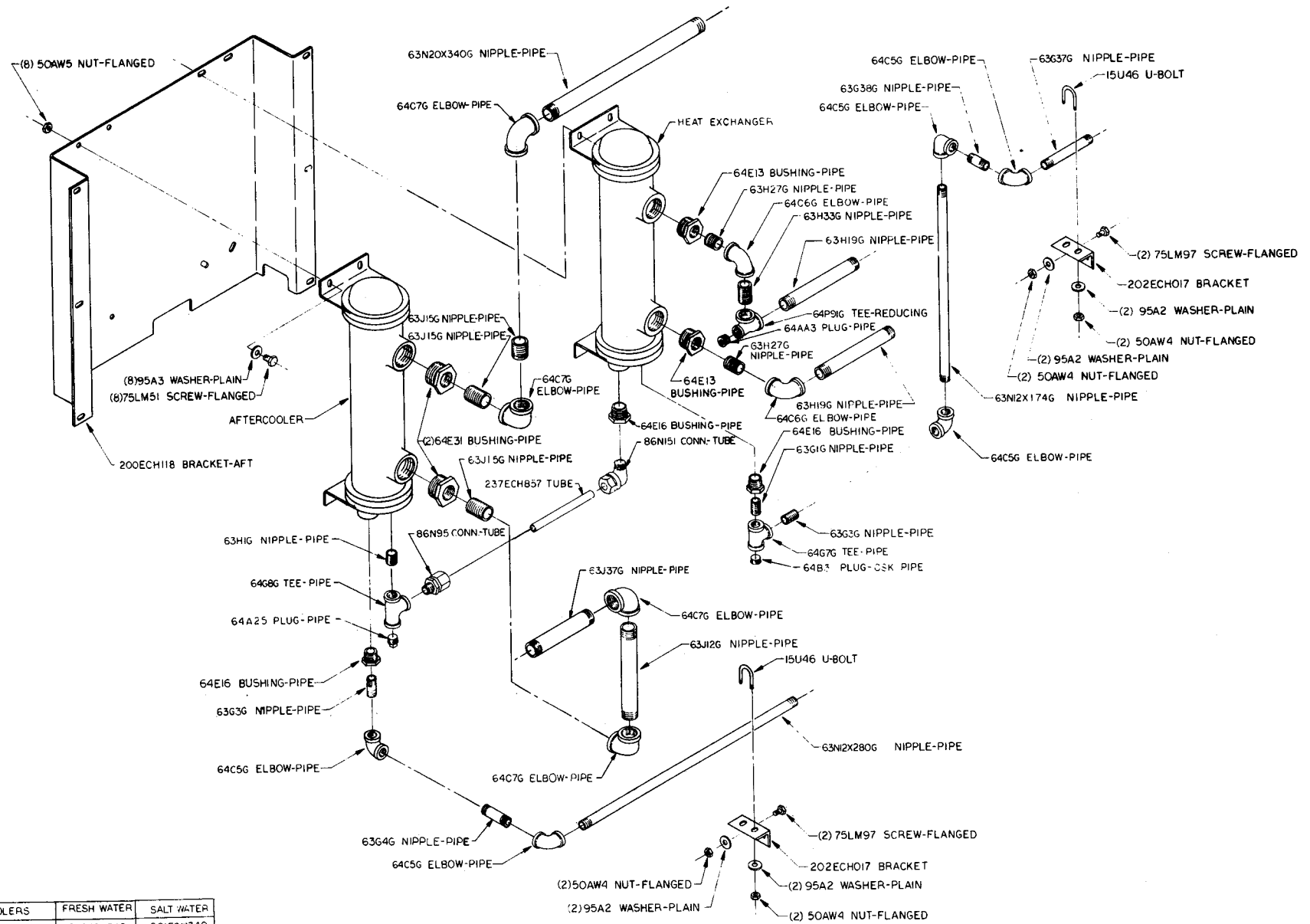
AIR-COOLED OIL COOLER



WATER-COOLED HEAT EXCHANGER (Oil Cooler)



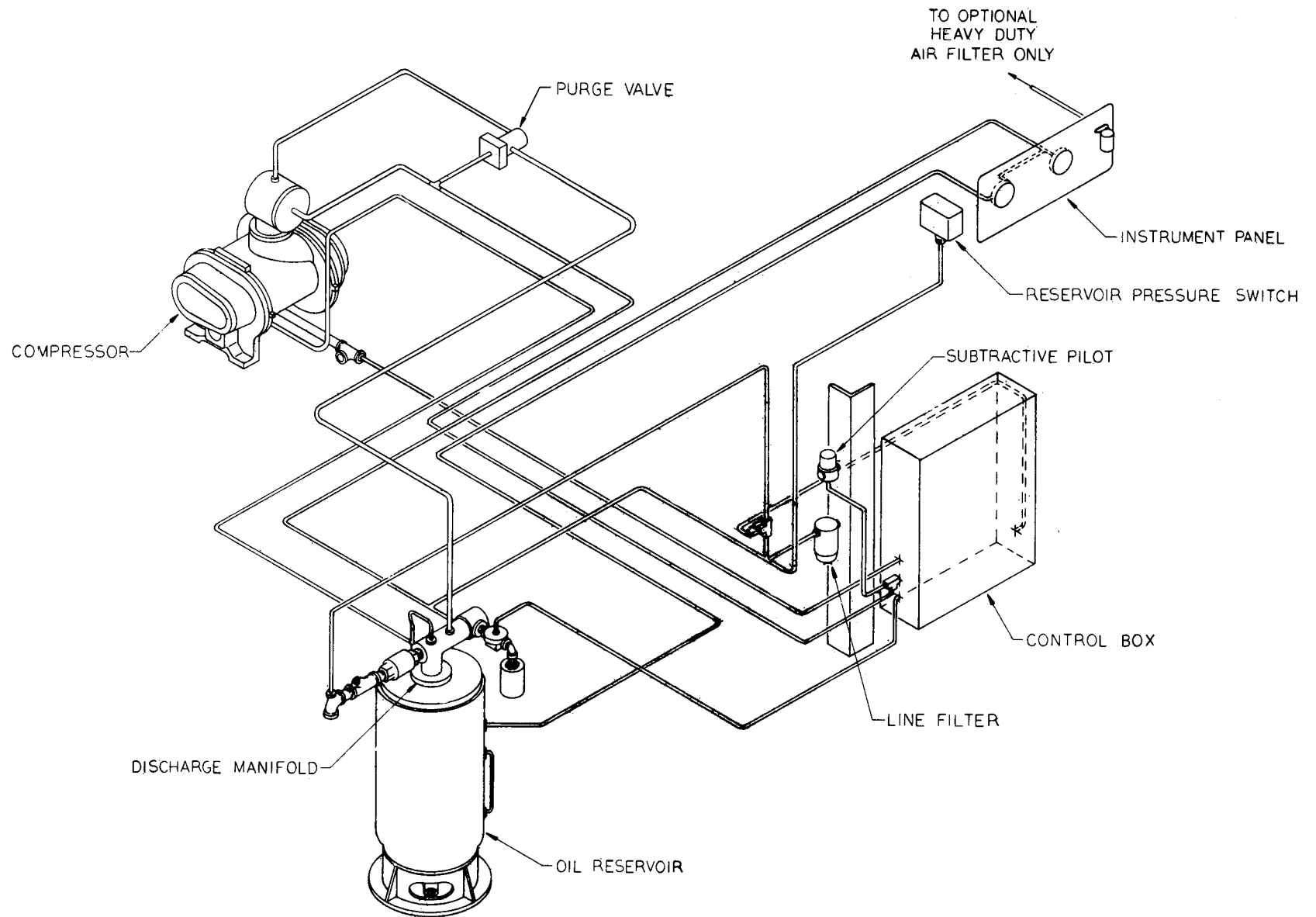
WATER-COOLED HEAT EXCHANGER (Oil Cooler) WITH AFTERCOOLER



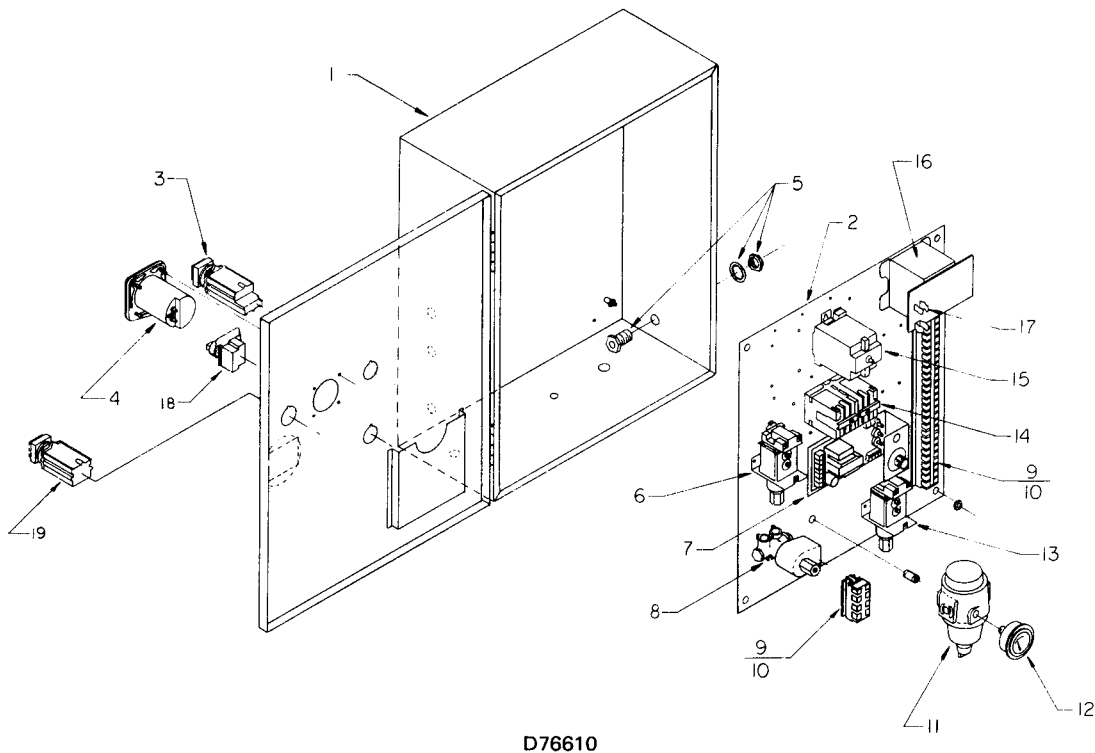
COOLERS	FRESH WATER	SALT WATER
HEAT EXCHANGER	200ECH349	201ECH349
AFTERCOOLER	201ESG292	202ESG292

E2029410

CONTROL SCHEMATIC



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			Part No.
1	BOX-CONTROL	1	See Page 23
†	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 23
3	SWITCH-ON/OFF	1	See Page 23
4	HOURLMETER (50 Hz)	1	2009370
4	HOURLMETER (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 23
17	FUSE-TRON	1	See Page 23
18	SWITCH — 2 Position Selector	1	24CA782
19	LIGHT, Pilot — Dual	1	24CA552

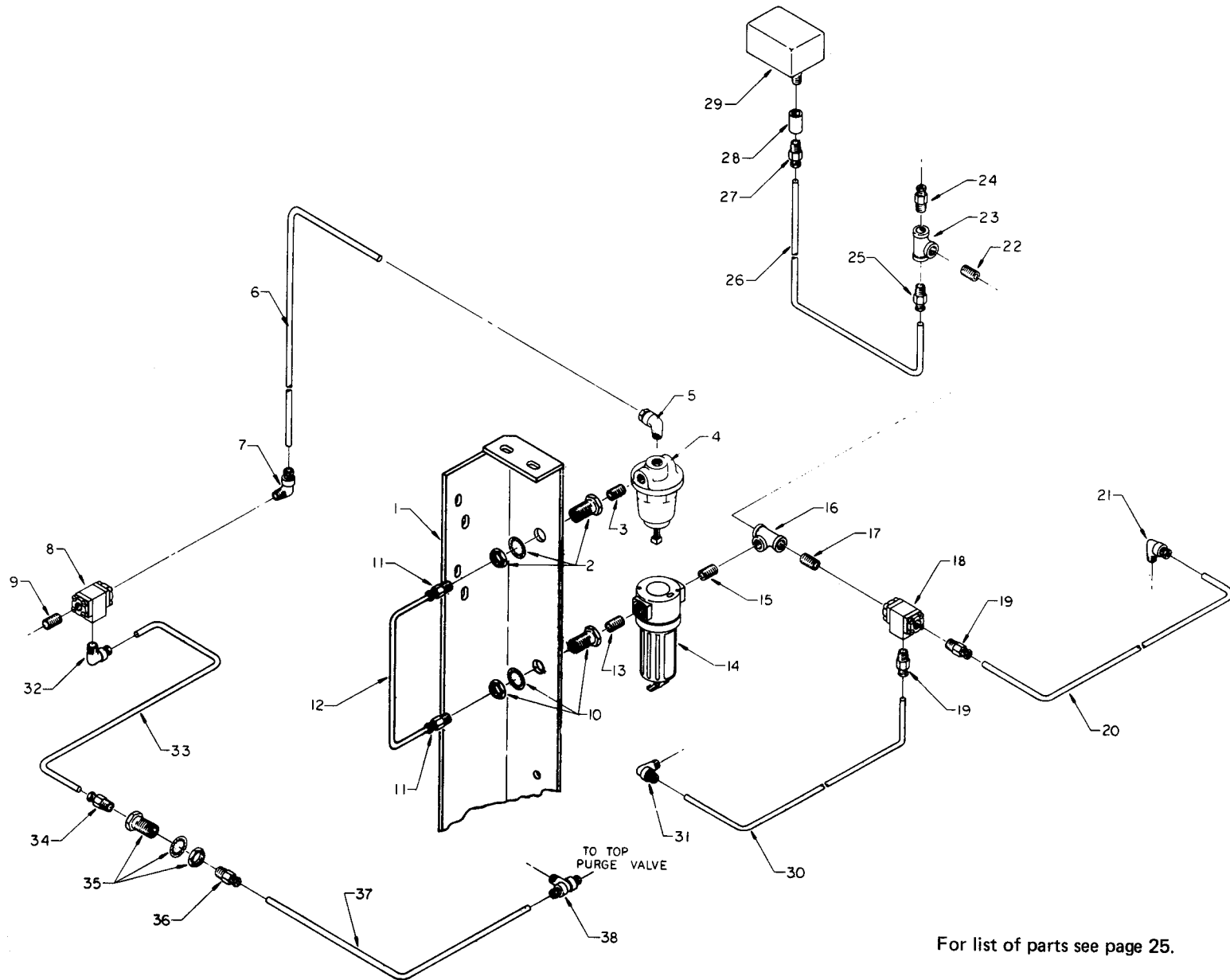
† Not shown on illustration.

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

CONTROL LINES

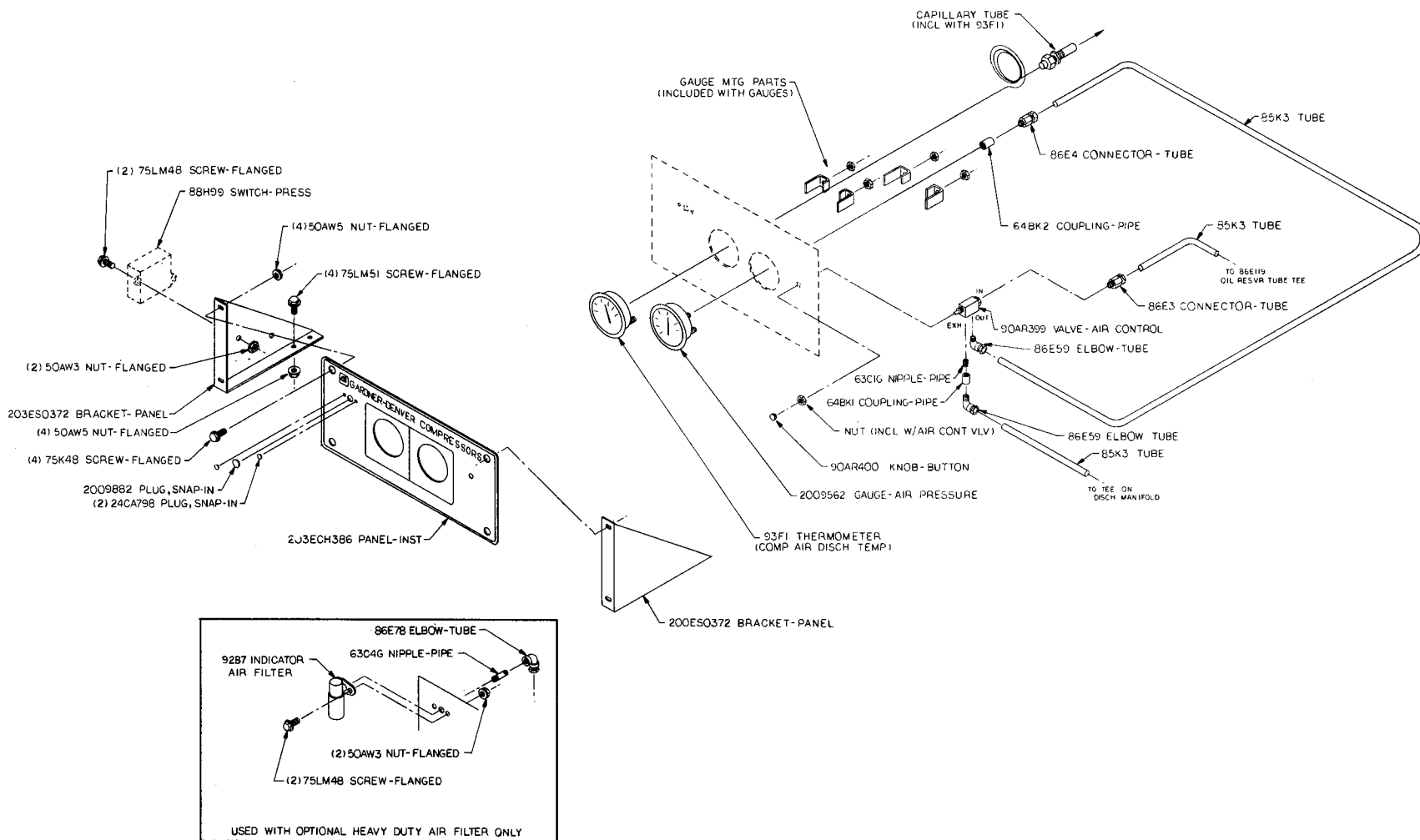


For list of parts see page 25.

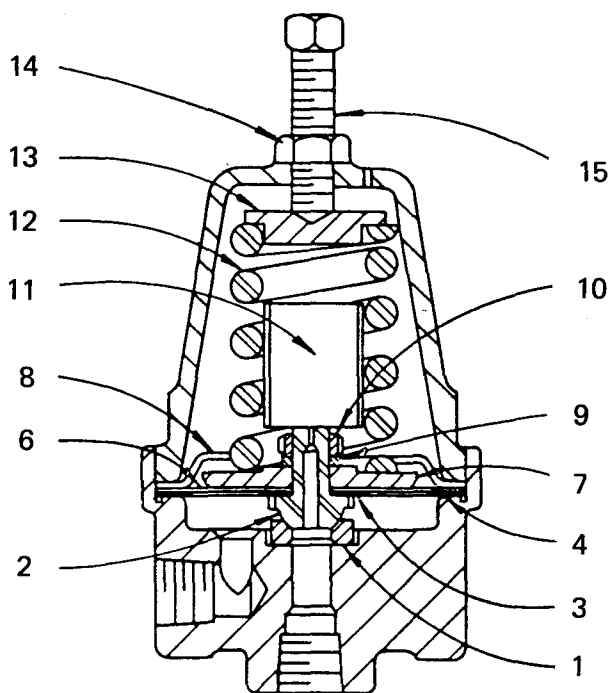
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.

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, Subtractive 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

INSTRUMENT PANEL



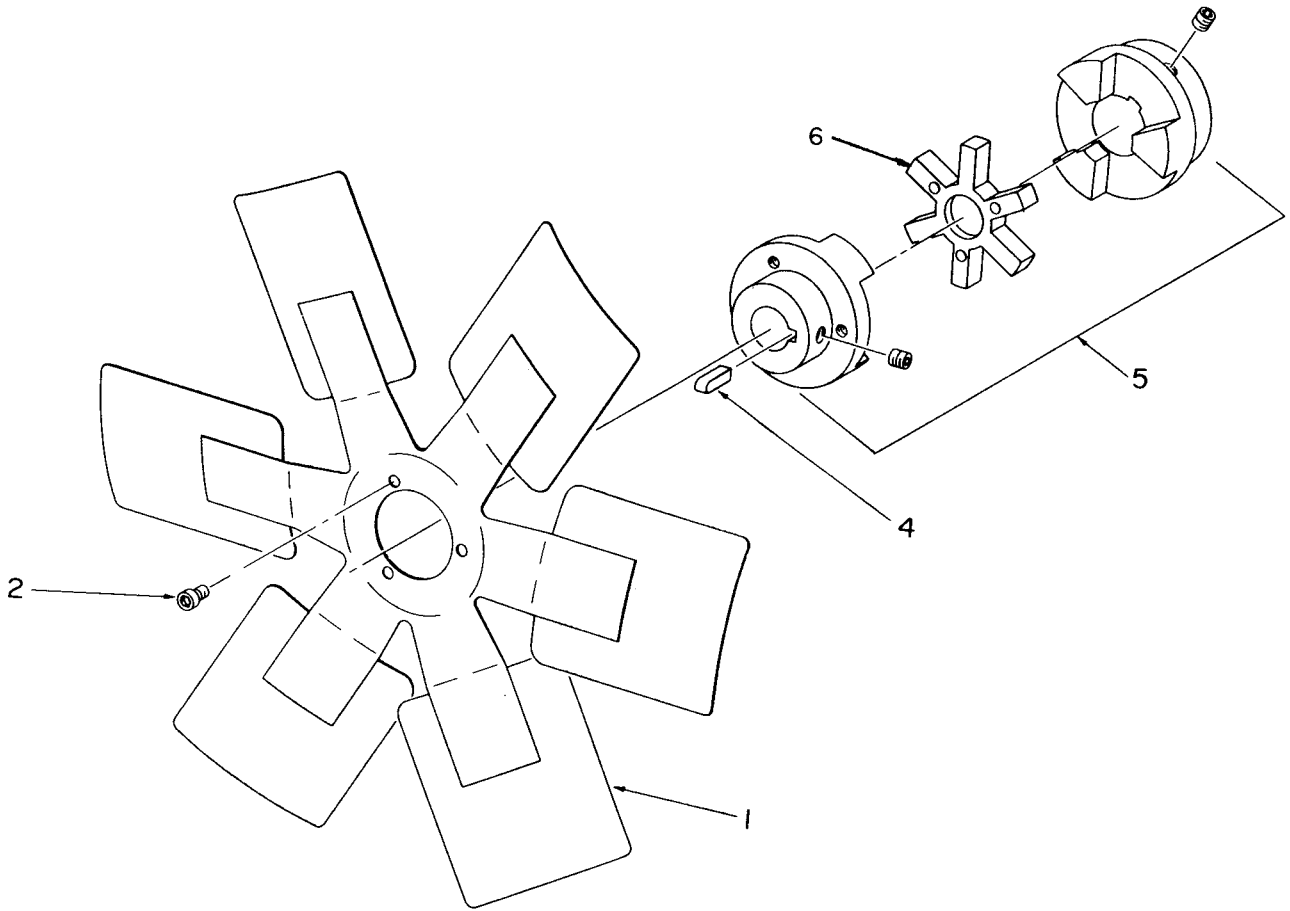
ORDER BY PART NUMBER AND DESCRIPTION. REFERENCE NUMBERS FOR YOUR CONVENIENCE ONLY.



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.



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

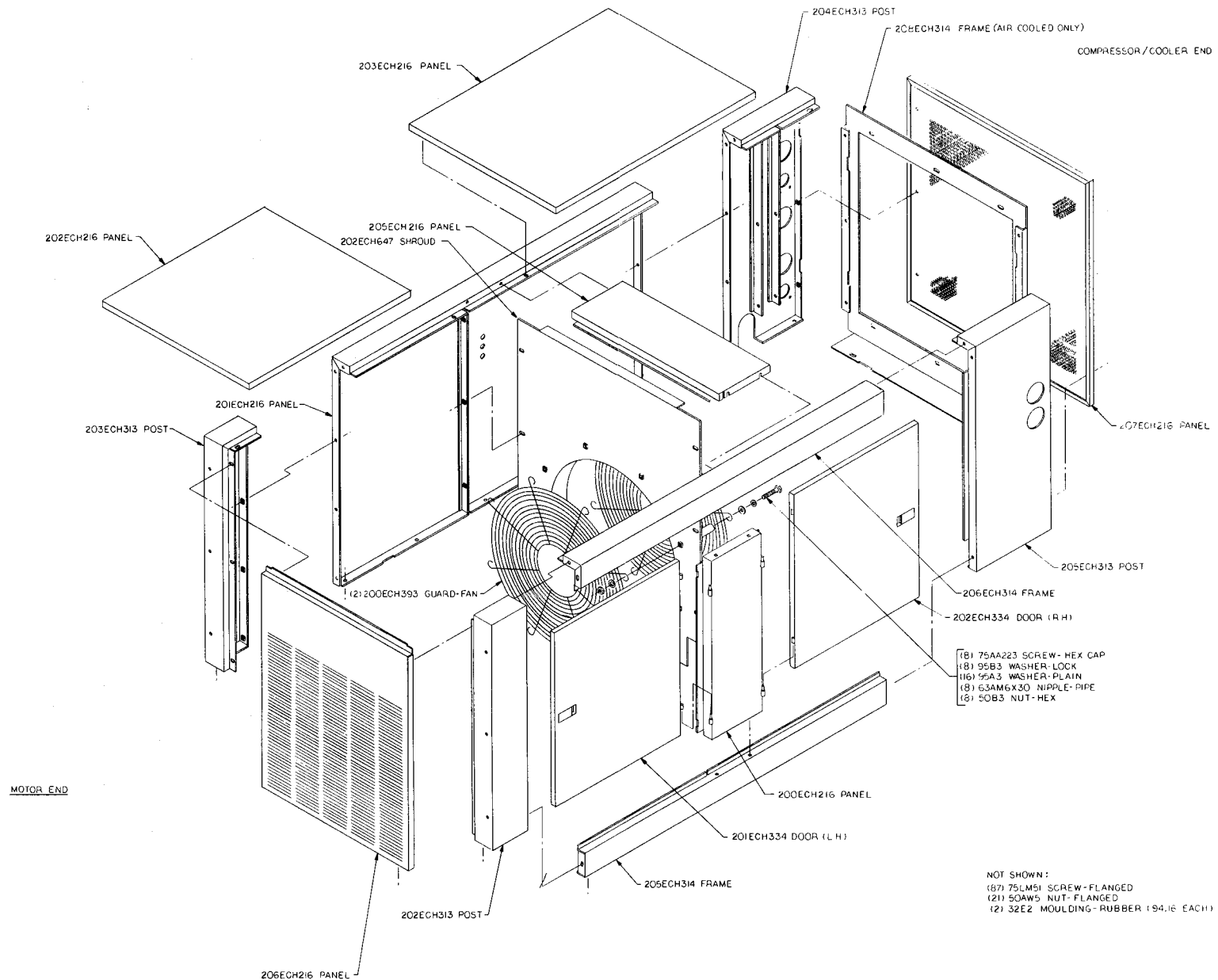
MOTOR STARTER GROUP

Column Option Number		NEMA I				NEMA IV			
		200V	230V	460V	575V	200V	230V	460V	575V
		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

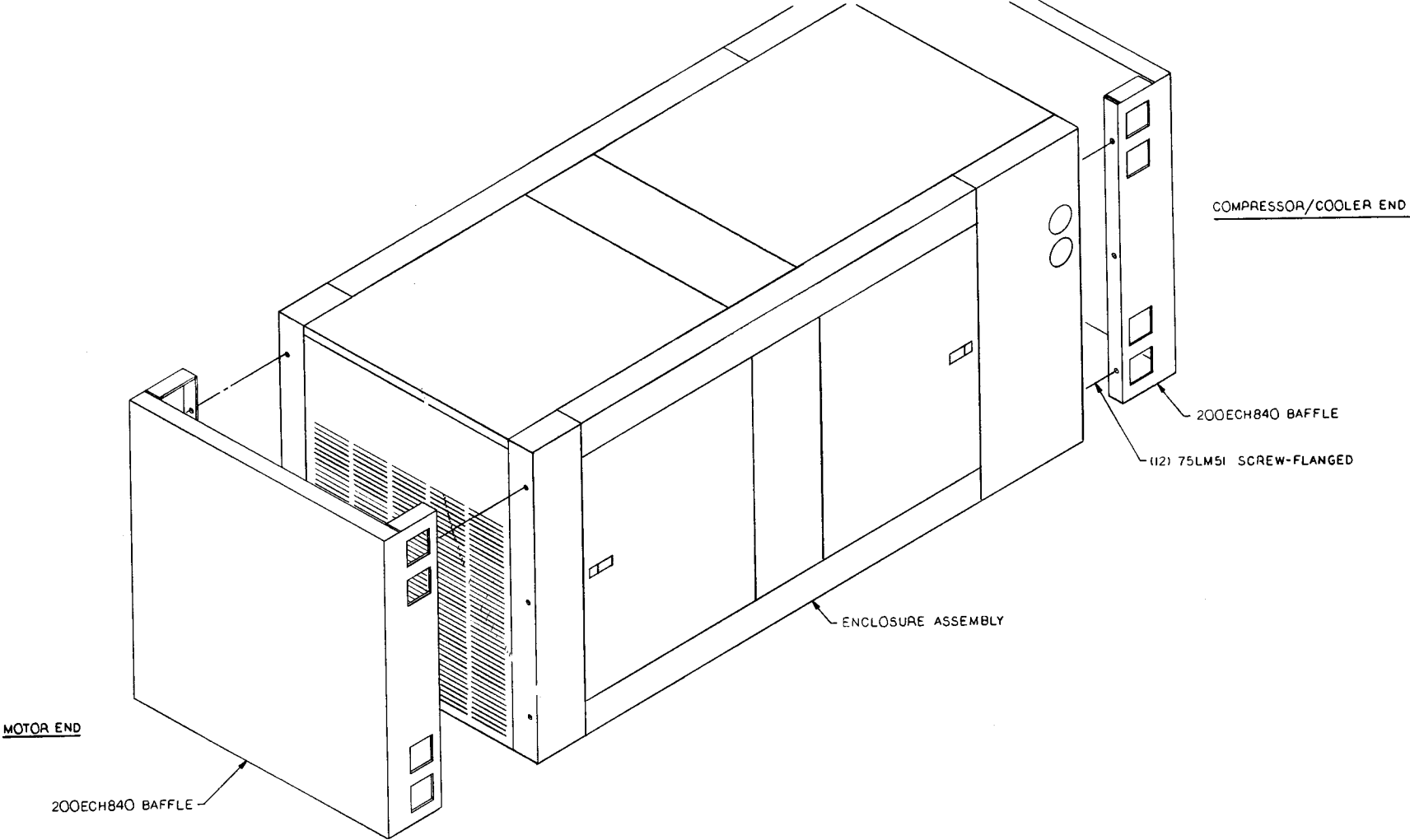
MOTOR & MOUNTING GROUP

Column Option Number		OPEN DRIP-PROOF (60 Hz) (ODP)				TOTALLY ENCLOSED FAN-COOLED (60 Hz) (TEFC)			
		200V	230V	460V	575V	200V	230V	460V	575V
		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



QUIET ENCLOSURE GROUP



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	208ESG007
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	— "G-D" (Vertical)	1	69F18
DECAL	— FILLED AT FACTORY WITH "GD800"	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	203EAQ496
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. Quantities 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	ECH80147	ECH75592	ECH75593
Heavy-Duty Air Filter	ECH80146	— — — — —	— — — — —
	KIT NO. 1	KIT NO. 2	KIT NO. 3
Description	Qty. Per Kit	Qty. Per Kit	Qty. Per Kit

KIT NO. 1 — ROUTINE MAINTENANCE

Air Filter Element (Page 7)	2
Oil Filter Element (Page 14)	3

KIT NO. 2 — PERIODIC MAINTENANCE

Inlet Valve Spring (Page 6)	1
Inlet Valve Piston Spring (Page 6)	1
Inlet Valve Packing Ring (Page 6)	2
Valve Disc (Page 6)	1

KIT NO. 3 — PERIODIC OVERHAUL (Mechanical)

Bearing, Main Rotor Inlet (Page 5)	1
Bearing, Secondary Rotor Inlet (Page 5)	1
Bearing, Main Rotor Discharge (Page 5)	1
Bearing, Secondary Rotor Discharge (Page 5)	1
Gasket & Shim Kit (Part No. ECH76365)	1

RECOMMENDED SPARES
(Continued)

HOURS OF OPERATION	18000	18000	18000
PART NO. (Complete Kit)	ECH80134	ECH80187	EAQ73721
	KIT NO. 4	KIT NO. 5	KIT NO. 6
Description	Qty. Per Kit	Qty. Per Kit	Qty. Per Kit

KIT NO. 4 — OIL SEPARATORS

Oil Separator, Tubing and Fittings (Page 11)	1
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KIT NO. 5 — PNEUMATIC CONTROL & GAUGES

Pressure Regulator (Set 15 Lbs.) (Page 20)	1
Compressor Discharge Temperature Thermometer (Page 24)	1
Shuttle Valve (1/4") (Page 22)	1
Blowdown Air Control Valve (1/2") (Page 12)	1
Subtractive Pilot Valve (Page 25)	1
Air Control Valve & Button (Page 24)	1 ea.

KIT NO. 6 — ELECTRICAL CONTROL

Air Pressure Switch (Page 20)	1
Oil Pressure Switch (Page 20)	1
Temperature Switch (120 VAC) (Page 20)	1
Temperature Switch Probe (Page 20)	2
Timing Relay (Set 10 Seconds Maximum) (Page 20)	1
Four-Way Solenoid Valve (120 VAC) (Page 20)	1
Reservoir Pressure Switch (Page 23)	1



INDUSTRIAL MACHINERY

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