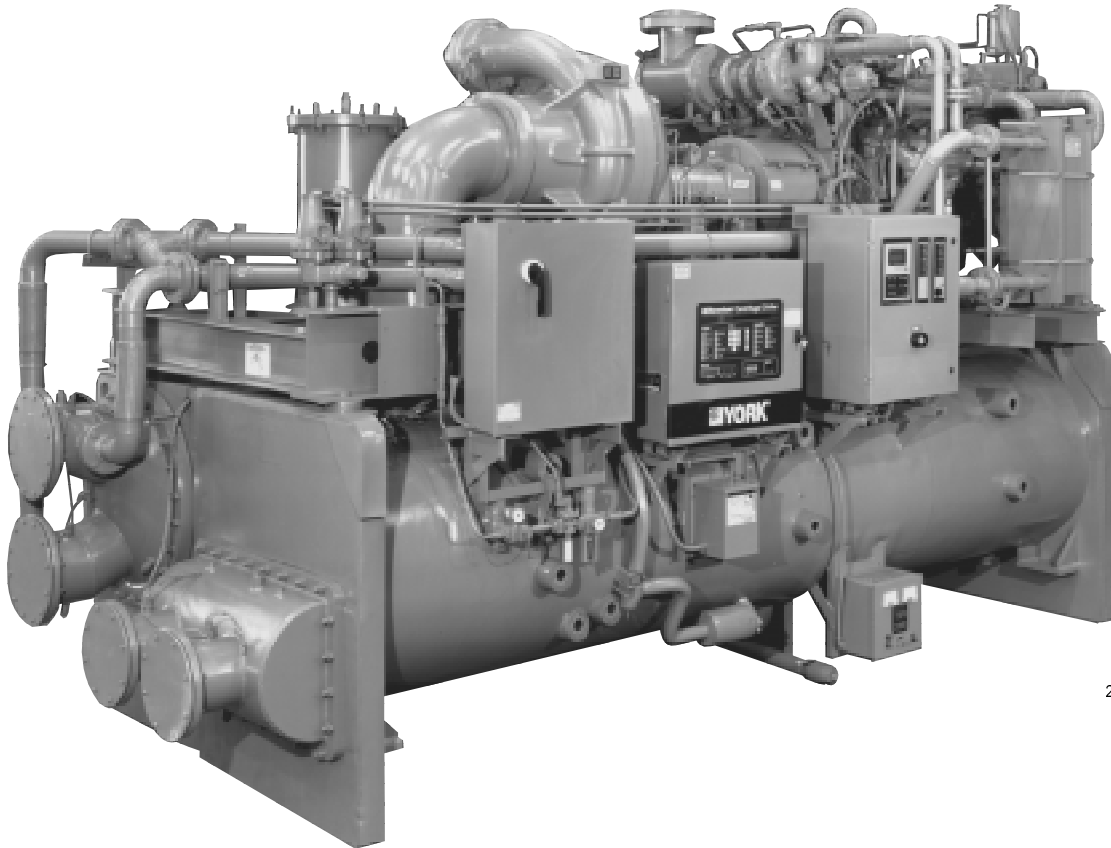


	MILLENNIUM™ GAS-ENGINE-DRIVE CHILLERS	
RENEWAL PARTS	Supersedes: Nothing	Form 160.66-RP1 (299)

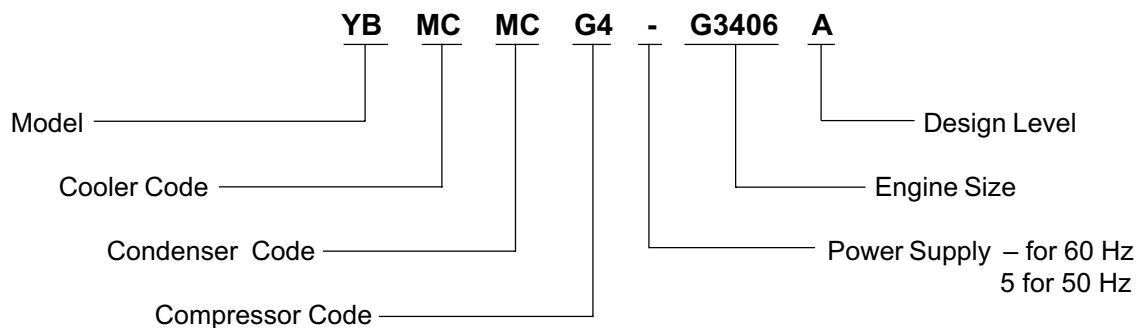
MODEL YB **(DESIGN LEVEL A)**



28699A

NOMENCLATURE

The model number denotes the following characteristics of the unit:

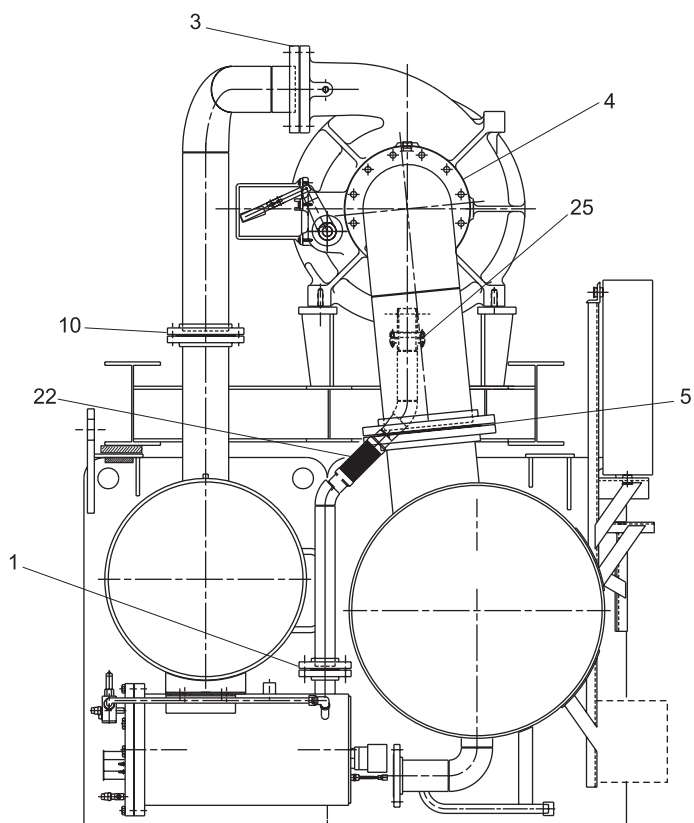


For Control Panel and Power Panel Parts, refer to 160.66-RP2.

For Compressor Parts, refer to Form 160.49-RP2.

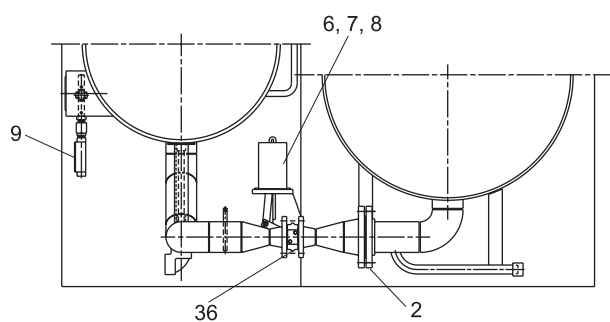
ITEM NO.	DESCRIPTION	PART NUMBER	QUAN.	FIG. NUMBER
1	GASKET - TOP OF OIL RESERVOIR	028-12504-000	1	1-A
2	GASKET - VARIABLE ORIFICE FLANGE	028-12267-000	1	1-B
3	GASKET - COMPRESSOR DISCHARGE FLANGE	028-11007-001	1	1-A
4	GASKET - COMPRESSOR SUCTION FLANGE	028-12265-000	1	1-A
5	GASKET - COOLER / SUCTION	028-12268-000	1	1-A
6	VALVE - VARIABLE ORIFICE	022-09510-000	1	1-B
7	MOTOR - VARIABLE ORIFICE	025-17175-000	1	1-B
8	ARM, CRANK - VARIABLE ORIFICE	025-17073-000	1	1-B
9	SENSOR - REFRIGERANT LEVEL	025-31712-000	1	1-B
10	GASKET - CONDENSER / DISCHARGE	028-12273-000	1	1-A
11	KIT, ISOLATOR - DRIVELINE TO SHELLS (Set of 4)	028-13473-000	1	1-L
12	ISOLATOR, MOUNTING - CONTROL PANELS	029-22354-000	6	1-D, F
13	HEAT EXCHANGER	026-34467-000	1	1-H
14	CLUTCH AIR SUPPLY ASSEMBLY	025-32814-000	1	1-C
15	ISOLATOR, MOUNTING - POWER PANEL	028-13474-000	4	1-E
16	HOSE, FLEXIBLE - OIL COOLER	026-34468-002	2	1-J, N
17	GASKET - OIL COOLER & AFTERCOOLER	028-13504-000	7	1-J, N
18	HOSE, FLEXIBLE - AFTERCOOLER & FUEL INLET	026-34468-003	3	1-G, N
19	WELL, THERMO	026-32328-000	1	1-G
20	KEY, LOWSPEED SHAFT	075-25065-000	1	1-M
21	CLUTCH GUARD	375-25153-000	3	1-M
22	HOSE, FLEXIBLE - OIL DRAIN LINE	026-34468-001	1	1-A
23	VALVE, BALL	022-08885-005	2	1-H
24	GUARD, LUBE OIL CONSOLE	375-25166-000	1	1-K
25	"O" RING, 3-1/2" O.D. x 3-1/8" I.D.	028-12597-000	1	1-A
26	GASKET, GAS ENGINE	028-13869-001	2	1-H
27	GASKET, GAS ENGINE	028-13869-002	1	1-N
28	GASKET, GAS ENGINE	028-13869-003	1	1-P
29	VALVE, BALL	022-08885-001	1	1-G
30	ISOLATORS (SET OF 4)	029-22351-000	1	1-L
31	GEAR, SPEED INCREASER	029-22308-000	1	1-M
32	CLUTCH, AIR OPERATED	029-22445-000	1	1-M
33	COUPLING (ENGINE TO CLUTCH)	029-22430-000	1	1-M
34	COUPLING (GEAR TO COMPRESSOR)	029-20897-000	1	1-Q
35	GUARD, COUPLING (GEAR TO COMPRESSOR) – TOP	064-48913-000	1	1-Q
	– BOTTOM	064-48916-000	1	1-Q
36	VALVE, BUTTERFLY	022-09510-000	1	1-B

FIG. 1 – UNIT COMPONENTS



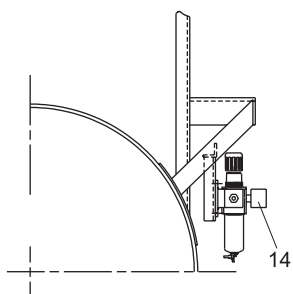
A - COMPRESSOR END OF UNIT

LD03166



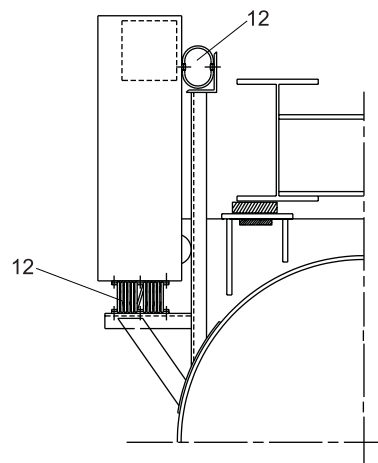
B - VARIABLE ORIFICE LOCATION

LD03167



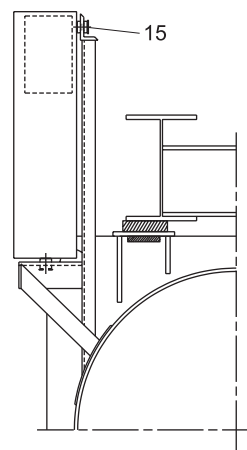
C - AIR REGULATOR

LD03176



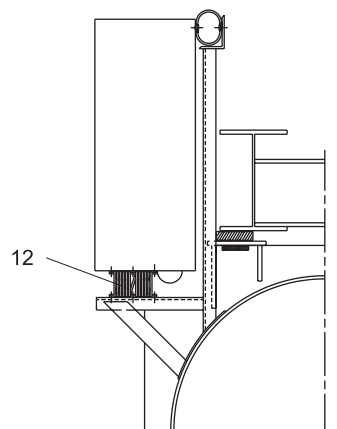
D - COMPR. CONTROL PANEL

LD03174



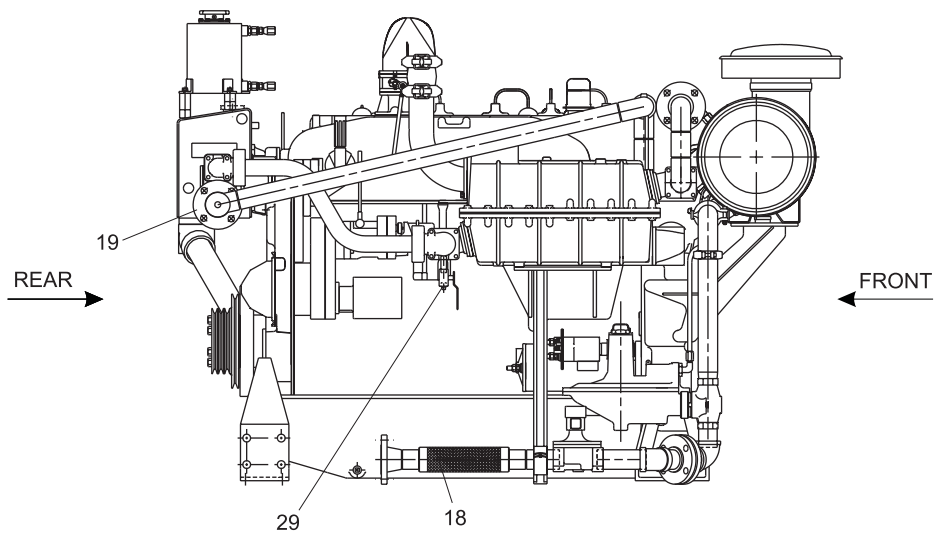
E - A/C PANEL

LD03173



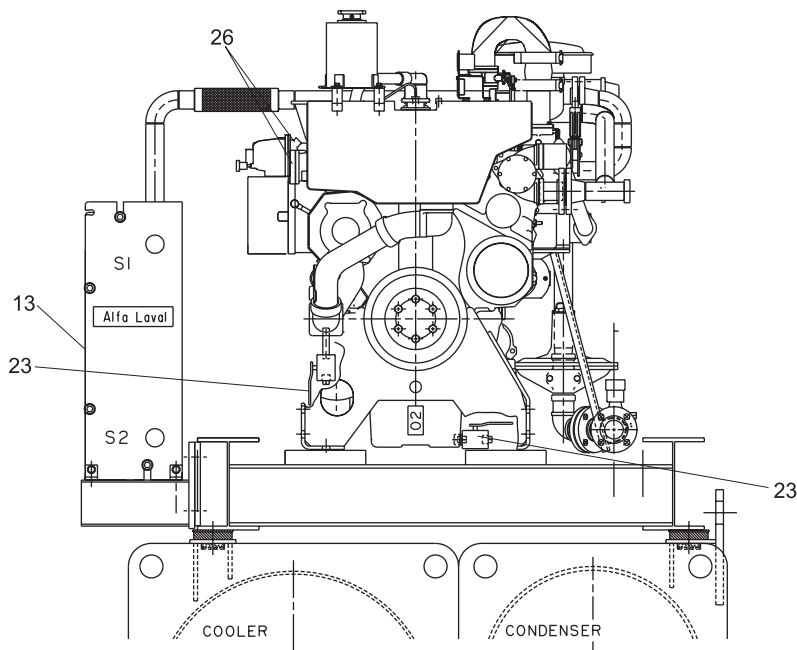
F - ENGINE CONTROL PANEL

LD03175



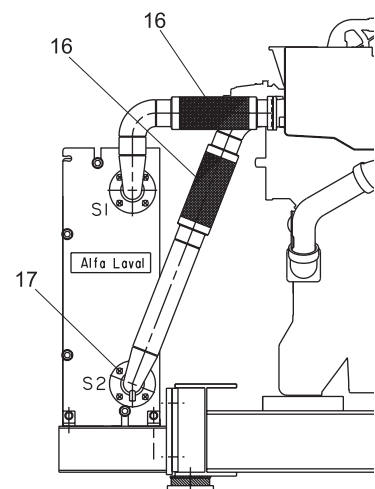
G - SIDE VIEW OF ENGINE

LD03170



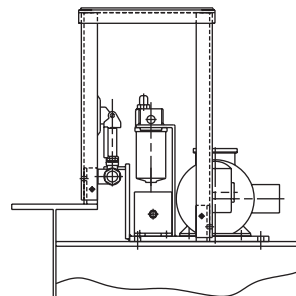
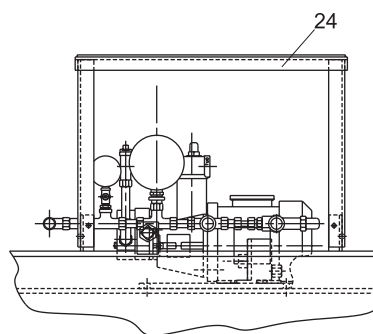
H - END VIEW OF ENGINE

LD03172



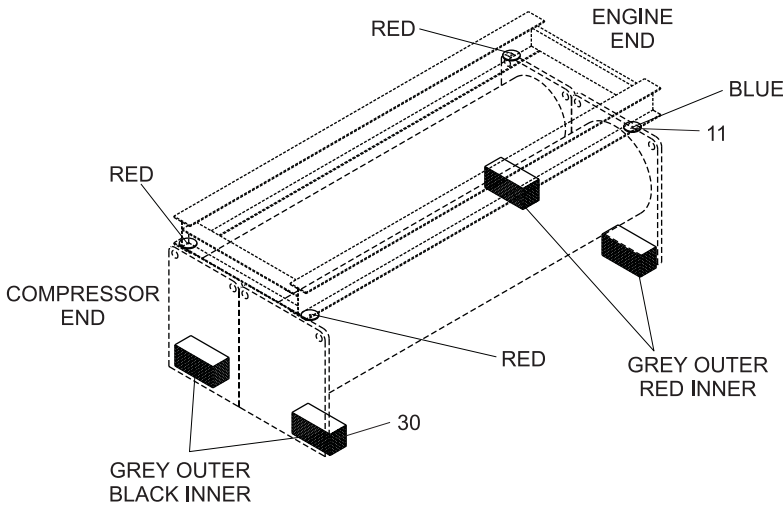
J - END VIEW OF ENGINE

LD03234



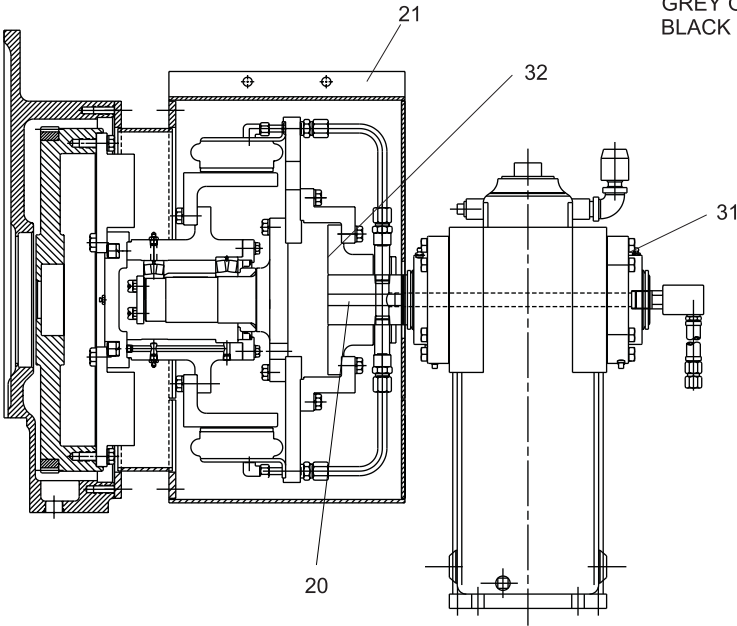
K - LUBE OIL CONSOLE

LD03179



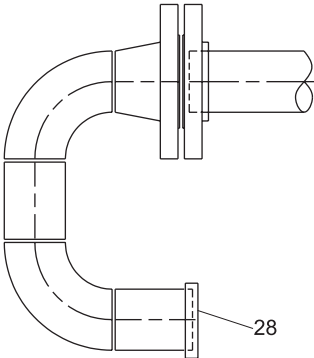
L - ISOLATOR LOCATION

LD03178



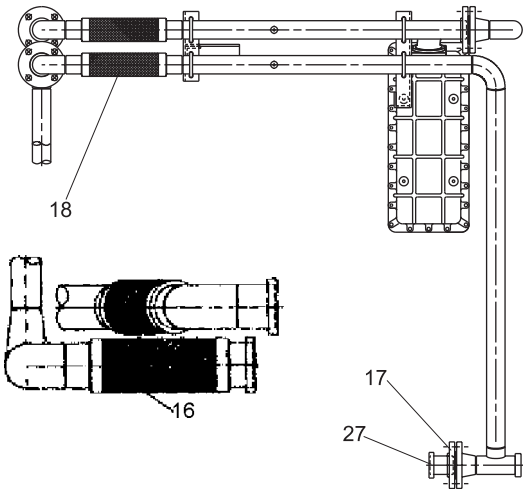
M - CLUTCH

LD03177



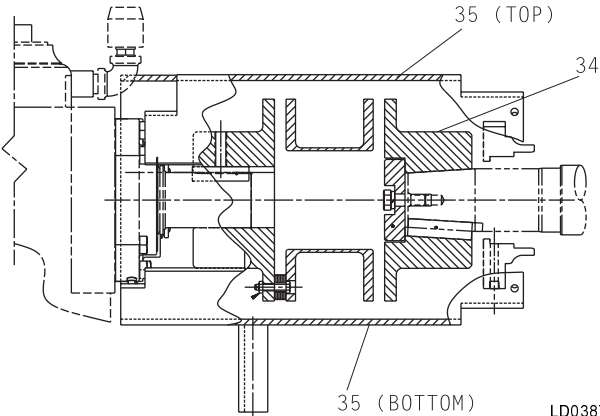
P - AFTERCOOLER PIPING

LD03169



N - AFTERCOOLER CONNECTIONS

LD03171



Q - COUPLING GUARD

LD03876

FIG. 1 – CONTINUED

ITEM NO.	DESCRIPTION	PART NUMBER	QUAN.	FIG. NUMBER
1	OIL COOLER	026-32833-000	2	2-R, N
2	VALVE, SOLENOID - 2-WAY	025-29152-000	2	2-E, F, H
3	VALVE, CONTROL - THERMOSTATIC	022-08867-000	2	2-G, K
4	VALVE, BALL - 3/4"	022-08738-000	4	2-C, D, J
5	VALVE, BALL - 1"	022-06873-000	4	2-G, H, J, K
6	VALVE, STOP, ANGLE - 1/4"	022-05089-000	2	2-E
7	VALVE, STOP, ANGLE - 1/4"	022-03836-000	3	2-B, E, H
8	VALVE, STOP, ANGLE - 3/8"	022-01582-000	1	2-E, H
9	VALVE, CHECK	022-09559-000	1	2-F
10	FILTER ELEMENT	026-32386-000	1	2-Q
11	DEHYDRATOR, FILTER DRIER	026-13508-000	2	2-E, H
12	STRAINER - 1/4"	029-16764-000	1	2-B, H
13	EDUCTOR	364-18241-000	1	2-F
14	BONNET, SEAL FLARE	023-04236-000	1	2-H
15	TRANSDUCER, PRESSURE	025-28678-001	2	2-E
16	WELL, THERMO	026-32328-000	4	2-P
17	VALVE, BALL - 1/2"	022-08821-000	1	2-P
18	VALVE, BALL - 1-1/2"	022-08873-000	1	2-N
19	VALVE, STOP, ANGLE - 3/4"	022-03850-000	2	2-Q
20	HOSE, FLEXIBLE	026-35016-002	3	2-F, H, L
21	HOSE, FLEXIBLE	026-35015-002	2	2-L
22	BOTTLE, OIL COLLECTION	028-10579-000	1	2-S
22A	CAP / BOTTLE	066-89574-000	1	—
23	HOSE, FLEXIBLE	026-35015-001	5	2-C, G, J, P
24	VALVE, BALL - 1/4"	022-08885-001	1	2-E
25	HOSE, FLEXIBLE	026-35016-001	1	2-A
26	VALVE, RELIEF - 1-1/4" x 1-1/2"	022-07893-025	2	2-E
27	MANIFOLD, DUAL RELIEF VALVE	022-07892-003	1	2-E
28	TRANSDUCER, PRESSURE	025-28678-005	1	2-E
29	CONTROL, HIGH PRESSURE	225-29165-002	1	2-H
30	EDUCTOR, OIL RETURN	366-78306-000	1	2-E
31	HOSE, FLEXIBLE	026-35015-003	2	2-M, P
32	OIL FILTER	026-31684-000	1	2-Q
33	VALVE, BALL CHECK	022-09705-000	1	2-P
34	AUXILIARY BYPASS OIL FILTER	026-35693-000	1	2-D
35	HOSE, OIL FILTER	021-19626-000	1	2-D
36	HEATER, OIL RESERVOIR	025-17700-000	1	2-T
37	HEATER, OIL RESERVOIR	025-29902-000	1	2-T
38	VALVE, RELIEF	022-08872-000	1	2-T
39	GASKET (5-3/8" O.D. X 3-1/2" I.D.)	028-13505-000	4	2-T
40	STRAINER (3")	029-22446-000	1	2-U
41	SIGHT GLASS	026-17581-000	1	2-G

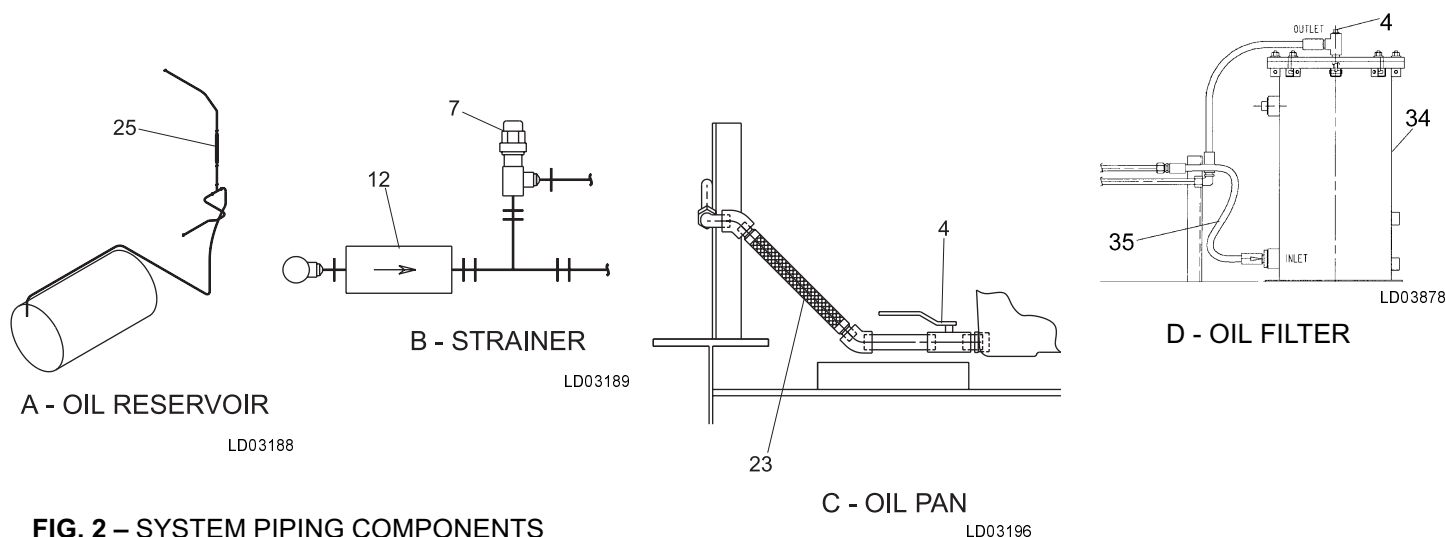
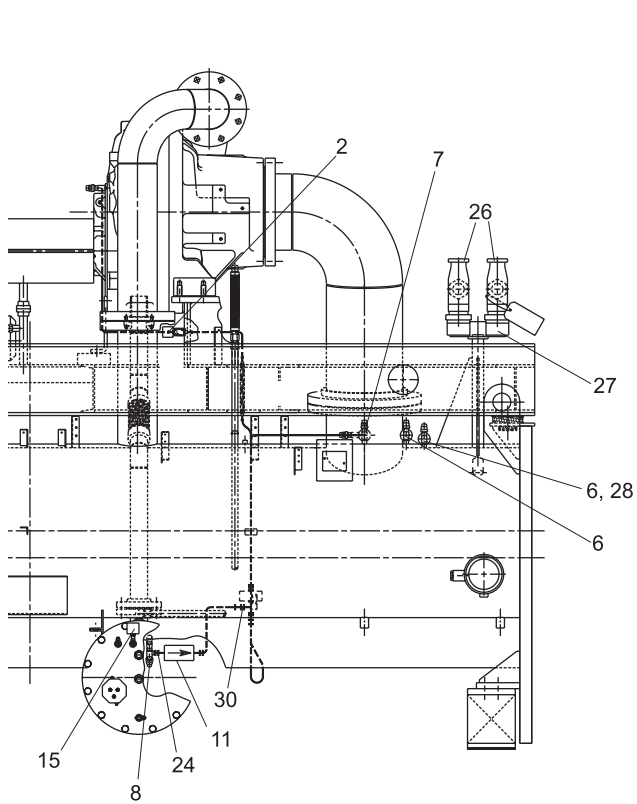
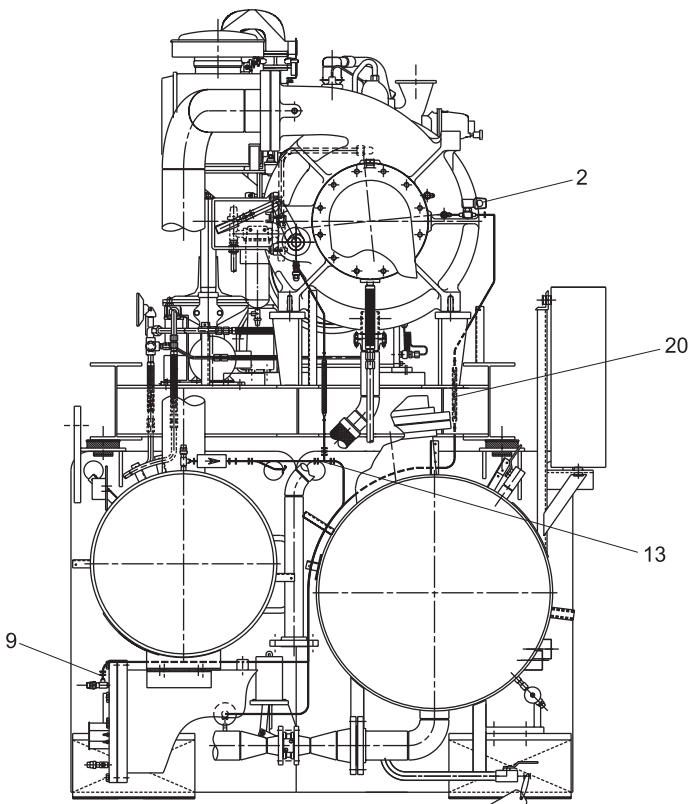


FIG. 2 – SYSTEM PIPING COMPONENTS



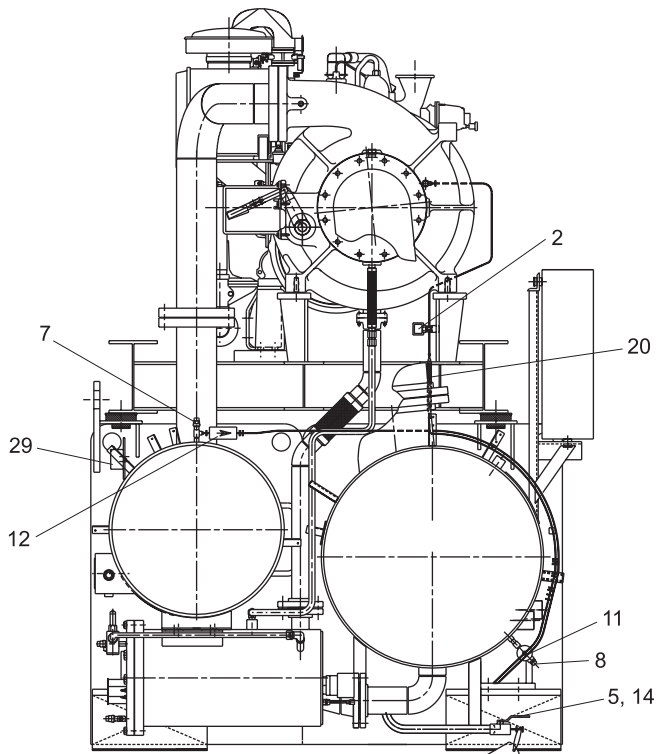
E - REAR OF UNIT

LD03180



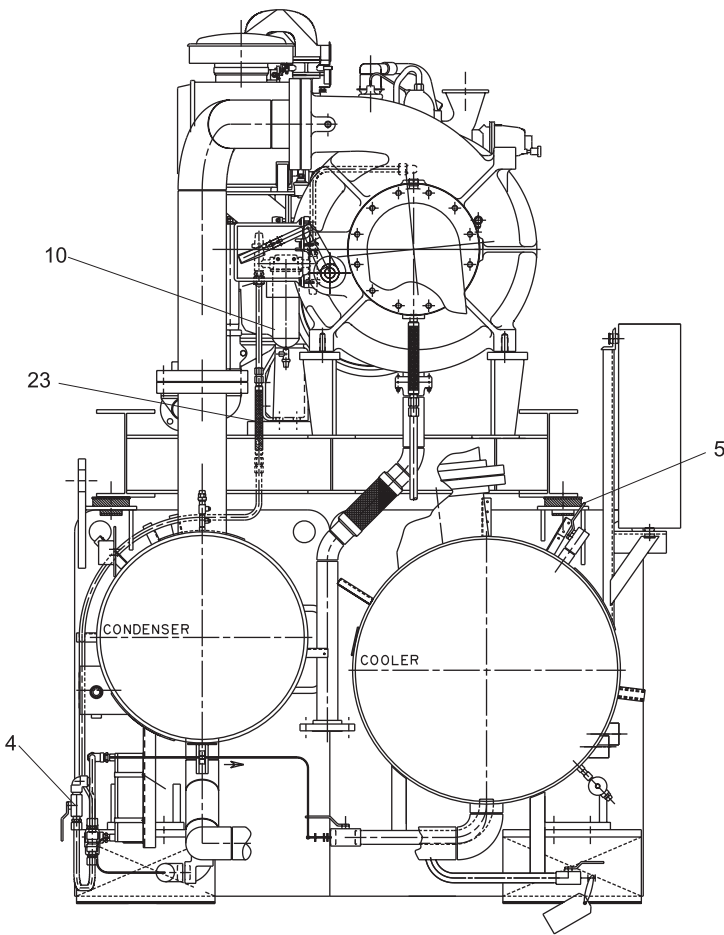
F - COMPRESSOR END

LD03190



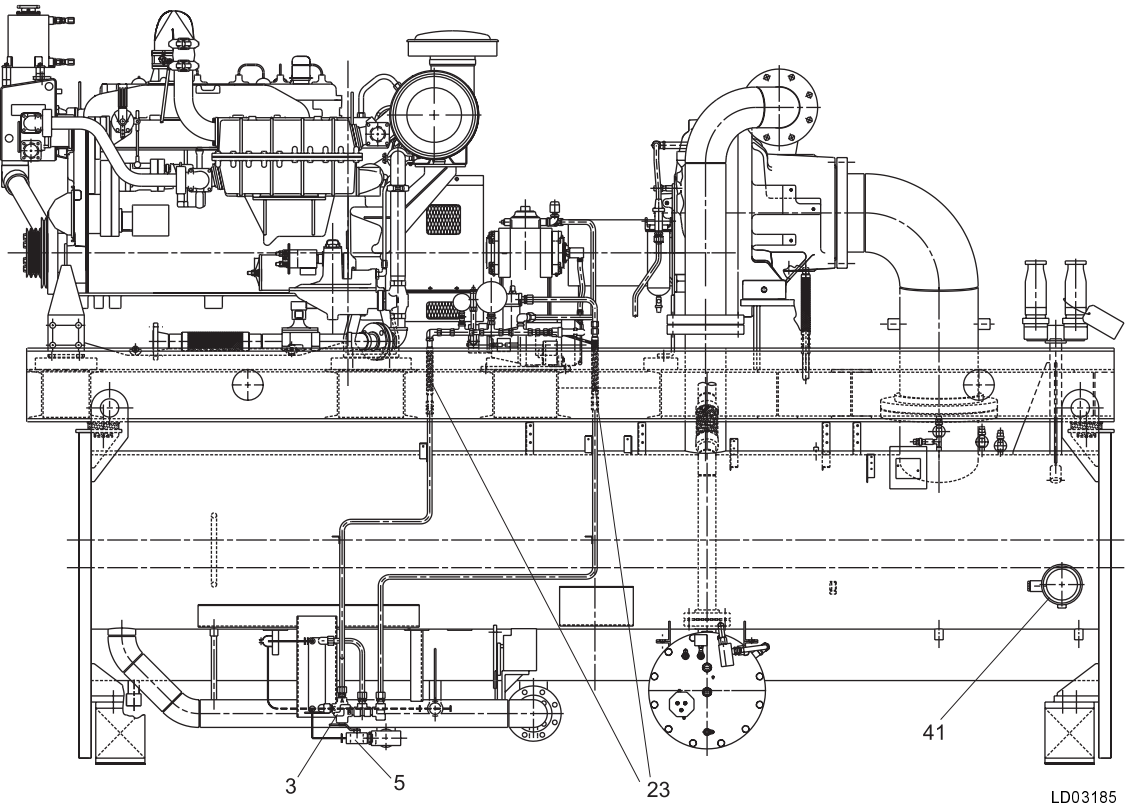
H - COMPRESSOR END

LD03181



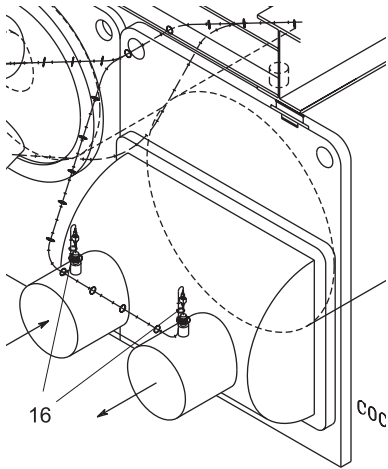
J - COMPRESSOR END

LD03184



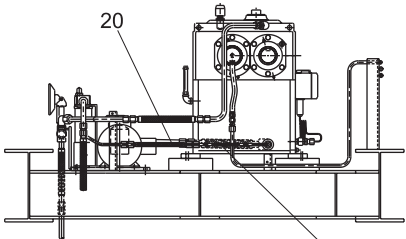
G - REAR OF UNIT

LD03185



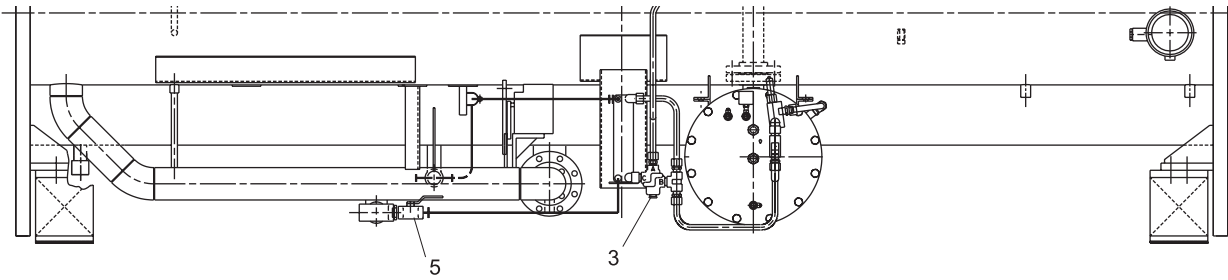
P - COOLER / CONDENSER
NOZZLES

LD03235



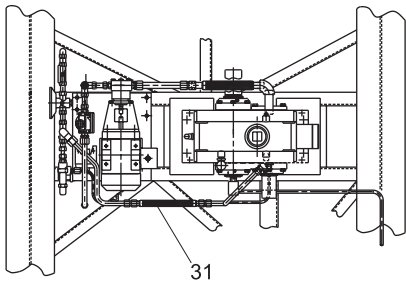
L - CLUTCH

LD03192



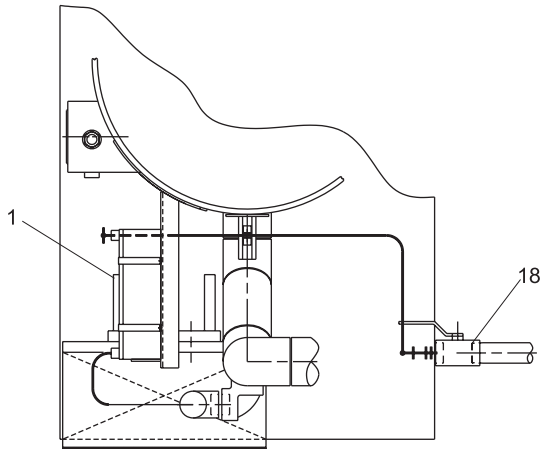
K - OIL RESERVOIR PIPING

LD03182



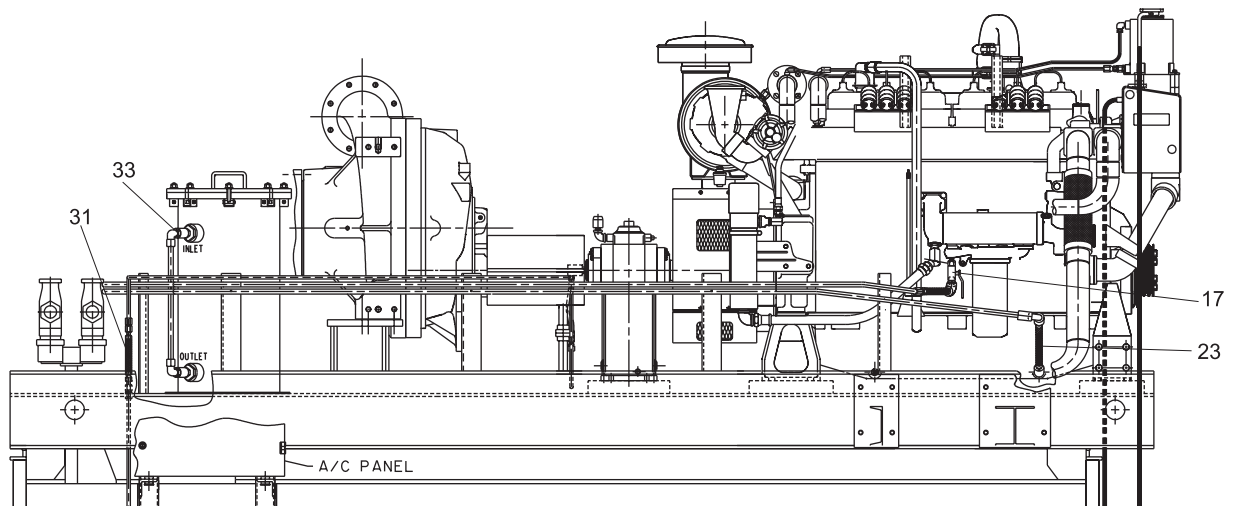
M - CLUTCH - TOP VIEW

LD03191



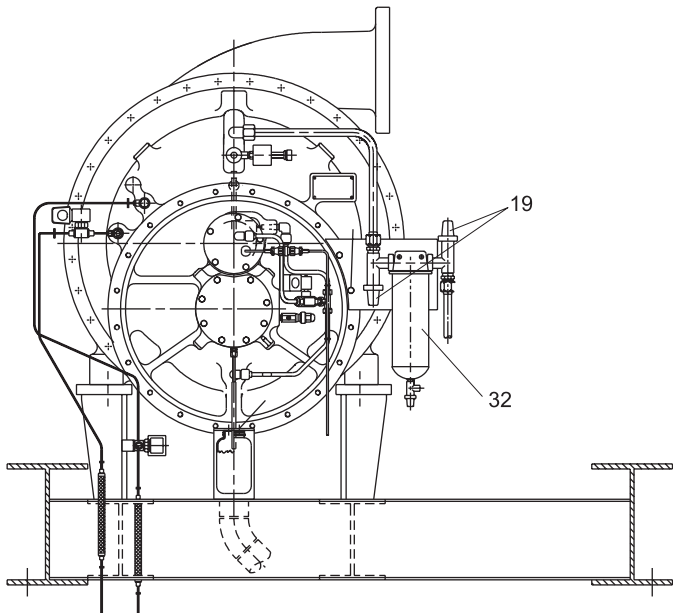
N - OIL COOLER

LD03186



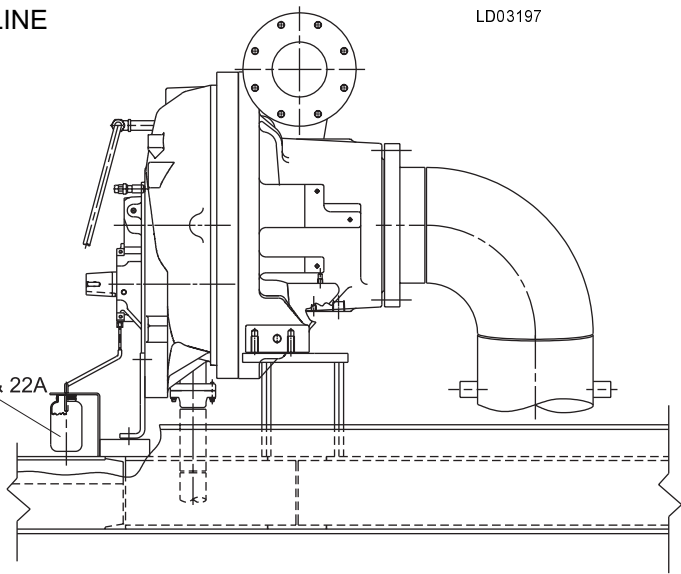
P - DRIVELINE

LD03197



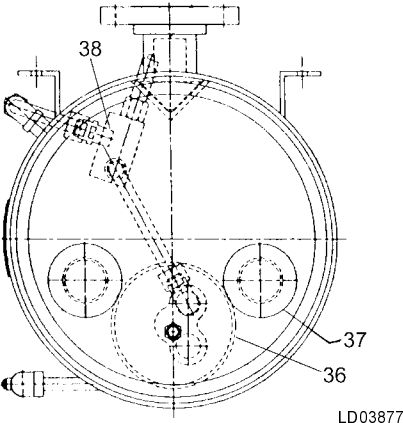
Q - OIL FILTER

LD03193



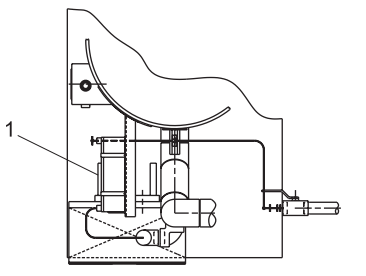
S - COMPRESSOR

LD03194



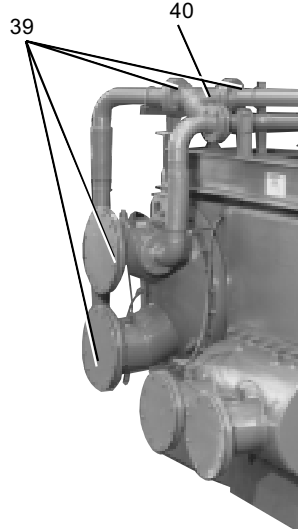
T - OIL RESERVOIR

LD03877



R - OIL COOLER

LD03183



28699A

U - COOLING SYSTEM

FIG. 2 – CONTINUED

ITEM NO.	DESCRIPTION	PART NUMBER	QUAN.	FIG. NUMBER
1	SENSOR,TEMPERATURE	025-29964-000	5	3-A
2	STRAP,GROUNDING	225-32812-003	1	3-A
3	HARNESS,SYSTEM WIRING	575-22839-231	1	3-A
4	BOX, JUNCTION	025-26204-000	1	3-A
5	COVER,JUNCTION BOX	025-26203-000	1	3-A
6	HARNESS,SYSTEM WIRING	575-22839-211	1	3-A
7	CONTACT,RECEPTACLE	025-28952-000	26	3-C
8	HARNESS,SYSTEM WIRING	575-22839-212	1	3-A
9	HARNESS,SYSTEM WIRING	575-22839-201	1	3-A
10	HARNESS,SYSTEM WIRING	575-22839-261	1	3-A
11	STRAP,GROUNDING	225-32812-004	1	3-A
12	HARNESS,SYSTEM WIRING	575-22839-202	1	3-A
13	HARNESS,SHIELDED CABLE	375-22839-414	1	3-A
14	HARNESS,SHIELDED CABLE	375-14172-423	1	3-B
15	SURPRESSOR	031-00808-000	3	3-F
16	HARNESS,SYSTEM WIRING	575-22839-224	1	3-A
17	HARNESS,SYSTEM WIRING	575-22839-222	1	3-A
18	HARNESS,SYSTEM WIRING	575-22839-223	1	3-A
19	TRANSFORMER, 3KVA	025-32073-000	1	3-A
20	HARNESS,SYSTEM WIRING	575-22839-251	1	3-A
21	HARNESS,SYSTEM WIRING	575-22839-252	1	3-A
22	HARNESS,SYSTEM WIRING	575-22839-253	1	3-A
23	HARNESS,SYSTEM WIRING	575-22839-254	1	3-A
24	HARNESS,SYSTEM WIRING	575-22839-233	1	3-B
25	HARNESS,SYSTEM WIRING	575-22839-204	1	3-A
26	HARNESS,SYSTEM WIRING	375-22839-441	1	3-A
27	HARNESS,SHIELDED CABLE	375-22839-435	1	3-D
28	HARNESS,SYSTEM WIRING	375-22839-442	1	3-D
29	HARNESS,SYSTEM WIRING	375-22839-443	1	3-A
30	HARNESS,SYSTEM WIRING	375-22839-444	1	3-A
31	HARNESS,SYSTEM WIRING	375-22839-445	1	3-A
32	HARNESS,SHIELDED CABLE	375-22839-406	1	3-D
33	HARNESS,SYSTEM WIRING	375-25277-401	1	3-A
34	HARNESS,SYSTEM WIRING	375-25277-402	1	3-A
35	HARNESS,SYSTEM WIRING	575-22839-262	1	3-A
36	CABLE,BATTERY CONNECTION	225-32971-001	1	3-E
37	CABLE,BATTERY CONNECTION	225-32972-001	1	3-E
38	CABLE,BATTERY CONNECTION	225-32972-002	1	3-E
39	CABLE,BATTERY CONNECTION	225-32975-003	1	3-A
40	HARNESS,SHIELDED CABLE	375-25277-413	1	3-A
41	SENSOR,VIBRATION TRANSMITTER	375-26542-000	1	3-D
42	HARNESS, WIRING	375-26543-000	1	3-D
43	HARNESS,SYSTEM WIRING	575-22839-203	1	3-A
44	HARNESS,SYSTEM WIRING	575-22839-221	1	3-B
45	HARNESS,SHIELDED CABLE	375-22839-404	1	3-A
46	HARNESS,SHIELDED CABLE	375-01739-001	1	3-A
47	HARNESS,SYSTEM WIRING	575-22839-243	1	3-A
48	HARNESS,SYSTEM WIRING	575-22839-241	1	3-A
49	HARNESS,SHIELDED CABLE	375-22839-423	1	3-D
50	HARNESS,SHIELDED CABLE	375-22839-433	1	3-D
51	HARNESS,SHIELDED CABLE	375-22839-426	1	3-D

FIG. 3 – SYSTEM WIRING COMPONENTS



CATERPILLAR
CONTROL
PANEL



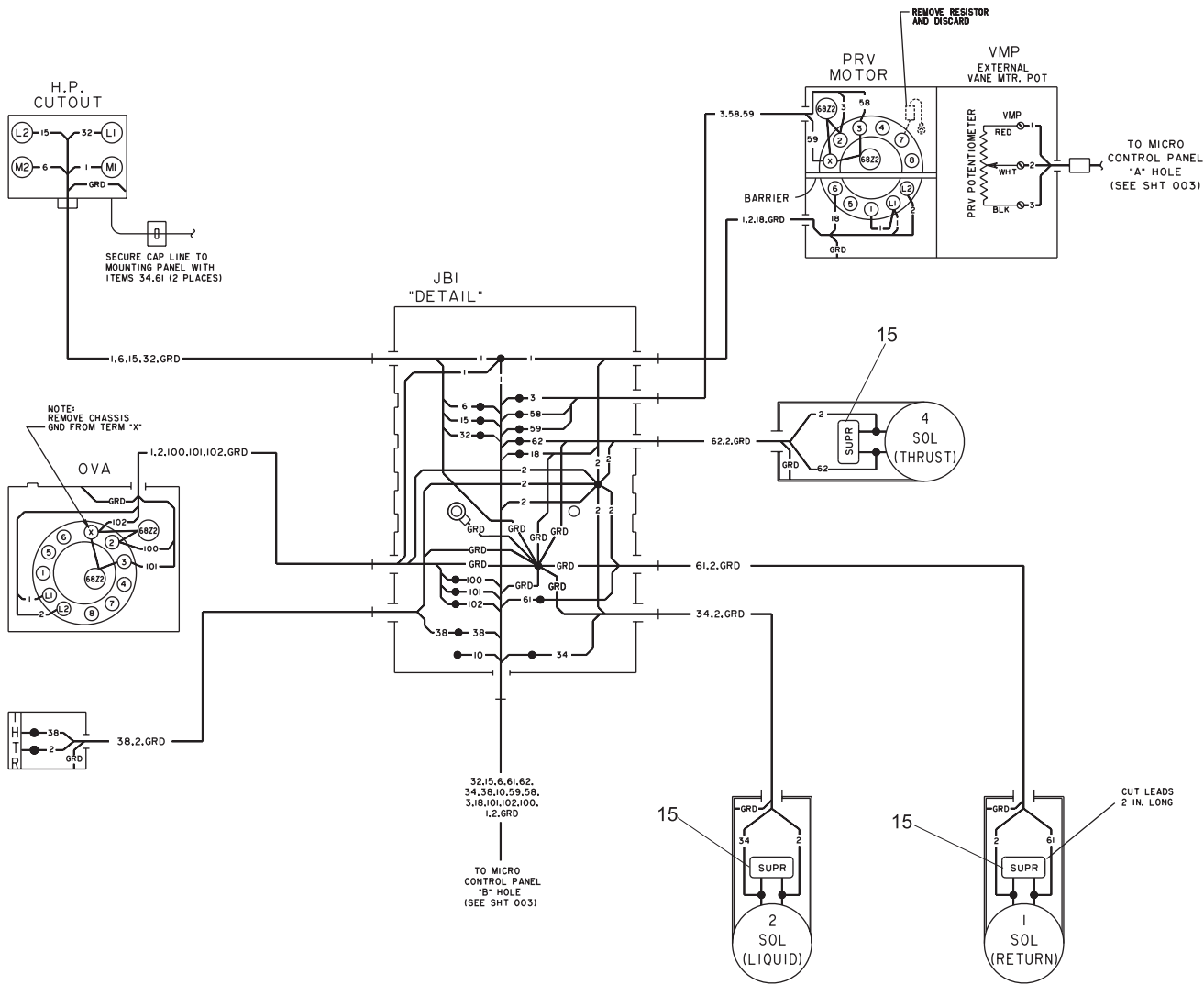
LD03199



TO CR3
ON ENGINE PNL.
(SEE SHT. 004)



LD03202



F - SOLENOIDS

LD03201

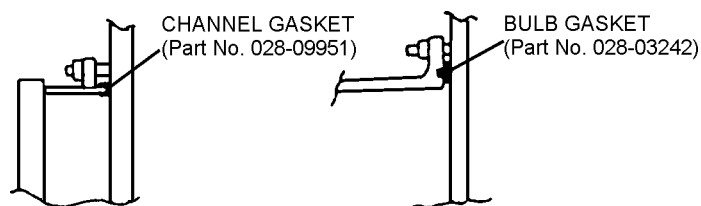
FIG. 3 – CONTINUED

COOLER TUBES

COOLER CODE	QUANT	PART NUMBER
MC	309	007-08416

CONDENSER TUBES

COND. CODE	QUANT	PART NUMBER
MC	473	007-08096

WATER BOX GASKETS

LD03203

COOLER WITH STANDARD COMPACT WATER BOXES
150 PSI

SHELL CODE	1-PASS		2-PASS		3-PASS	
	GASKET PART NUMBER	FEET REQUIRED	GASKET PART NUMBER	FEET REQUIRED	GASKET PART NUMBER	FEET REQUIRED
M	028-03242	18.0	028-03242	18.0	028-03242	18.0
			028-09951	3.5	028-09951	6.0

COOLER WITH MARINE WATER BOXES

SHELL CODE	1-PASS		2-PASS		3-PASS	
	GASKET PART NUMBER	FEET REQUIRED	GASKET PART NUMBER	FEET REQUIRED	GASKET PART NUMBER	FEET REQUIRED
M	028-03242	36.0	028-03242	27.0	028-03242	36.0
			028-09951	7.0	028-09951	12.0

CONDENSER WITH
STANDARD COMPACT WATER BOXES
150 PSI

SHELL CODE	1-PASS		2-PASS	
	GASKET PART NO.	FT. REQ'D.	GASKET PART NO.	FT. REQ'D.
M	028-03242	16.0	028-03242	16.0
			028-09951	3.0

CONDENSER WITH
MARINE WATER BOXES
150 PSI

SHELL CODE	1-PASS		2-PASS	
	GASKET PART NO.	FT. REQ'D.	GASKET PART NO.	FT. REQ'D.
M	028-03242	32.0	028-03242	24.0
			028-09951	5.0



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