SECTION 1. ILLUSTRATED PARTS LIST

The following recommended spare parts list (Table 1-1) is provided as a guide to the user for convenience in the maintenance of BK series crack sealing machines. All of the parts listed are available from BearCat Manufacturing, Inc.

Table 1-1. Recommended Spare Parts

Description	Part No.	Qty
Engine Oil Filter	FTR-80932	1
Engine Air Filter	FTR-80934	1
Diesel Fuel Filter – Engine Element	FTR-80930	1
Hydraulic Filter Element	FTR-22502	1
Product Pump Packing	RNG-80054	1
Hot-Oil Pump Packing	RNG-80297	1 set
Application Hose with Fittings	MSC-80418-Y	1
Wand Handle with Ball Valve	VLV-27083	1
Coupling Chain (only)	FIT-80017	1
Burner Nozzle, 2.25-60°	FIT-50164	1
Bus Bar Support	BRK-81182	1

The BK-250D Kracker™ and the BK-400D Kracker™ are similar in design and operation. The BK-250D Kracker™ is used for most of the figures in the Illustrated Parts List. Differences are noted in the parts list or difference drawings are provided in the applicable figure.

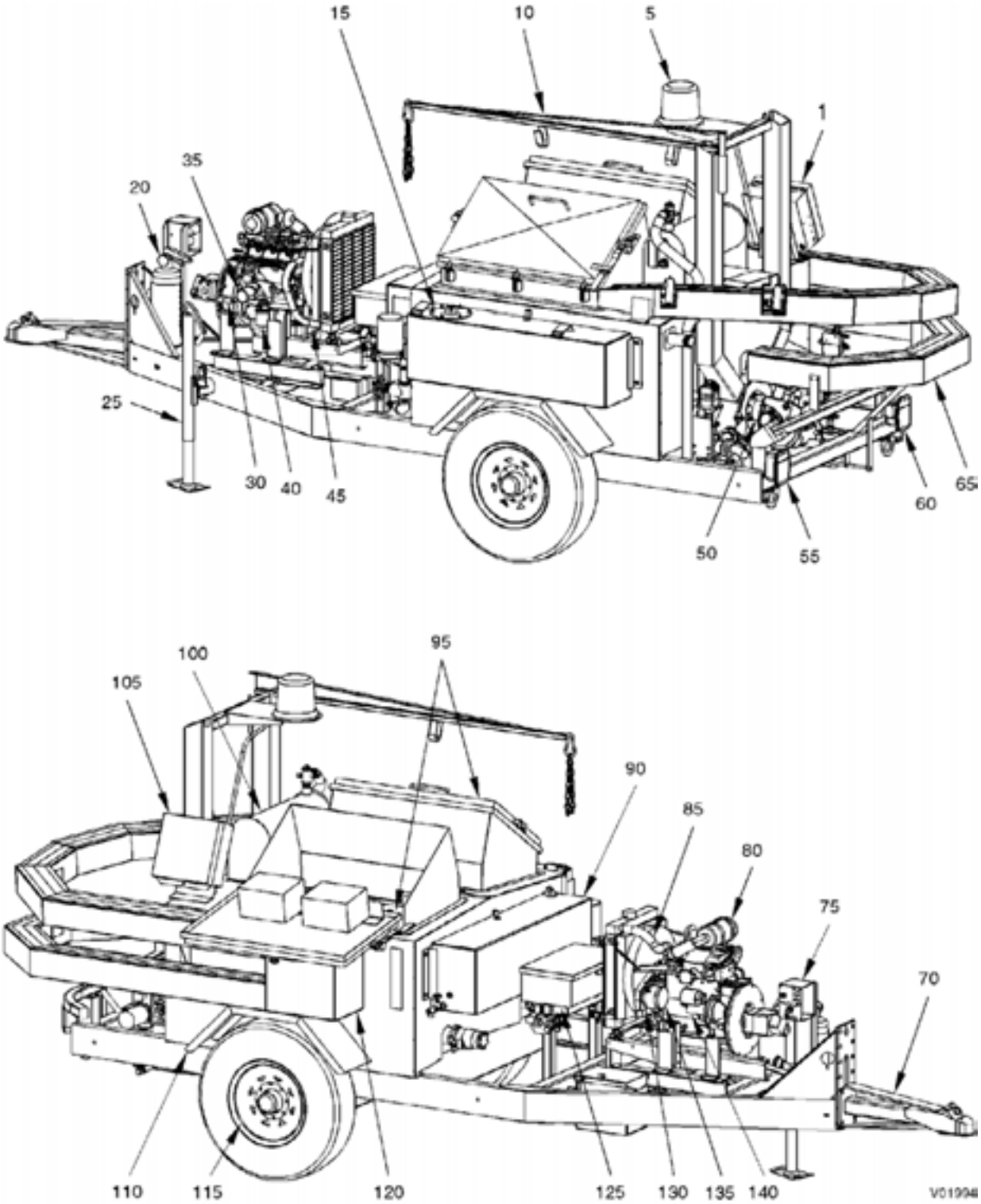

Figure 6-1. BK-250D Kracker

Fig	Item	Description	Part No.	Qty
6-1	1	Kracker (complete)	BK-250D	RF
	5	Beacon, Rotating	ELC-24215	1
	10	Hose Jib	BRK-80365	1
	15	Hydraulic Tank (BK-250D)	TNK-80242	1
		Hydraulic Tank (BK-400D)	TNK-80241	1
	20	Fire Extinguisher, 10-lb	MSC-80009	1
	25	Jack, 5,000-lb	MCH-80104	1
	30	Diesel Engine, Isuzu (3LB1-EAO1)	PMP-81008	1
	35	Filter, Oil (3LB1-EAO1)	FTR-80932	1
	40	Filter, Fuel (3LB1-EAO1)	FTR-80930	1
	45	Radiator Hose, Bottom	PIP-81019	1
	50	Diesel Burner Assembly (see Figure 1-7)	PTM-80690	1
	55	Tail Light, Left-Hand	ELC-24306	1
	60	Tail Light, Right-Hand	ELC-24307	1
	65	Heated Hose Trough (BK-250D)	HSG-80531	1
		Heated Hose Trough (BK-400D)	HSG-80530	1
		• Clamps, Heated Hose Trough	HSG-80533	AR
		• Rubber 1/8 in. X 3 1/4 in.	MSM-80538	AR
		• Hot-Oil Tube, Upper (BK-250D)	HSG-80564	1
		Hot-Oil Tube, Upper (BK-400D)	HSG-81211	1
		• Hot-Oil Tube, Lower (BK-250D)	HSG-80563	1
		Hot-Oil Tube, Lower (BK-400D)	HSG-81210	1
	70	Hitch, Extended, 2 5/16 in. Ball	FAS-80127	1
	75	Control Panel Assembly W/Gauges	HSG-81057	1
	80	Filter, Air (3LB1-EAO1)	FTR-80934	1
	85	Radiator Hose, Top	PIP-81020	1
	90	Diesel Tank (BK-250D)	TNK-80243	1
		Diesel Tank (BK-400D)	TNK-80244	1
	95	Sealant Loading Door Assembly	HSG-80271	2
	100	Hot-Oil Expansion Tank	TNK-71201	1
	105	Control Box Assembly (see Figure 1-8)	HSG-81019	1
	110	Fender (BK-250D)	GRD-81069	2
		Fender (BK-400D)	GRD-81060	2
	115	Rim, White	MSC-80126	AR
	120	Insulated Box	HSG-49896	1
	125	Tool Box	HSG-80030	1
	130	Fan Belt	PTM-80668	1
	135	Alternator	MSC-80663	1
	140	Starter	MSC-80622	1

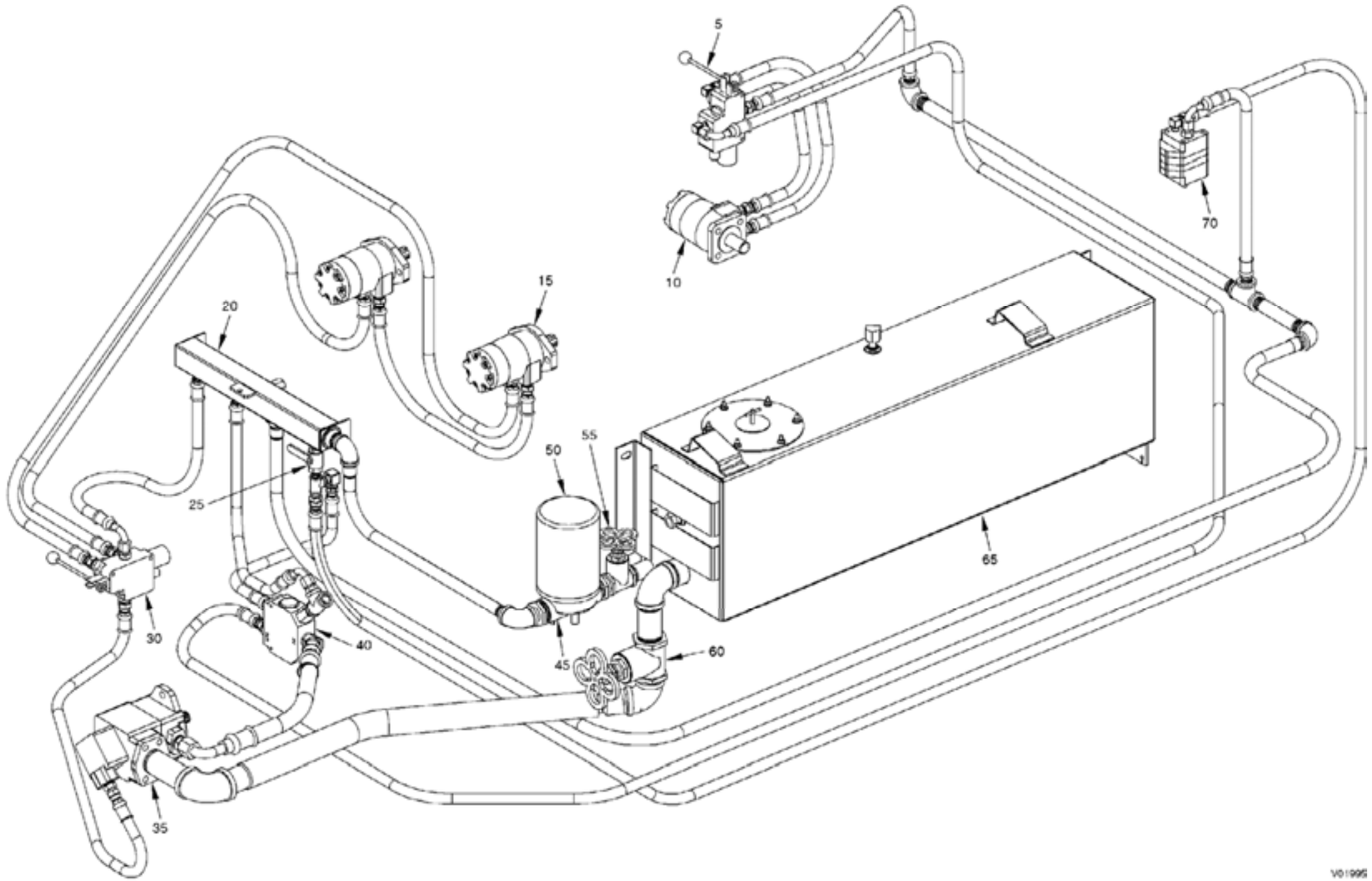

Figure 6-2. Kracker Hydraulic System

Fig	Item	Description	Part No.	Qty
6-2		Hydraulic System		RF
	5	Valve, Directional Control	VLV-80005	1
	10	Hydraulic Motor, Product Pump	PMP-80309	1
	15	Auger Motor	PMP-80355	2
	20	Hydraulic Manifold	MSC-81015	1
	25	Valve, 3/8 in. Ball	VLV-29202	1
	30	Valve, Directional Control	VLV-80005	1
	35	Hydraulic Pump (V2010)	PMP-80002	1
	40	Priority Valve	VLV-80004	1
	45	Filter Base	FTR-22503	1
	50	Filter, Hydraulic	FTR-22502	1
	55	Valve, 1 in. Gate	VLV-29242	1
	60	Valve, 1 1/2 in. Gate	VLV-29260	1
	65	Hydraulic Tank (BK-250D)	TNK-80242	RF
		Hydraulic Tank (BK-400D)	TNK-80244	RF
	70	Hydraulic Motor, Transfer-Oil (Hot-Oil) Pump	PMP-80322	1

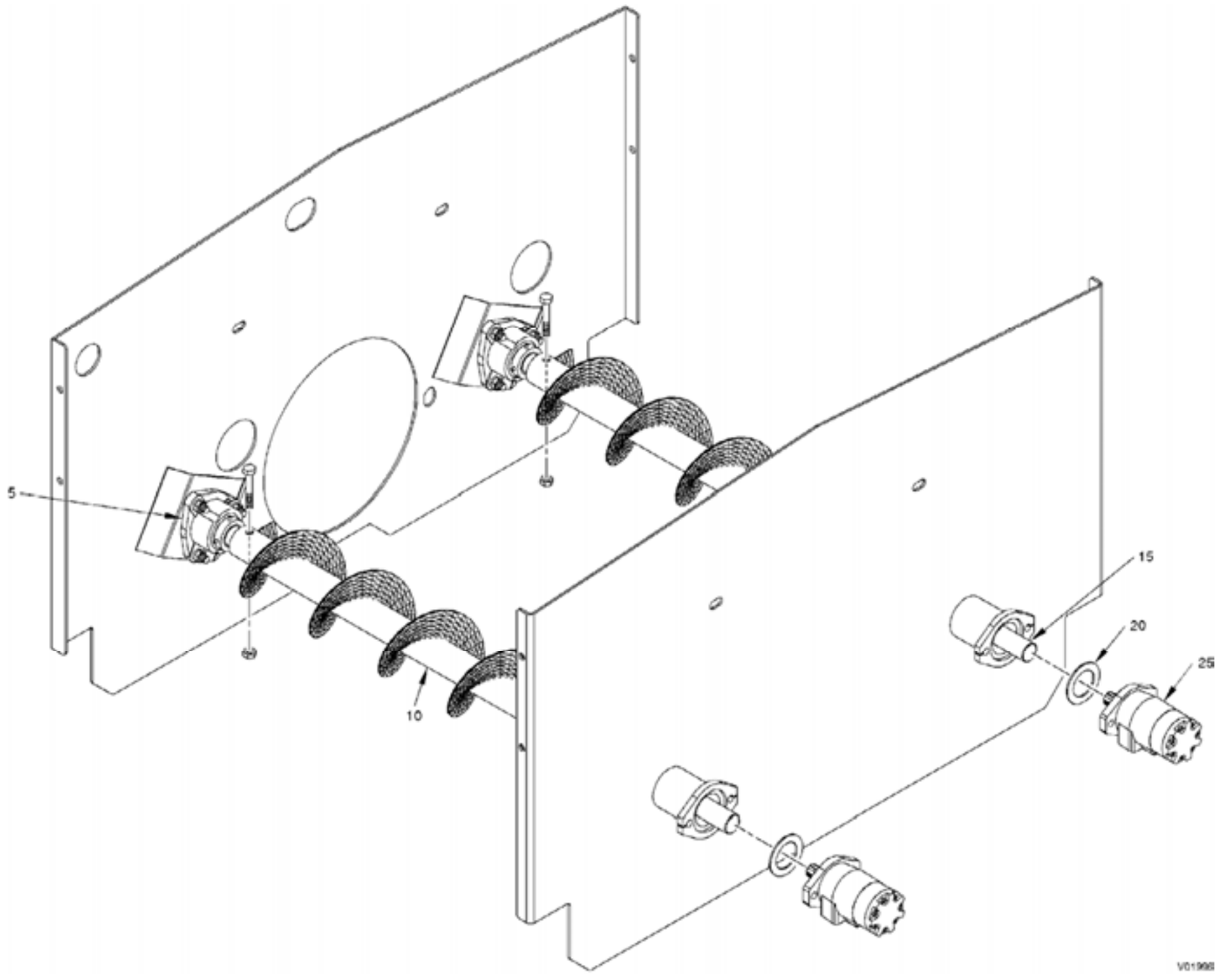

Figure 6-3. Circulating Auger Assembly

Fig	Item	Description	Part No.	Qty
6-3		Circulating Auger Assembly		RF
	5	Bearing	PTM-80353	2
	10	Auger 8 in. (BK-250D)	MCH-80348	2
		Auger 8 in. (BK-400D)	MCH-80426	2
	15	Auger Shaft (BK-250D)	PTM-80345	2
		Auger Shaft (BK-400D)	PTM-80425	2
	20	Gasket	RNG-29054	2
	25	Auger Motor	PMP-80355	RF

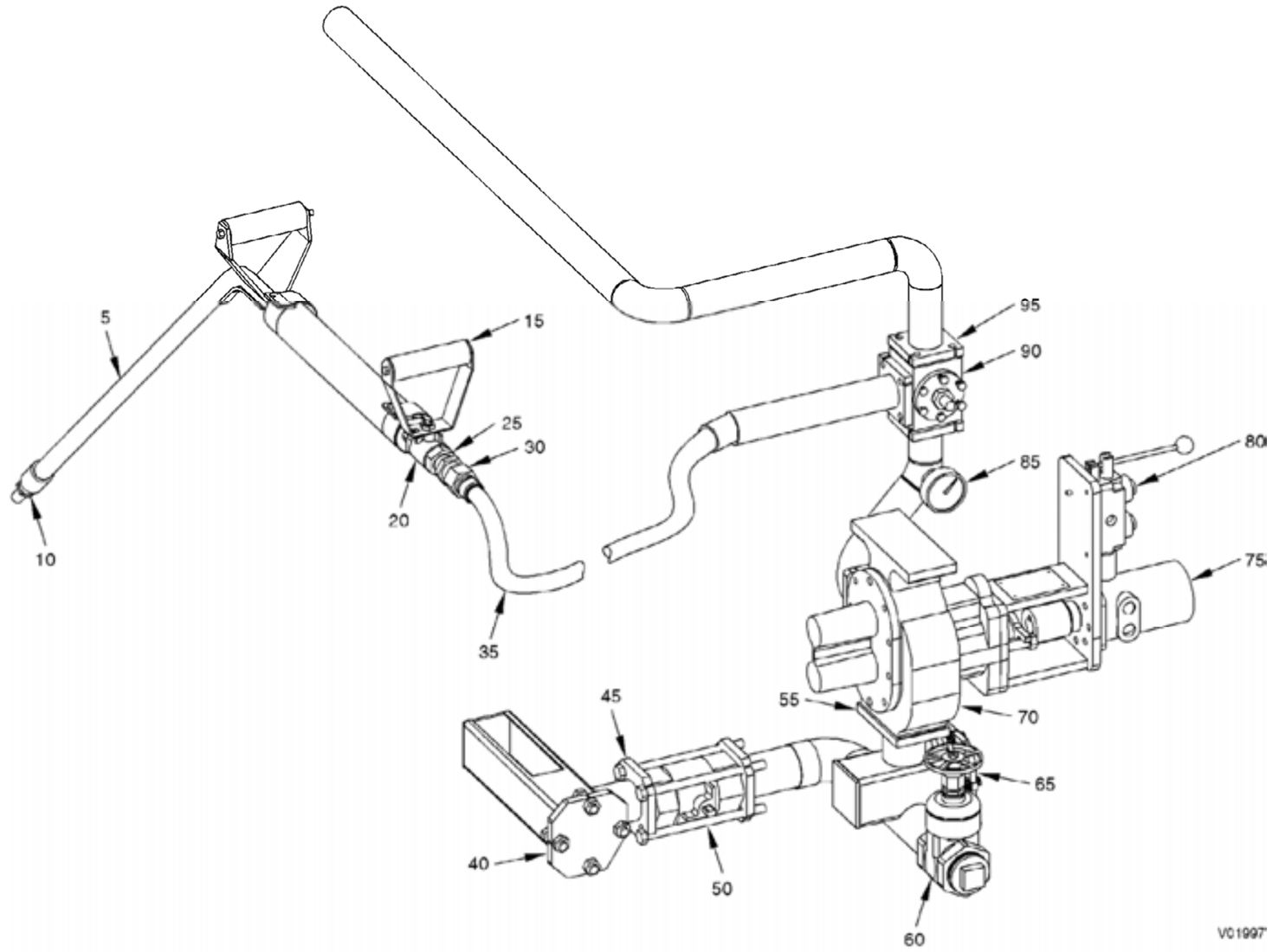

Figure 6-4. Circulation Plumbing

Fig	Item	Description	Part No.	Qty
6-4		Circulation Plumbing		RF
	5	Application Wand Assembly	MSC-80409	1
	10	• Wand Tip (Steel)	MSC-80408	1
	15	• Handle	GRD-27083	1
	20	• Valve, Wand	VLV-29229	1
	25	• Quick Connect, Male	FIT-29741	1
	30	• Quick Connect, Female	FIT-29740	1
	35	Application Hose	MSC-80418-Y	1
	40	Gasket	RNG-29046	1
	45	Gasket, 2 in.	RNG-29054	2
	50	Valve, Tank	VLV-29272	1
	55	Gasket, 2 in.	RNG-29054	2
	60	Valve, Drain	VLV-29270	1
	65	Strainer, Kracker™	HSG-80234	1
		• Screen, Strainer	FTR-80222	1
		• Gasket	RNG-29046	1
	70	Product Pump, BC-110 (see Figure 1-5)	PMP-81108	1
	75	Hydraulic Motor, Product Pump	PMP-80309	1
	80	Valve, Directional Control	VLV-80005	1
	85	Product Temperature Gauge	MTR-80311	1
	90	Application/Recirculation Valve	VLV-80050	1
	95	Gasket, 1 1/2 in.	RNG-29047	3

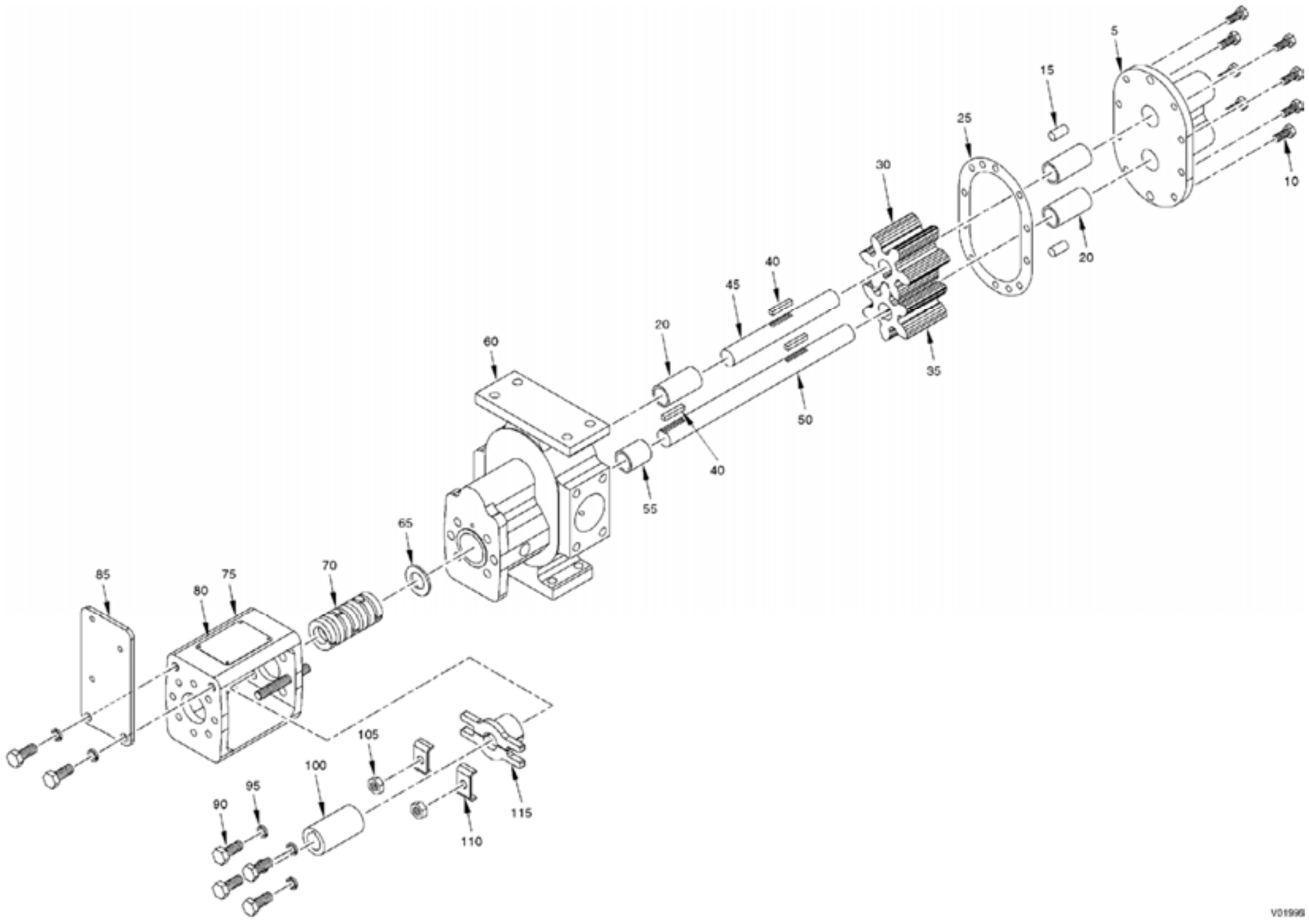

Figure 6-5. Product Pump

Fig	Item	Description	Part No.	Qty
6-5	–1	Product Pump, BC-110	PMP-81108	RF
	5	Face Plate	HSG-31051	1
	10	Hex Bolt 3/8 in. – 16 X 1 in.	FAS-28731	8
	15	Dowel Pin	FAS-33655	2
	20	Bushing, Long	PTM-74011	3
	25	Gasket	RNG-29994	1
	30	Gear, Right-Hand	PTM-30005	1
	35	Gear, Left-Hand	PTM-30004	1
	40	Key, 0.25 in. X 0.25 in. X 1.5 in.	PTM-31003	3
	45	Shaft, Pump Idler	PTM-31002	1
	50	Shaft, Pump Drive	PTM-31001	1
	55	Bushing, Short	PTM-74012	1
	60	Housing	HSG-31050	1
	65	Washer, Packing	FAS-80294	1
	70	Packing	RNG-80059	1
	75	Bracket, BC-110 Motor/Valve	HSG-80315	1
	80	Plate, Warning	MSM-33710	1
	85	Mount, Valve	BRK-80319	1
	90	Hex Bolt 1/2 in. – 13 X 1 in.	FAS-28760	6
	95	Washer, Lock 1/2 in.	FAS-28649	6
	100	Coupling	PTM-80310	1
	105	Nut, Hex 1/2 in. – 13	FAS-28504	2
	110	Retainer	BRK-80011	2
	115	Packing Gland	PMP-33740	1

NOTE: A dash (–) before the item number indicates the item is not illustrated on that figure.

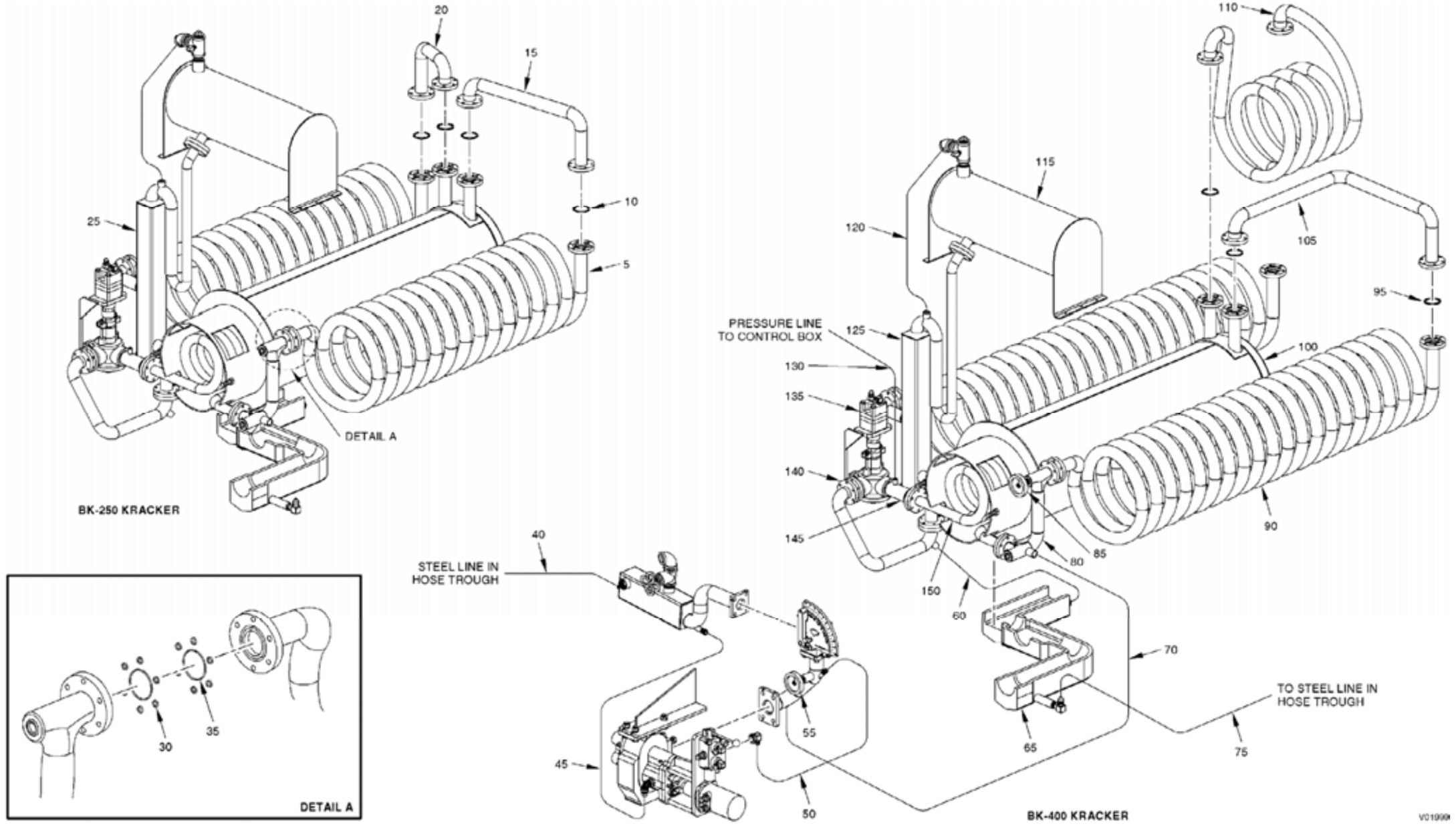

Figure 6-6. Hot-Oil System

Fig	Item	Description	Part No.	Qty
6-6		Hot-Oil System		RF
	5	Coiling (BK-250D)	MSC-71207	2
	10	O-Ring, Viton (BK-250D)	RNG-71032	9
	15	Line, Cross-Over (BK-250D)	MSC-71214	1
	20	Feed Line, Cross-Over (BK-250D)	MSC-71215	1
	25	Hot-Oil Return and Suction Assembly (BK-250D)	MSC-71202	1
	30	O-Ring, Bolt-to-Flange	RNG-71031	24
		Washer	FAS-28618	12
	35	O-Ring, Viton	RNG-71032	4
	40	Steel Line (Hose Trough)		AR
	45	S/S Hose 3/8 in. X 18 in.	MSC-80371	1
	50	S/S Hose 3/8 in. X 18 in.	MSC-80371	1
	55	Product Temperature Gauge	MTR-80311	RF
	60	S/S Hose 3/8 in. X 18 in.	MSC-80371	1
	65	Manifold, Lower	MSC-80391	1
	70	S/S Hose 3/8 in. X 1.04 ft	MSC-80370	1
	75	S/S Flex Hose 34 in.	MSC-82080	1
	80	Coiling Supply Line	MSC-71206	1
	85	Hot-Oil Temperature Gauge	MTR-80311	1
	90	Coiling (BK-400D)	MSC-71208	2
	95	O-Ring, Viton (BK-400D)	RNG-71032	11
	100	Flue	HSG-71209	1
	105	Line, Cross-Over (BK-400D)	MSC-71216	1
	110	Coiling, Extension (BK-400D)	MSC-71218	1
	115	Hot-Oil Expansion Tank	TNK-71201	RF
	120	Vent Line (3/8 in. Brake Line)		AR
	125	Hot-Oil Return and Suction Assembly (BK-400D)	MSC-71217	1
	130	Pressure Line to Control Box (3/8 in. Brake Line)		AR
	135	Hot-Oil Pump and Motor Assembly	MSC-71205	1
	140	Hot-Oil Pump Suction Line	MSC-71203	1
	145	Adaptor, Outlet	MSC-71204	1
	150	Coiling, Heat Flue	MSC-71025	1

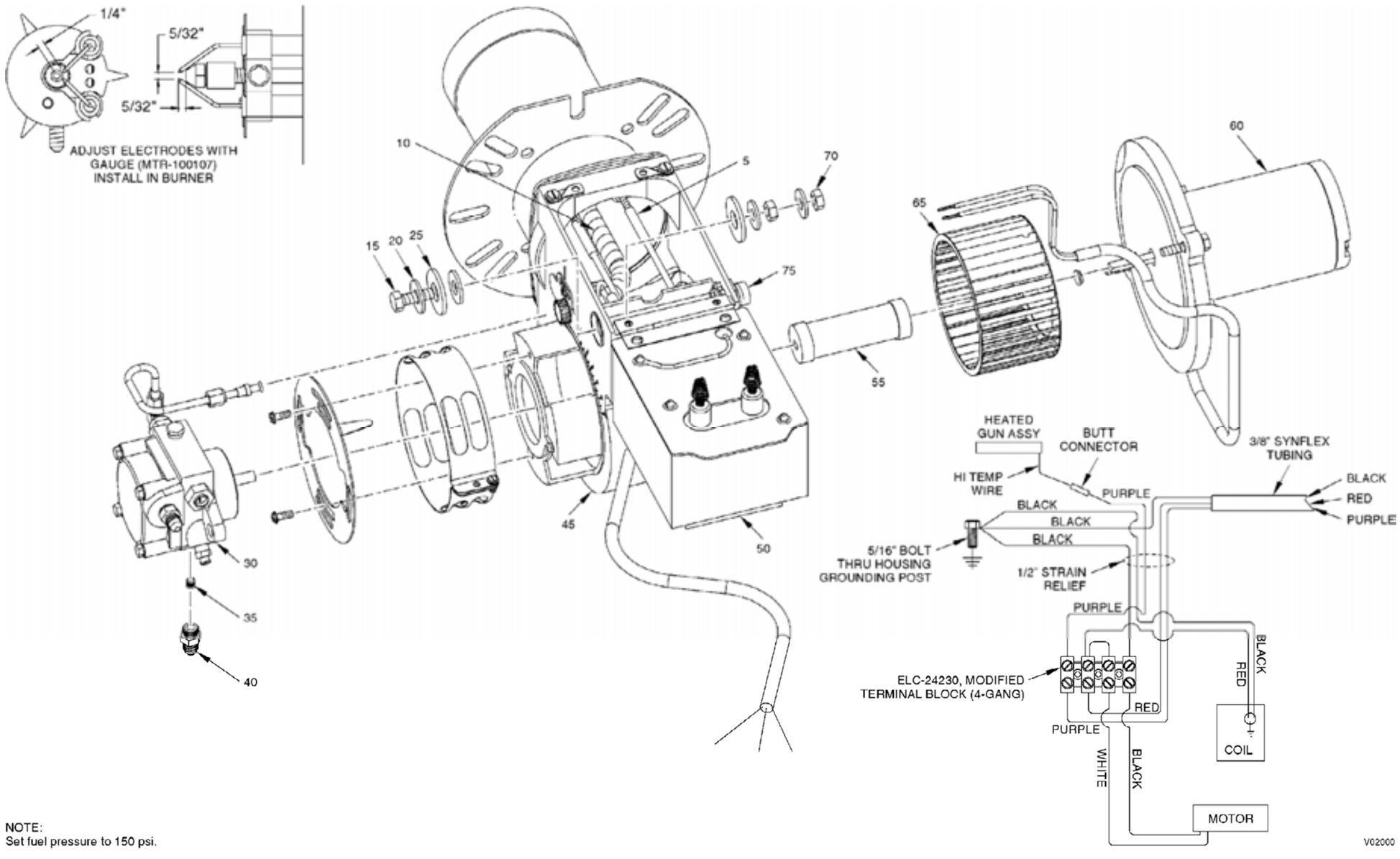

Figure 6-7. Diesel Burner Assembly

Fig	Item	Description	Part No.	Qty
6-7		Diesel Burner Assembly	PTM-80690	RF
	5	Electrodes	ELC-24954	1
	10	Gun Assembly, Modified	ELC-80683	1
		• Fuel Spray Nozzle	FIT-80686	1
	15	Hex Bolt 5/16 in. – 18 X 1 in.	FAS-28716	1
	20	Washer, Flat 5/16 in.	FAS-28633	4
	25	Washer, Flat 7/16 in.	FAS-28635	2
	30	Fuel Pump	PMP-81058	1
	35	Soc. Hd. Pipe Plug 1/16 in.	Provided W/Burner	1
	40	Fitting	4MJ-4MP	2
	45	Burner Assembly, Modified, 2.5 gal/hr	PTM-80690	1
	50	Ignition Coil W/Lid (custom)	ELC-80699	1
	55	Coupler, Pump/Fan	FIT-80688	1
	60	Electric Motor, Modified	ELC-80696	1
	65	Blower Cage	MCH-80690	1
	70	Nut, Hex 5/16 in. – 18	FAS-28501	2
	75	Strain Relief 1/2 in.	ELC-24421	1

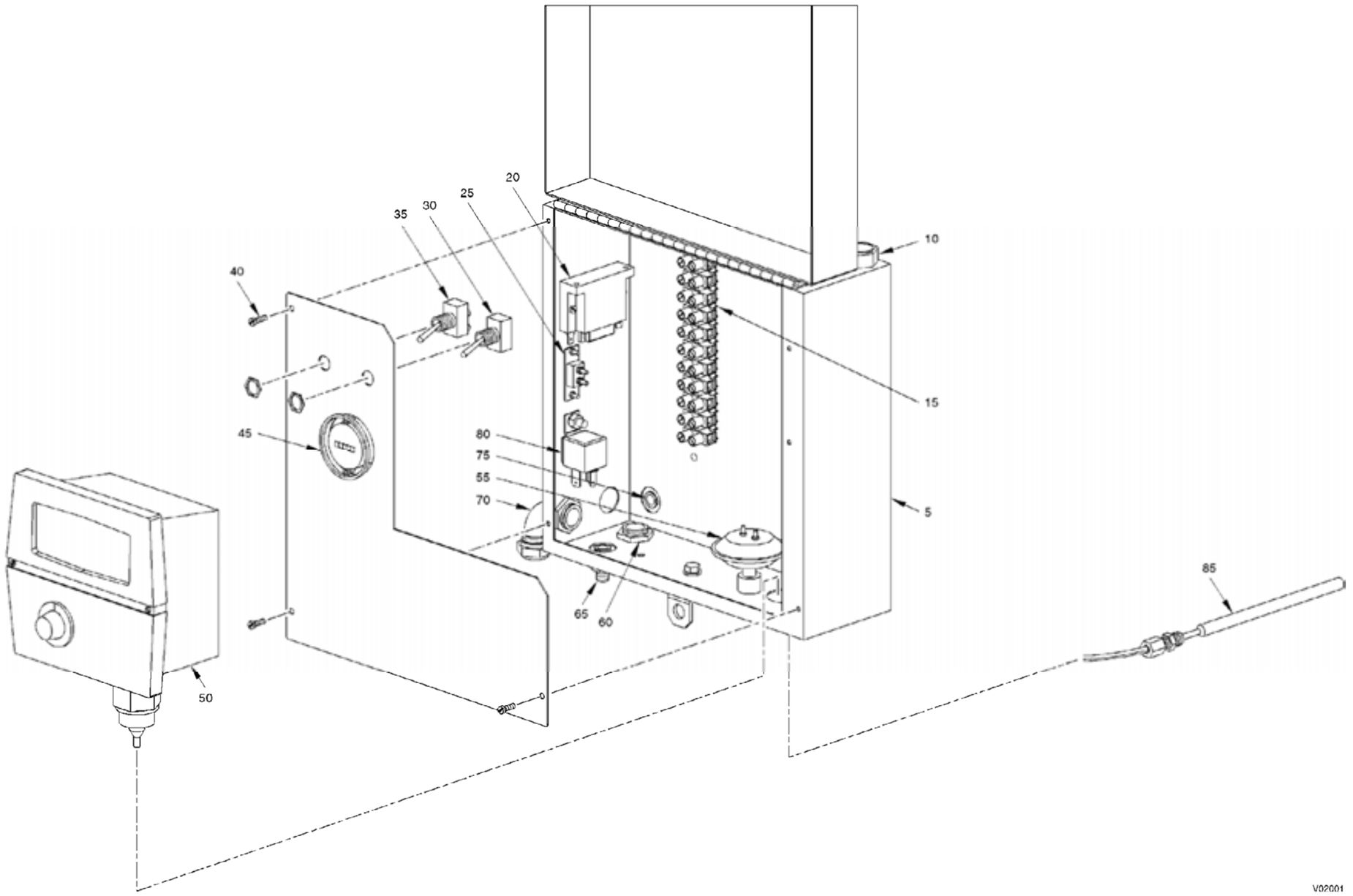

Figure 6-8. Control Box Assembly

Fig	Item	Description	Part No.	Qty
6-8		Control Box Assembly	HSG-81019	RF
	5	Control Box	HSG-81017	1
	10	Conduit Connector 1/2 in. NPT – 1/2 in.	ELC-24408	1
	15	Terminal Block 12-Gang	ELC-24230	1
		Screw 8 – 32 X 3/4 in.	FAS-25814	3
		Nut, Hex 8 – 32	FAS-25856	6
	20	Timer Capsule	ELC-80427	1
		Screw 6 – 32 X 1/2 in.	FAS-25760	2
		Nut, Hex 6 – 32	FAS-28551	2
	25	Circuit Breaker, 30 Amp	ELC-24290	1
		Screw 6 – 32 X 1/2 in.	FAS-25760	2
		Nut, Hex 6 – 32	FAS-28551	2
	30	Switch, Single Pole ON-OFF	ELC-24275	1
	35	Switch, Double Pole ON-OFF	ELC-24267	1
	40	Screw 10 X 1/2 in.	FAS-25833	3
	45	Hour Meter	MTR-80712	1
	50	Temperature Control W/Probe	MTR-80702	1
	55	Pressure Switch	ELC-80705	1
	60	Adaptor, 1/2 in. NPT – 1/2 in. Flex	ELC-24425	1
	65	Fitting	4MP-6CT	1
	70	Adaptor, 1/2 in. NPT – 1/2 in. Flex 90-Degree	ELC-24435	1
	75	Fitting	4MP-6CT	1
	80	Relay, 70 Amp	ELC-24270	1
		Hex Bolt 1/4 in. – 20 X 3/4 in.	FAS-28701	1
		Washer, Flat 1/4 in.	FAS-28632	1
		Washer, Lock 1/4 in.	FAS-28645	1
		Nut, Hex 1/4 in. – 20	FAS-28500	1
	85	Temperature Control Probe	MTR-80702-A	1