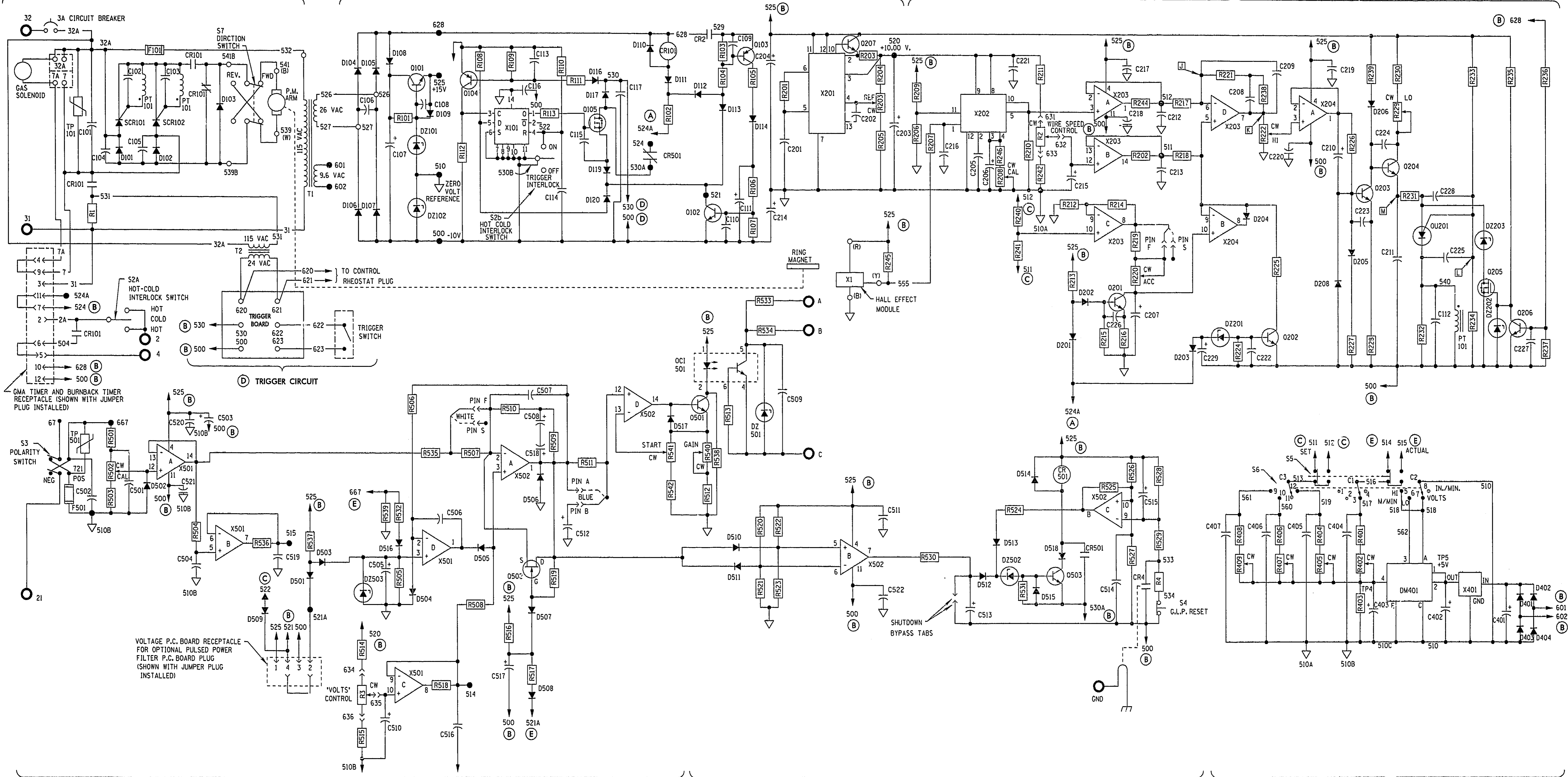


(A) INPUT AND MOTOR POWER CIRCUIT

(B) CONTROL POWER SUPPLY AND RELAY CIRCUIT

(C) MOTOR CONTROL CIRCUIT



POWER CIRCUIT				CONTROL CIRCUIT				METER CIRCUIT				VOLTAGE CIRCUIT				SHUTDOWN CIRCUIT				METER CIRCUIT			
C101	.005/1400	D117	1A	C201	.022/25	R208	100K OHM TRIMMER	C401	500 MFD	C501	.1/100	O501	2N4123	R525	4.7K OHM	R1	2 OHM 50W	A	INPUT CABLE CONNECTION				
C102	.047/100	D119	1A	C202	.022/25	R209	33K OHM	C402	4.7 MFD	C502	.005/1400	O502	2N4857	R526	22K OHM	R2	10K OHM 2W POT.	C	POWER OR SIGNAL SOURCE POINT				
C103	.047/100	D120	.15A	C203	18/15	R210	10K OHM	C403	27 MFD	C503	4.7/35	O503	MPSA42	R527	22K OHM	R3	10K OHM 2W POT.	F	REMOVABLE CONNECTION				
C104	.005/1400	F101	4/10 SLOW BLOW FUSE	C204	4.7/35	R211	5.6K OHM	C404	.022 MFD	C504	4.0/50	X501	I.C. QUAD OP-AMP	R528	22K OHM	R4	22K OHM	B	COMMON CONNECTION				
C105	.005/1400	F102	15K OHM	C205	.0033/200	R212	15K OHM	C405	500 OHM	C505	4.7/50	X502	I.C. QUAD OP-AMP	R529	2.2K OHM	R5	22K OHM	B & D	THRU G SOURCE POINT CIRCUIT LOCATION				
C106	.15/200	R101	330 OHM	C206	.33/50	R213	47K OHM	C406	10 OHM	C506	.022/25	TP501	TRANSIENT PROTECTOR	R530	27K OHM	CR2	WELD CURRENT-REED SWITCH	F	OP - AMP = LM 224				
C107	150/50	R102	10 OHM	C207	18/15	R214	15K OHM	C407	D401	C507	.022/25	R501	44.2K OHM 1/4W 1%	R531	100K OHM	S1	SPST TRIGGER SWITCH	B	REGULATOR = LM 723				
C108	.022/25	R103	2.2K OHM	C208	4/50	R215	100K OHM	C408	1A	C508	39/20	R502	500 OHM TRIMMER	R532	27K OHM	S2	CENT. OFF INTERLOCK SWITCH	F	F/V CONVERTER = LM 2907				
C109	.022/25	R104	15K OHM	C209	.04/100	R216	1K OHM	C409	VOLTAGE REGULATOR	C509	.022/25	R503	4.75K OHM 1/4W 1%	R533	10K OHM	S3	DPDT POLARITY SWITCH	B & D	* 1/2 WATT UNLESS OTHERWISE SPECIFIED.				
C110	.022/25	R105	1K OHM	C210	2.7/50	R217	1K OHM	C410	DM401 DIGITAL METER	C510	1.8/20	R504	100K OHM	R534	100 OHM	S4	SPST G.L.P. RESET SWITCH	F	REGULATOR = LM 723				
C111	2.7/50	R106	10K OHM	C211	.15/200	R218	1K OHM	C411	R401 24.3K OHM 1/4W 1%	C511	.022/25	R505	100K OHM	R535	1K OHM	S5	3 POLE VOLTS-SPEED SELECTOR SWITCH	F	DUAL 'D' FLIP FLOP = MC14013B				
* C112	.01/100	R107	330 OHM	C212	.022/25	R219	33K OHM	C412	R402 2K OHM TRIMMER	C512	4.7/35	R506	27K OHM	R536	270 OHM	S6	DPDT DIRECTION SWITCH	B					
C113	.022/25	R108	22K OHM	C213	.022/25	R220	50K OHM TRIMMER	C413	R403 2.8K OHM 1/4W 1%	C513	27/35	R507	15K OHM	R537	33K OHM	S7	DPDT TRIGGER SWITCH	F					
C114	.022/25	R109	47K OHM	C214	4.7/35	R221	15K OHM	C414	R404 2K OHM TRIMMER	C514	.022/50	R508	10K OHM	R538	56K OHM	S8	SPST SET-ACTUAL SWITCH	F					
C115	.022/25	R110	22K OHM	C215	18/15	R222	10K OHM TRIMMER	C415	R405 5.74K OHM 1/4W 1%	C515	1/35	R509	2.2K OHM	R539	27K OHM	S9	POWER SUPPLY TRANSFORMER	F					
C116	.022/25	R111	15K OHM	C216	100pf/100	R223	33K OHM TRIMMER	C416	R406 1.9K OHM TRIMMER	C516	.022/25	R510	2.7MEG OHM	R540	5K OHM TRIMMER	S10	HALL EFFECT MODULE	F					
C117	.15/200	R112	15K OHM	C217		R224	100K OHM	C417	R407 500 OHM TRIMMER	C517	47/50	R511	4.7K OHM	R541	2K OHM TRIMMER	S11		F					
D101	16A	R113	100 OHM	C218		R225	1K OHM	C418	R408 61.9K OHM 1/4W 1%	C518	39/20	R512	1K OHM	R542	5.6K OHM	S12		F					
D102	16A	R226	3PTD 24 VDC	C219		R226	13.7K OHM	C419	R409 5K OHM TRIMMER	C519		R513	1K OHM										
D103	16A	SCR101	12A, 400V	C220		R227	5.6K OHM			C520		R514	5.6K OHM										
D104	1A	SCR102	12A, 400V	C221		R228	10K OHM			C521		R515	1.8K OHM										
THRU	1A	O101	2N5655	C222		R229	10K OHM TRIMMER			C522		R516	100K OHM										
D108	.15A	O102	2N5655	C223		R230	22K OHM			C523		R517	1K OHM										
D109	.15A	O103	MPS A92	C224		R231	15 OHM			C524		R518	270 OHM										
D110	1A	O104	2N4125	C225		R232	100 OHM			C525		R519	10K OHM										
D111	1A	O105	BS170	C226		R233	270 OHM			C526		R520	15K OHM										
D112	.15A	PT101	1.111 PULSE TRANS.	C227		R234	500 OHM TRIMMER			C527		R521	15K OHM										
D113	1A	TP101	TRANSIENT PROTECTOR	C228		R235	10K OHM			C528		R522	56K OHM										
D114	1A	X101	I.C. DUAL 'D' FLIP FLOP	C229		R236	15K OHM			C529		R523	330K OHM										
D116	.15A	DZ101	15V, 5W	C230		R237	10K OHM			C530		R524	22K OHM										
		DZ102	10V, 5W	C231		R238	1M OHM			OC1501		R525	4.7K OHM										