

Figure 13-4 Regulated Power Supply Diodes

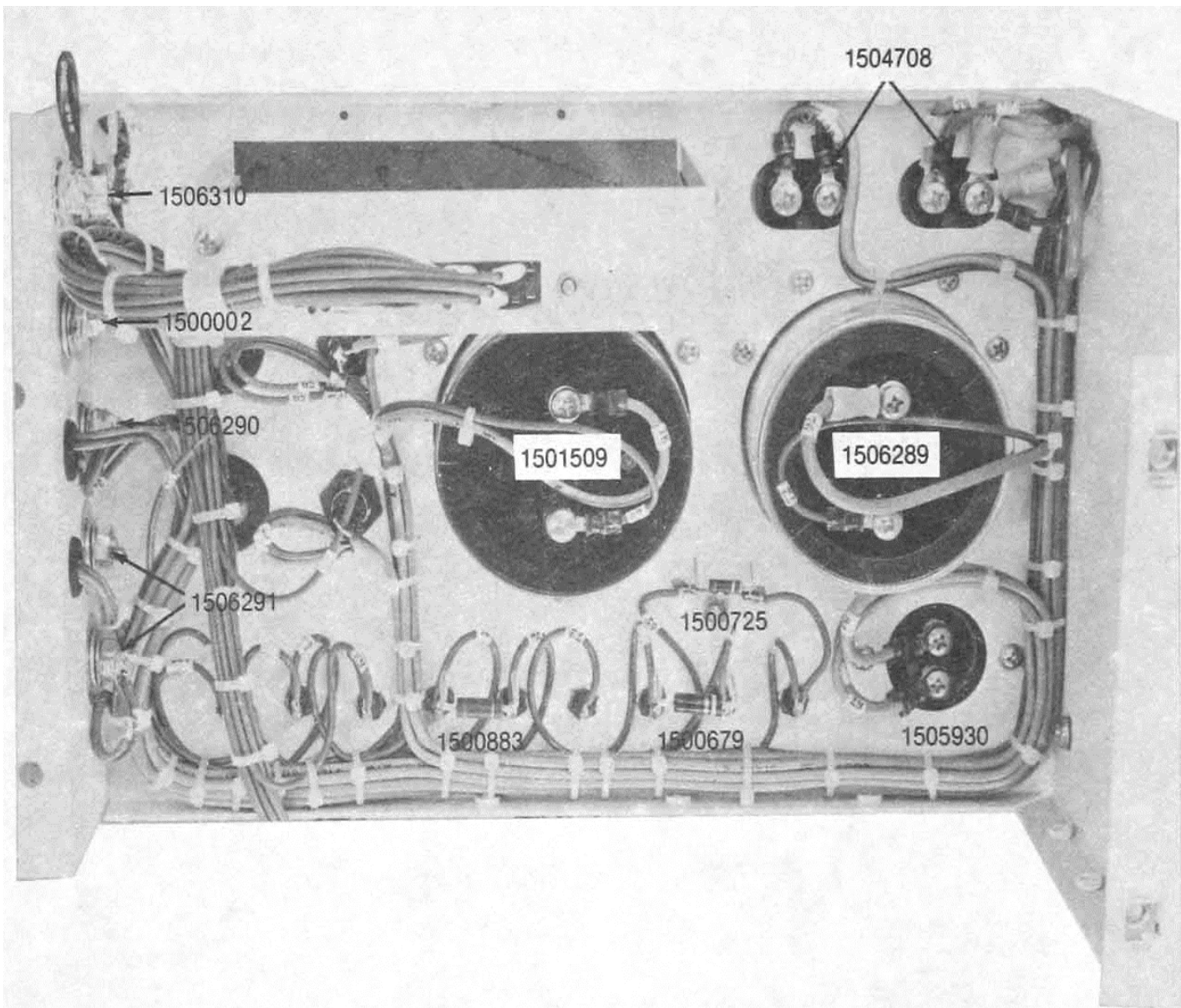


Figure 13-5 Regulated Power Supply Inside View

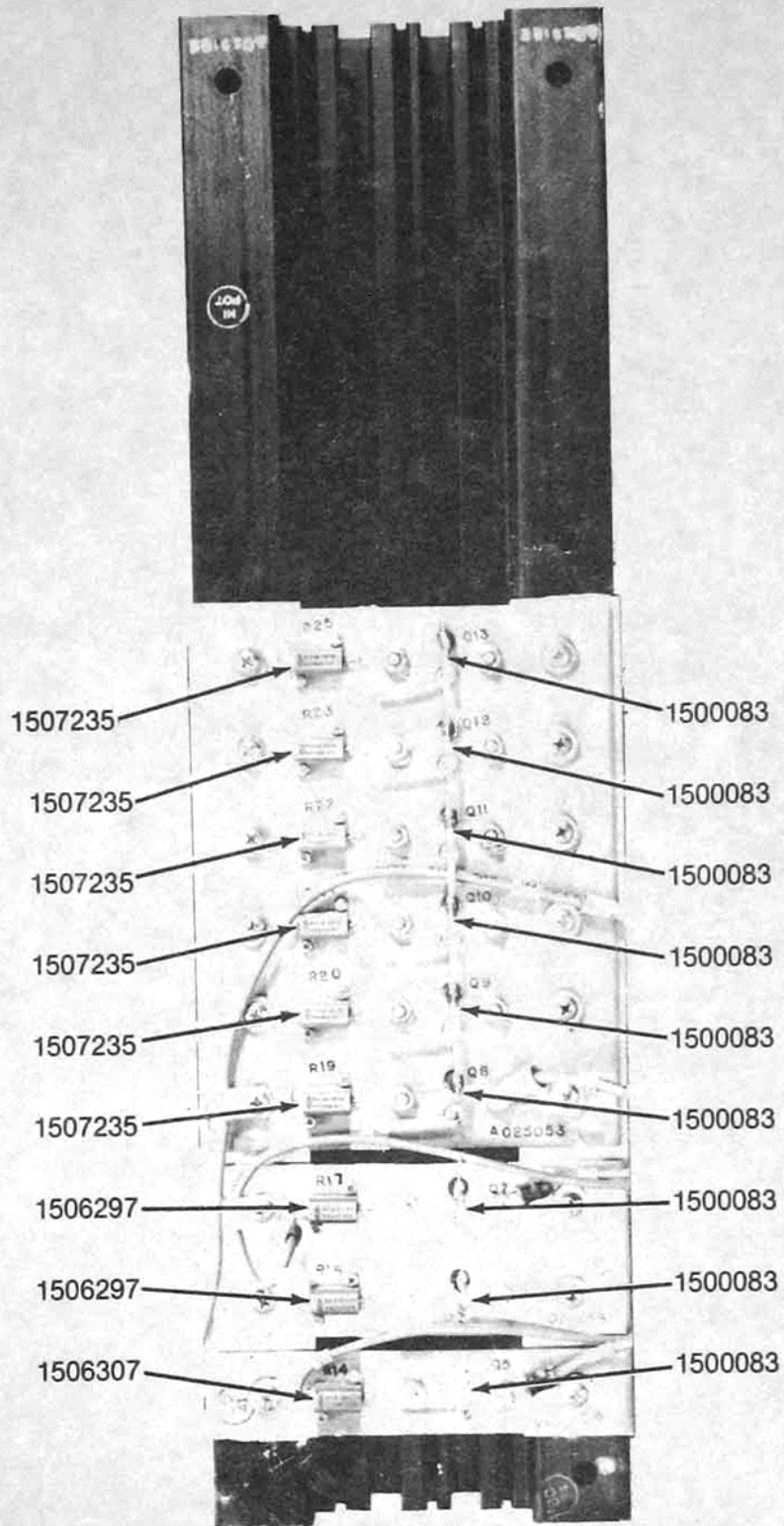


Figure 13-6 Regulated Power Supply Heat Sink and Transistor Assembly

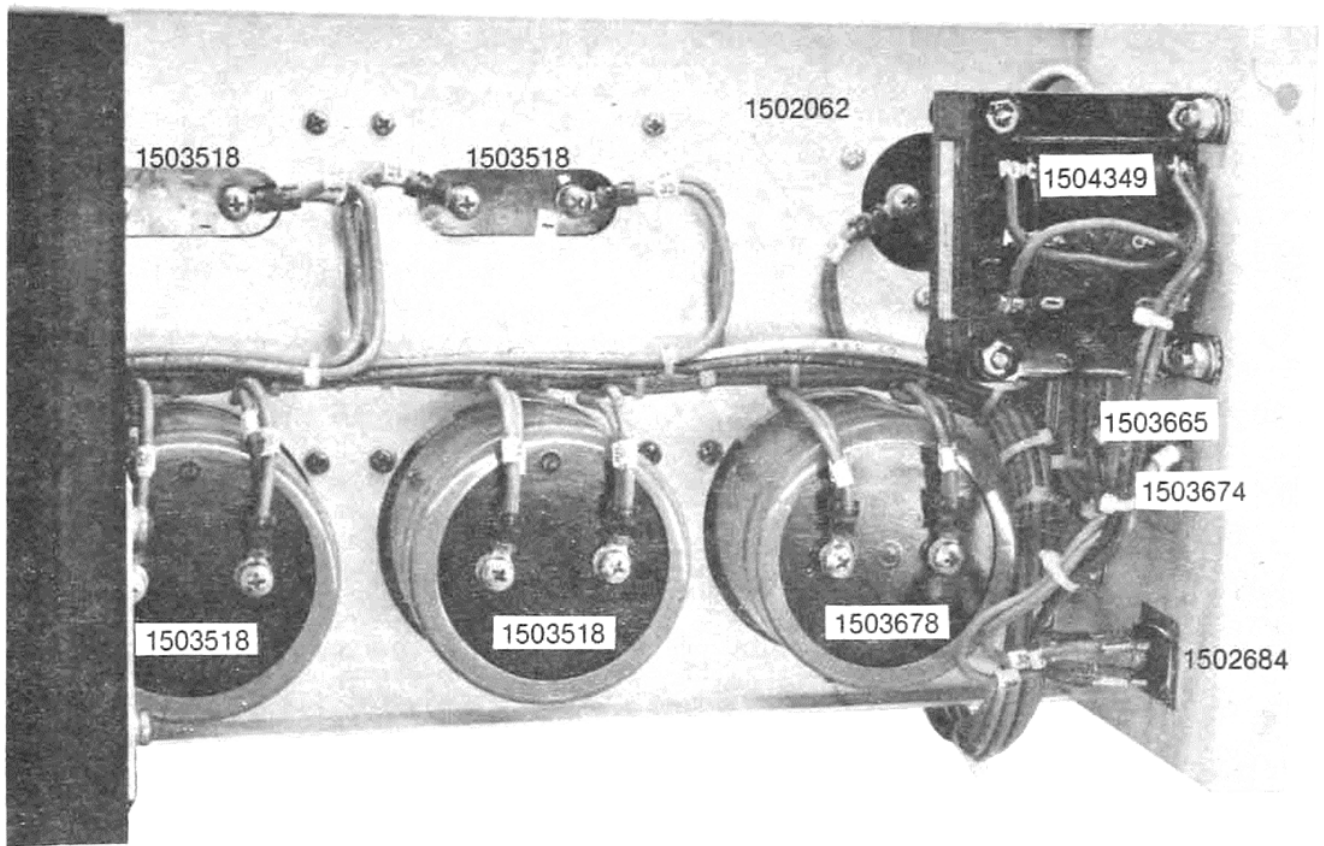


Figure 13-7 Axis Drive Chassis

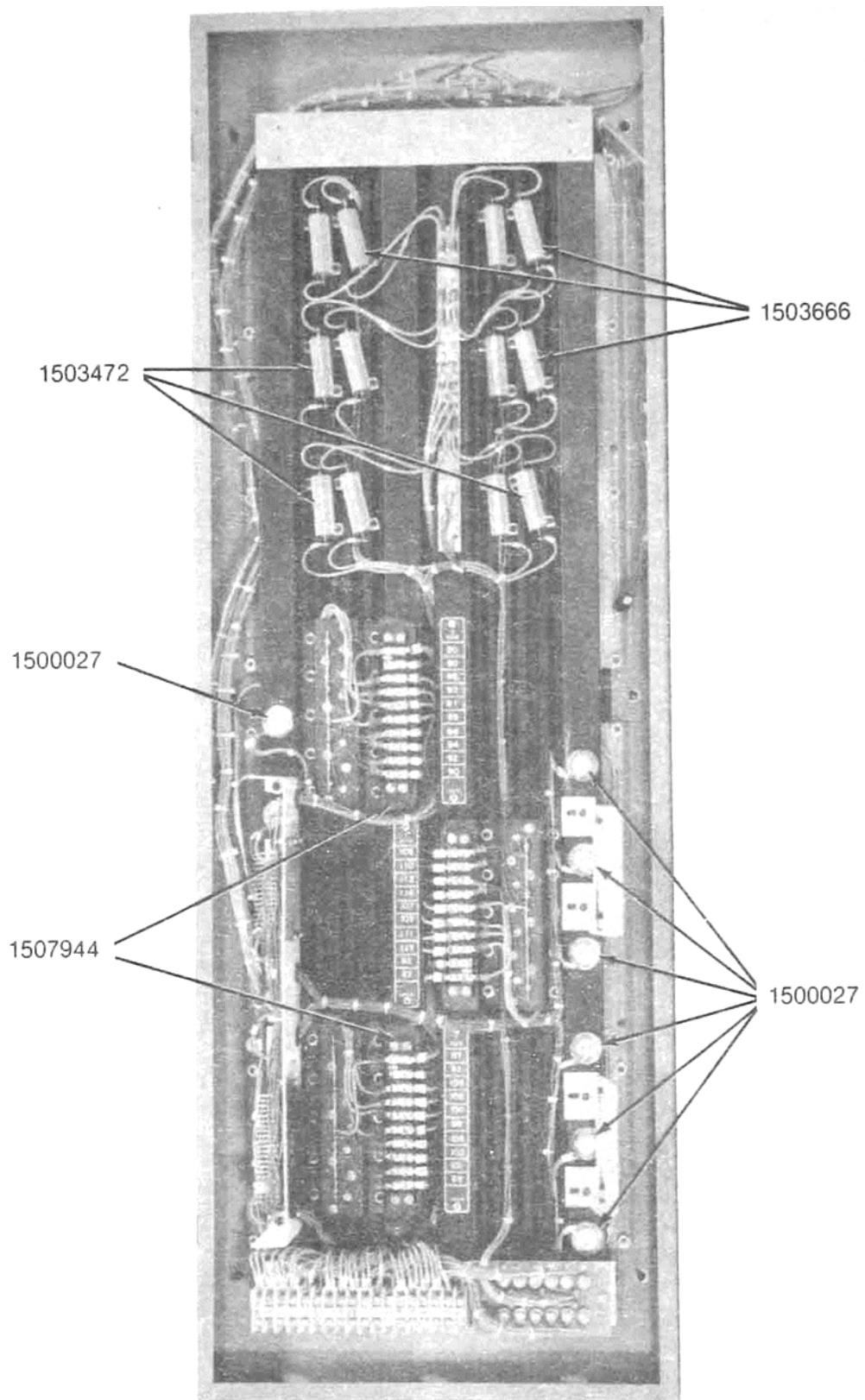


Figure 13-8 Axis Power Drive Heat Sink Assembly

13.3 POWER EQUIPMENT ENCLOSURE

13.3.1 Electro-Mechanical Parts

		Coolant	W/O Coolant	50 Hz	60 Hz	208V	230V	380/420V	460V
Fan	1507946	X	X	X	X	X	X	X	X
Filter	1507452	X	X	X	X	X	X	X	X
Flood Coolant Assy	1926283	X		X	X	X	X	X	X
Relay, 24V, DPDT, 472 Ohm, 10A, (CR3)	1503502	X		X	X	X	X	X	X
Relay, 24V, 3PDT, 472 Ohm, 5A, (CR5)	1505074	X		X	X	X	X	X	X
Triac Relay, (CR4)	1507342	X		X	X	X	X	X	X
Overload Relay, 1 MOL	1503942	X	X	X	X	X	X	X	X
Heater	1503686	X	X	X	X	X			
Heater	1503389	X	X	X	X		X		
Heater	1503925	X	X	X	X			X	
Heater	1503917	X	X	X	X				X
Heater	1504145	X	X	X	X			X	
Disconnect Switch	1508780	X	X	X	X	X	X	X	X
Receptacle, Duplex	1503733	X	X	X	X	X	X	X	X
Receptacle, Single	1507297	X	X	X	X	X	X	X	X
Cover, Duplex	1503332	X	X	X	X	X	X	X	X
Cover, Single	1507298	X	X	X	X	X	X	X	X
Switch, Selector	1504610	X	X	X	X	X	X	X	X
Reversing Contactor	1930803	X	X	X	X	X	X	X	X
Contactor	1508771	X	X	X	X	X	X	X	X
Fuse Holder	1504170	X	X	X	X	X	X	X	X
Contactor	1508771	X	X	X	X	X	X	X	X
Printed Circuit Boards									
SCA Board	1926296	X		X	X	X	X	X	X
Resistors									
750 Ohm, 50W (R5-7)	1503665	X	X	X	X	X	X	X	X
20 Ohm, 50W (R11-13)	1503666	X	X	X	X	X	X	X	X
100 Ohm, 50W (R8-10)	1503845	X	X	X	X	X	X	X	X
Semiconductors									
Diode, 1N4004, (D38)	1503695	X		X	X	X	X	X	X
Diode, 1N4722 (D10-12) 3 ea.	1503473	X	X	X	X	X	X	X	X
Diode, 1N4003 (D37)	1500029	X		X	X	X	X	X	X
Cables									
Spindle Motor Cable	1500398	X	X	X	X	X	X	X	X
Flood Coolant Pump Cable	1925862	X		X	X	X	X	X	X
Spindle Motor Drive Cable	1930419	X	X	X	X	X	X	X	X
Auto Lube Cable	1927763	X	X	X	X	X	X	X	X
Fuses and Adapters									
FU23, 250V, FRN 32/10	1504687	X		X	X	X	X	X	X
FU4, 250V, SB, MDA, 6 Amp	1508852	X	X	X	X	X	X	X	X
FU15,16,17, 250V, Fast Act, ABC, 15 Amp	1508864	X	X	X	X	X	X	X	X
FU22, 250V, AGC, 1 Amp	1500498	X	X	X	X	X	X	X	X
FU24, 250V, NON 3	1503393	X		X	X	X	X	X	X
Adapter	1504376	X	X	X	X	X	X	X	X
Fuse Block	1508378	X	X	X	X	X	X	X	X
ARC Suppressor									
.1 uF, 100 Ohm	1504677	X		X	X	X	X	X	X

Inductive Components

		Coolant	W/O Coolant	50 Hz	60 Hz	208V	230V	380/420V	460V
Inductor, Toroid	1918225	X		X	X	X	X	X	X
Saturable Reactor, 3 ea.	1921375	X	X	X	X	X	X	X	X
Transformer, T1	1503711		X		X	X			
Transformer, T1	1503709		X		X		X		X
Transformer, T1	1503705	X			X	X			
Transformer, T1	1503703	X			X		X		X
Transformer, T1	1924870		X	X			X	X	X
Transformer, T1	1919443	X		X			X	X	X
Transformer, T2	1924541	X	X		X	X			
Transformer, T2	1921374	X	X		X		X		X
Transformer, T2	1924869	X	X	X			X	X	X
Transformer, T2	1926648	X	X	X		X			

Motors

Spindle Motor	1770101				X		X		X
	1770288			X	X	X			

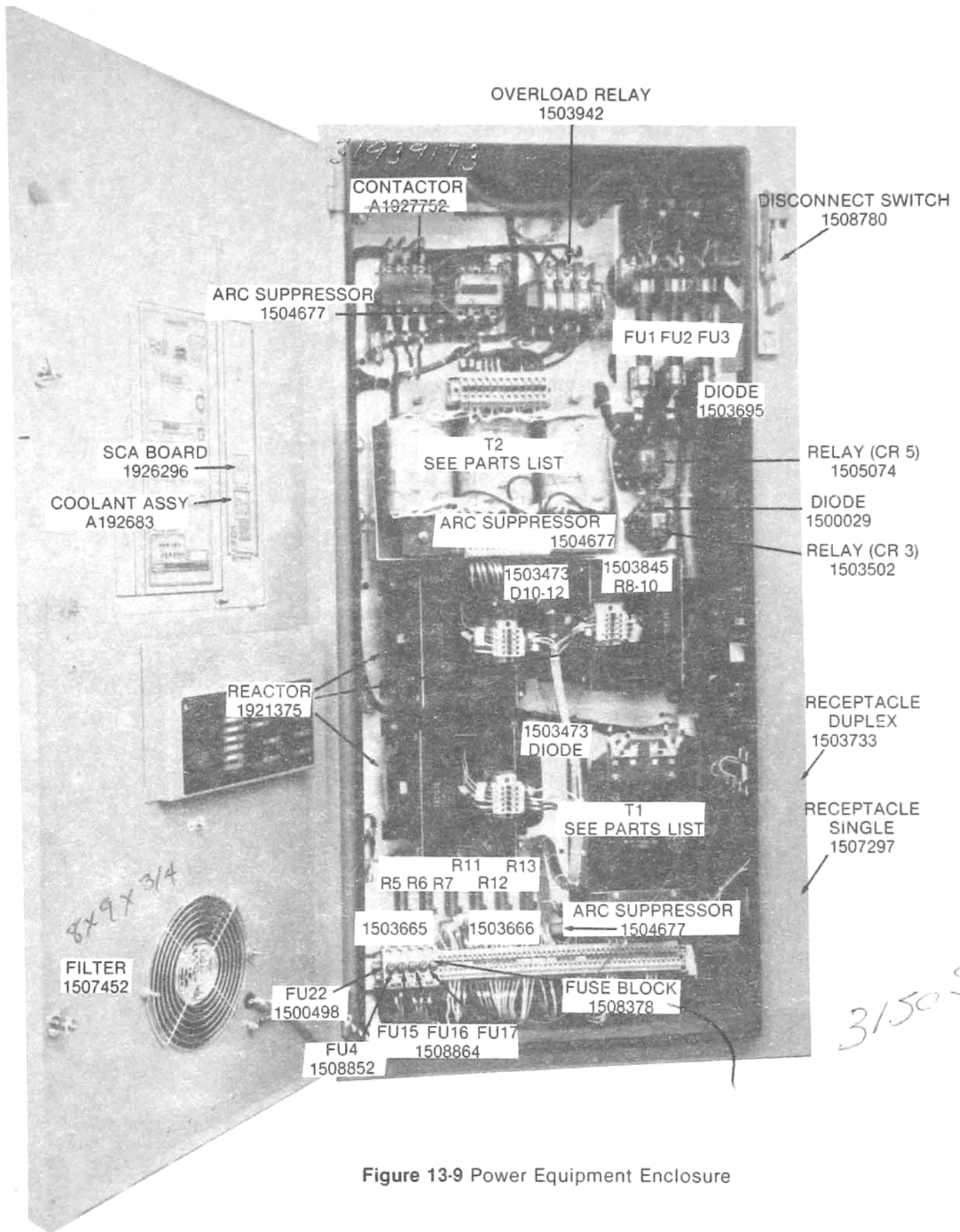


Figure 13-9 Power Equipment Enclosure

13.4 BRAKE, SPINDLE SPEED CONTROL

13.4.1 Electro-Mechanical Parts

Indicator Light, Green	1504971
Switch, Brake	1504234
Switch, Speed	1504167
Switch, Spindle Range	1509183
Switch, Pushbutton	1507855
Switch, Emergency Stop	1507855

13.4.2 Cable Assemblies

Cable Assy (Long)	1930993
Cable Assy (Short)	1930706

PB. 503410

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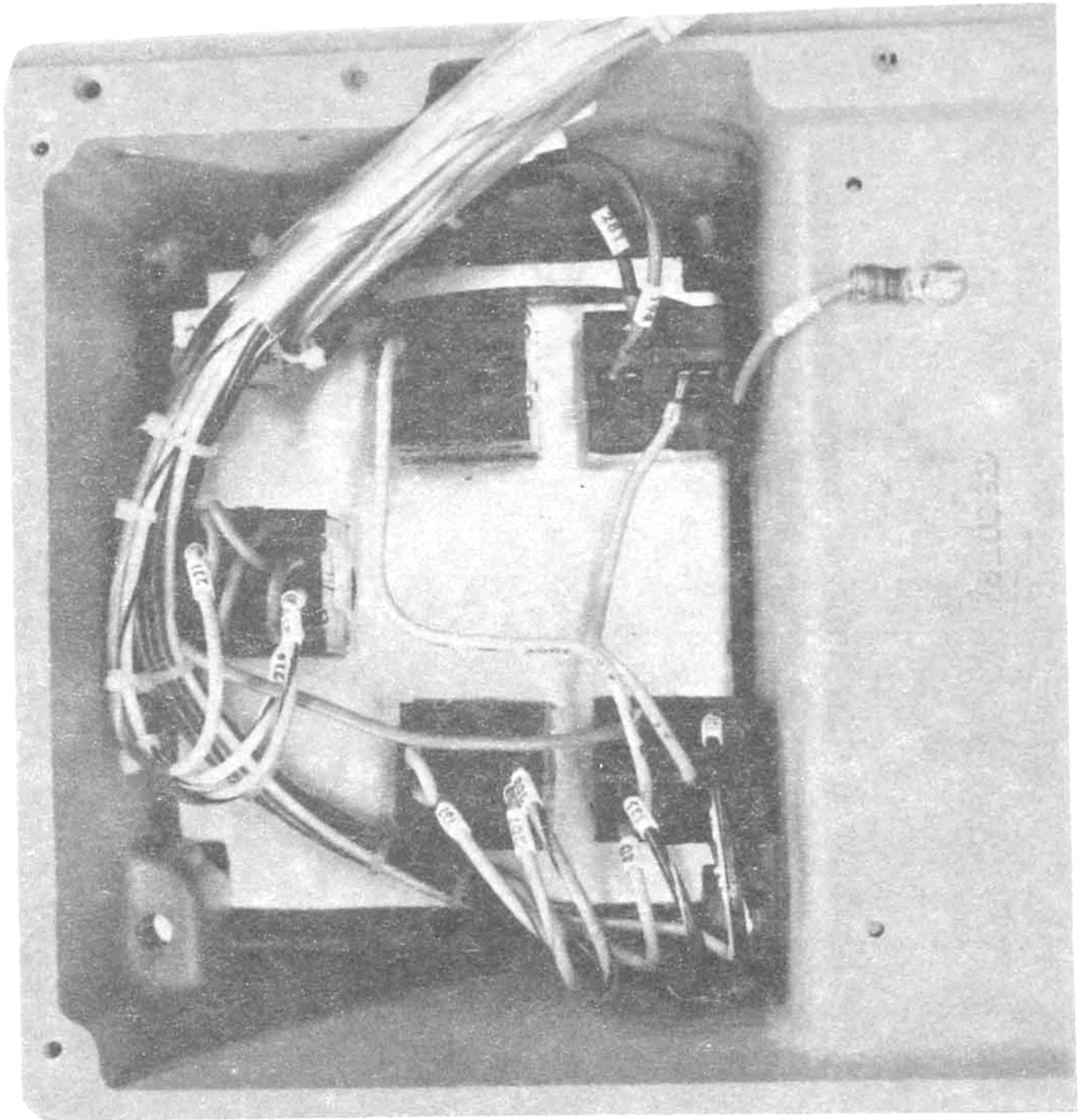


Figure 13-10 Starter Brake Spindle Speed Housing

13.5 PNEUMATIC COMPONENTS

13.5.1 Electro-Mechanical Parts

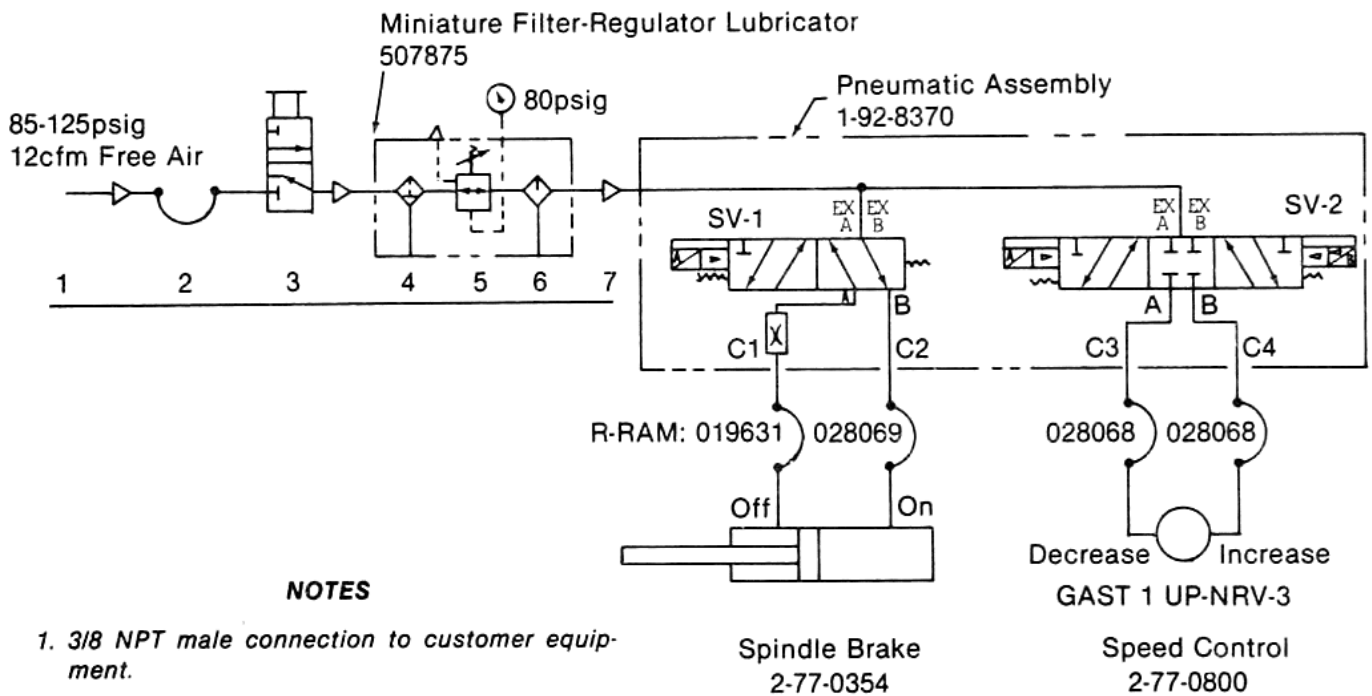
Valve	1507782
Valve	1507783
Valve, Sleeve, 3-way	1507920
Filter-Regulator	1507875

13.5.2 Hoses

Brake, Short	1919631
Main Supply	1927875
Spindle Control, 2 ea.	1928068
Brake, Long	1928069
Hose	1928363
Hose	1928364

13.5.3 Semiconductors

Diode, 1N4003, 3 ea.	1500029
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NOTES

1. 3/8 NPT male connection to customer equipment.
2. 20 ft. 3/8 ID flexible air hose.
3. On/Off slide valve.
4. Filter/separator with drain.
5. Pressure regulating valve, set 80psig.
6. Lubrication: Use Texaco Capella 22. Adjust drip frequency so that the air exhaust shows a slight fog.
7. Location for the insertion of optional index function control.

See Section 3 system wiring diagram 1040388, Sheet 1, for electrical interlocks.

Figure 13-11 Pneumatic Diagram

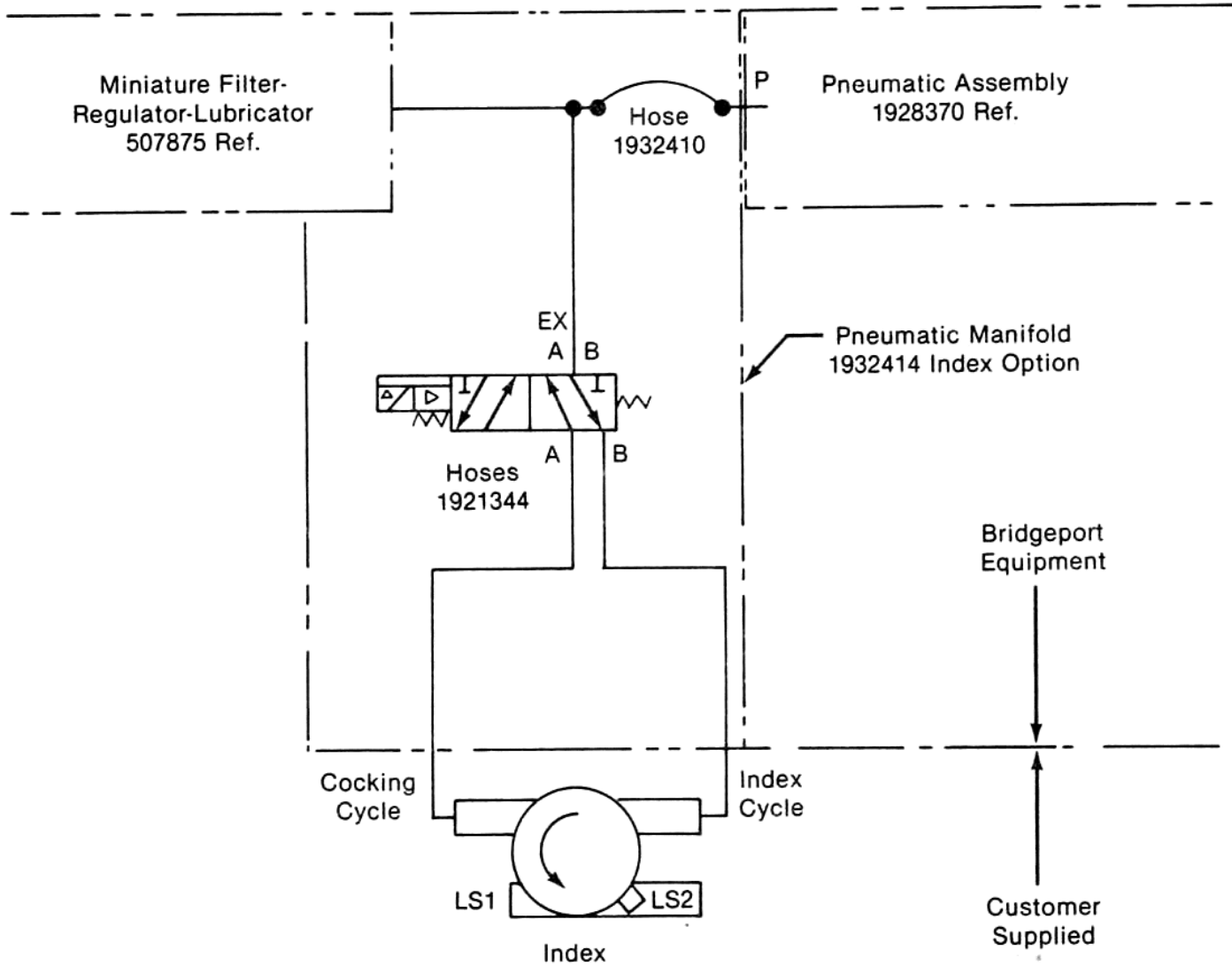


Figure 13-12 Pneumatic Installation, Index Option

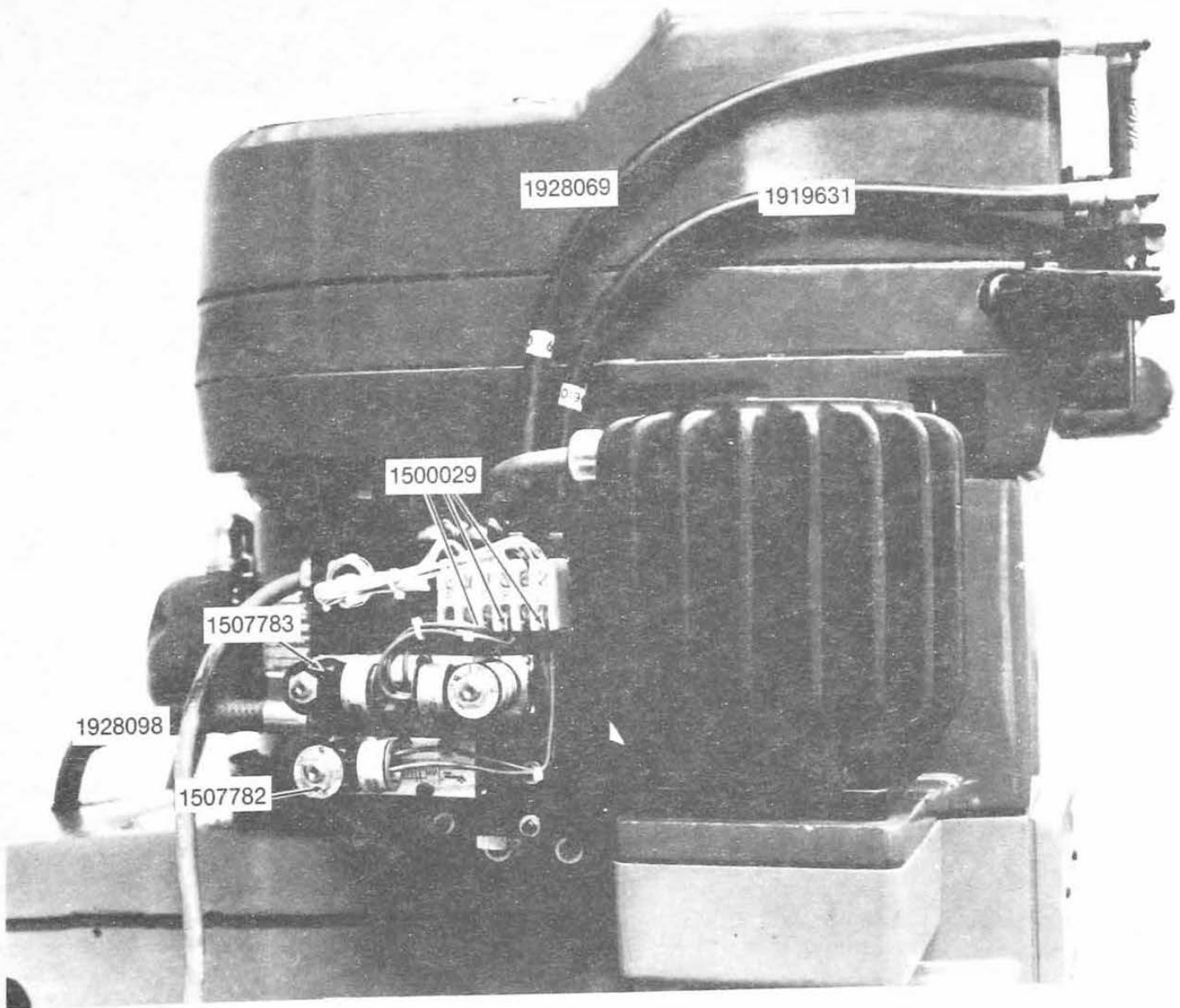


Figure 13-13 Pneumatic Assembly Detail

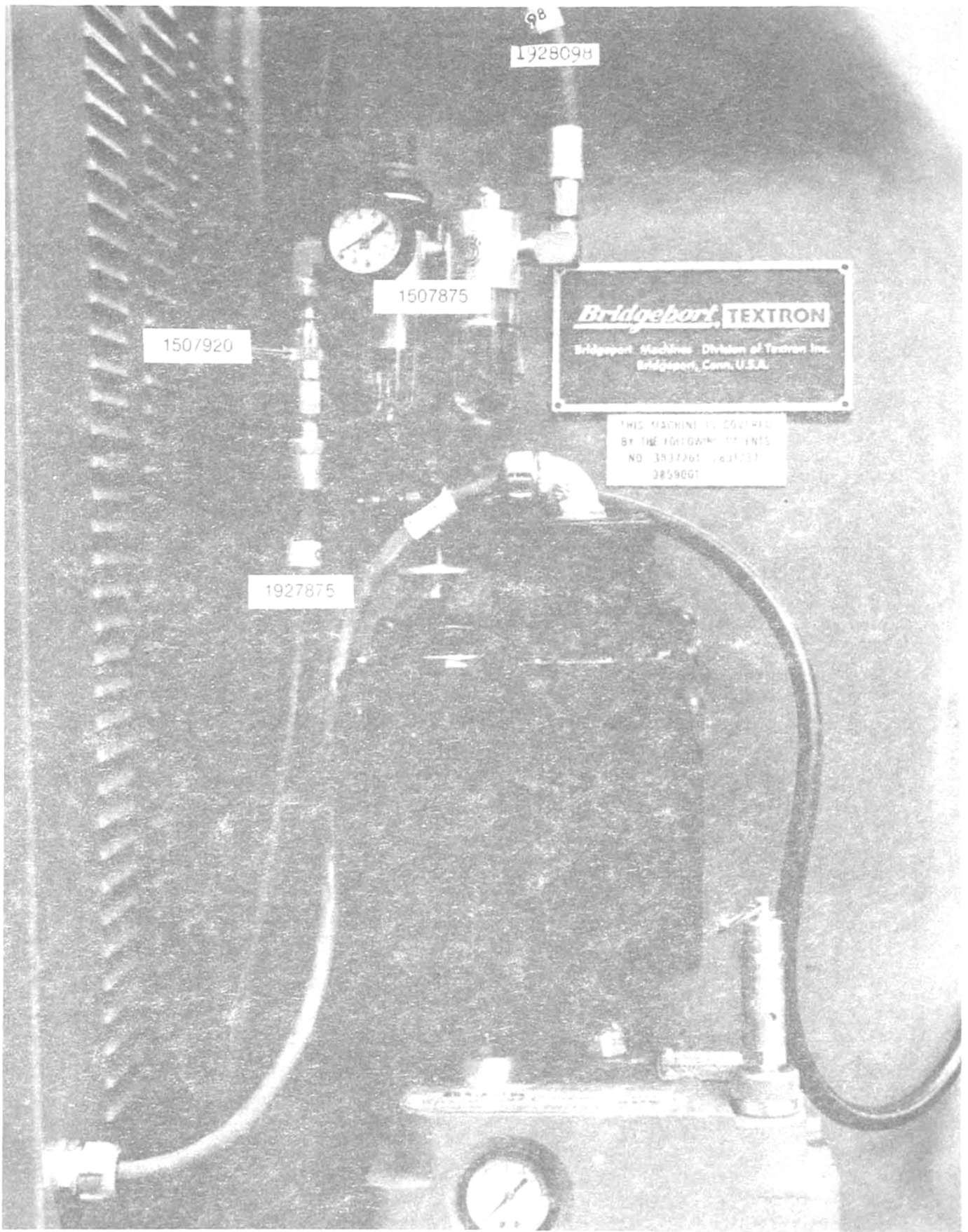


Figure 13-14 Pneumatic Assembly Detail

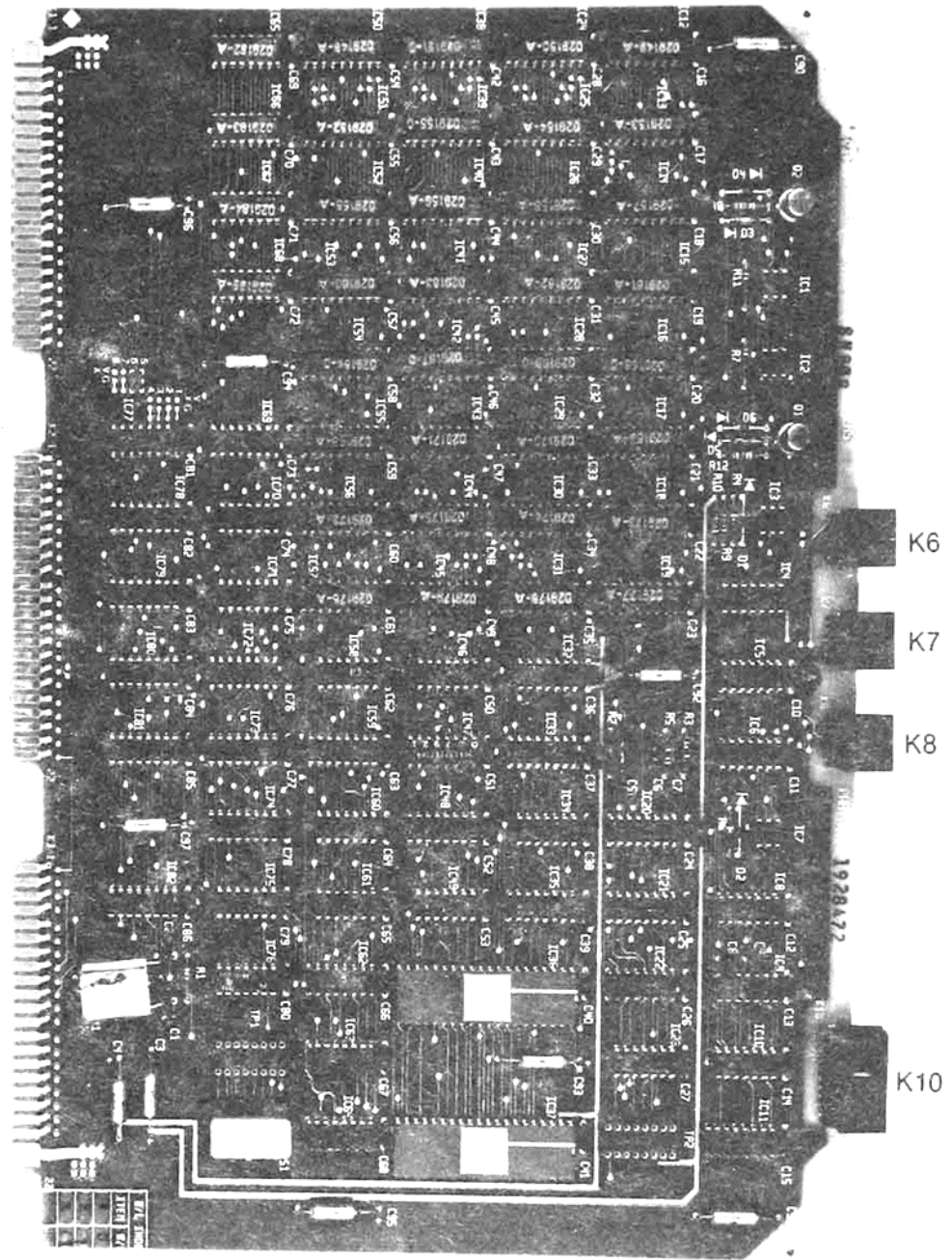


Figure 13-15 ERS Board (Refer to Section 4.6 and Drawing 1040326)



**Figure 13-16 ZCK Board (P/N 2924112)
(Refer to Section 4.4 and Drawing 1028112)**

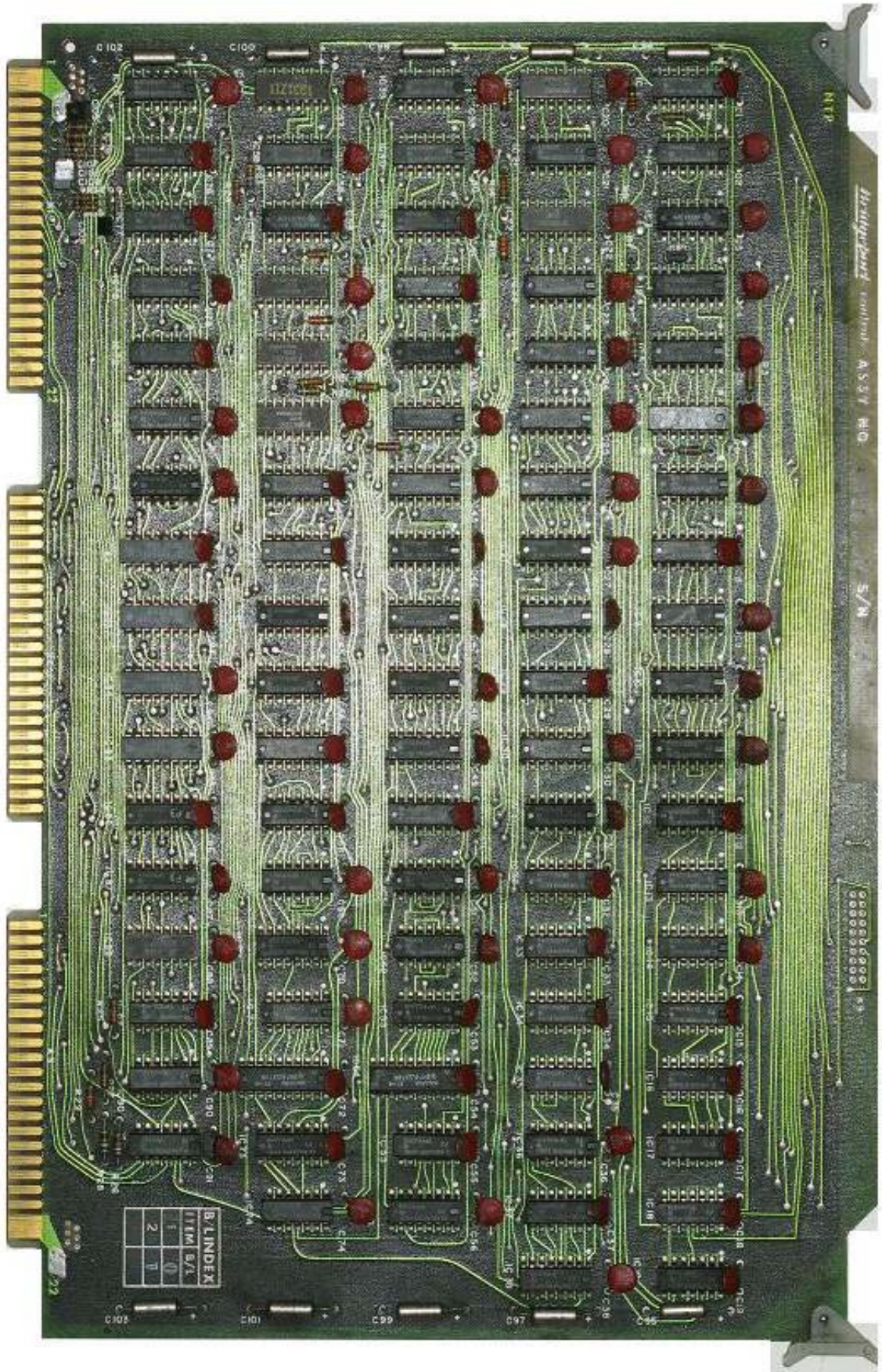


Figure 13-17 NTP Board (P/N 31930399)
(Refer to Section 4.5 and Drawing 1040334 & 1040279 Sheet 1)
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