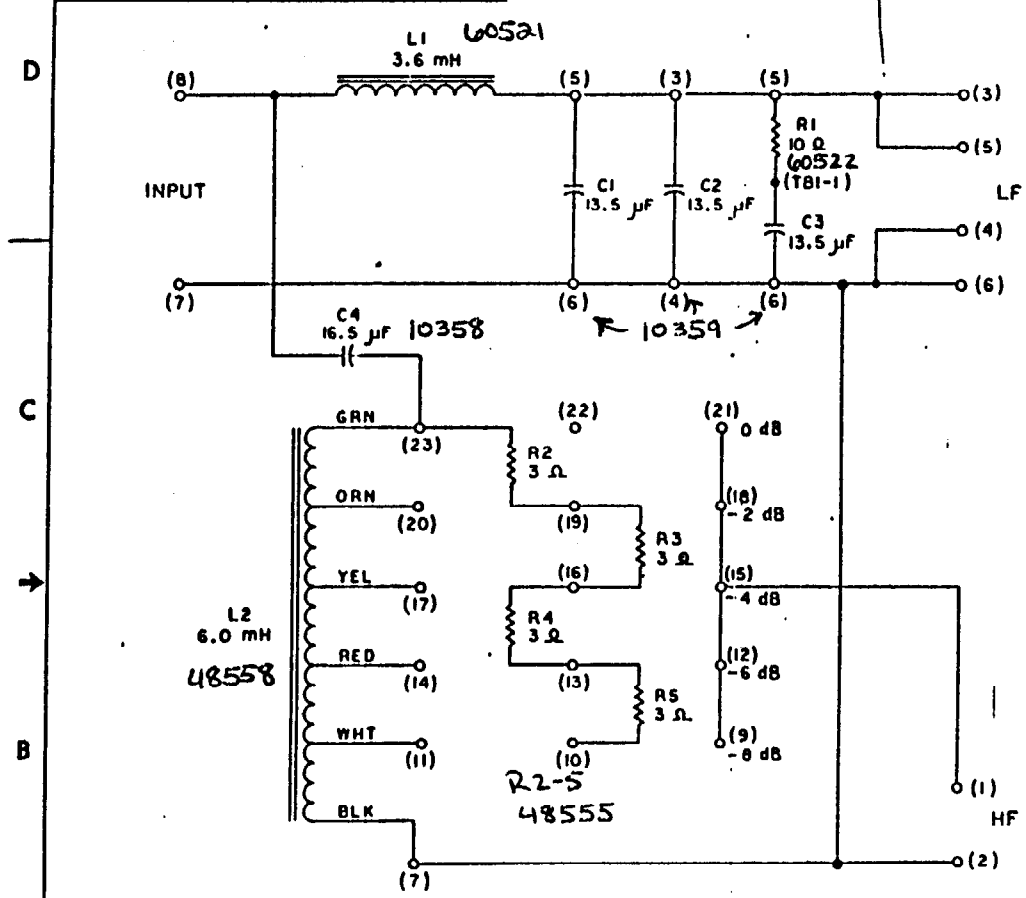


THIS DRAWING AND SPECIFICATIONS ARE THE PROPERTY OF JAMES O. LANGRISH COMPANY AND
 THEY ARE MADE ON SECRECY EQUIPMENT AND SHALL NOT BE REPRODUCED COPIES OR USED
 AS THE BASIS FOR MANUFACTURE OR SALE OF APPARATUS WITHOUT WRITTEN PERMISSION



REVISIONS					
CHG	LTR	DESCRIPTION	DRFT	CHK	DATE
---	A	MPG PROTOTYPE RUN # 1	L.M.	J.F.	1-2-58
N-D-45	A	REL FOR PRDD	DAM	J.F.	1-2-58

16 Ω	200	500	1K
LF	-2	-8	
HF		-8	-3, -4, -5, -6, -8

NOTES: (UNLESS OTHERWISE SPECIFIED.)

ITEM	PART NO.	DESCRIPTION	QTY	REMARKS
BILL OF MATERIAL				
<small>ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES (EXCEPT WHERE SHOWN OTHERWISE) TOLERANCES UNLESS OTHERWISE SPECIFIED ARE: A. 0.005 ± 0.0003 inch. B. 0.005 ± 0.0005 inch. C. 0.005 ± 0.0005 inch.</small>		<small>DATE: 11-24-58 DRAWN: J. F. [Signature] CHECKED: J. F. [Signature] DESIGN: J. F. [Signature] INCHES: 1/16, 1/32, 1/64, 1/8, 1/4, 1/2, 3/4, 1, 1 1/2, 2, 3, 4, 6, 8, 12, 18, 24, 36, 48, 60, 72, 96, 120, 144, 180, 216, 288, 360, 432, 576, 720, 864, 1080, 1440, 1800, 2160, 2880, 3600, 4320, 5400, 7200, 9000, 10800, 14400, 18000, 21600, 28800, 36000, 43200, 54000, 72000, 90000, 108000, 144000, 180000, 216000, 288000, 360000, 432000, 540000, 720000, 900000, 1080000, 1440000, 1800000, 2160000, 2880000, 3600000, 4320000, 5400000, 7200000, 9000000, 10800000, 14400000, 18000000, 21600000, 28800000, 36000000, 43200000, 54000000, 72000000, 90000000, 108000000, 144000000, 180000000, 216000000, 288000000, 360000000, 432000000, 540000000, 720000000, 900000000, 1080000000, 1440000000, 1800000000, 2160000000, 2880000000, 3600000000, 4320000000, 5400000000, 7200000000, 9000000000, 10800000000, 14400000000, 18000000000, 21600000000, 28800000000, 36000000000, 43200000000, 54000000000, 72000000000, 90000000000, 108000000000, 144000000000, 180000000000, 216000000000, 288000000000, 360000000000, 432000000000, 540000000000, 720000000000, 900000000000, 1080000000000, 1440000000000, 1800000000000, 2160000000000, 2880000000000, 3600000000000, 4320000000000, 5400000000000, 7200000000000, 9000000000000, 10800000000000, 14400000000000, 18000000000000, 21600000000000, 28800000000000, 36000000000000, 43200000000000, 54000000000000, 72000000000000, 90000000000000, 108000000000000, 144000000000000, 180000000000000, 216000000000000, 288000000000000, 360000000000000, 432000000000000, 540000000000000, 720000000000000, 900000000000000, 1080000000000000, 1440000000000000, 1800000000000000, 2160000000000000, 2880000000000000, 3600000000000000, 4320000000000000, 5400000000000000, 7200000000000000, 9000000000000000, 10800000000000000, 14400000000000000, 18000000000000000, 21600000000000000, 28800000000000000, 36000000000000000, 43200000000000000, 54000000000000000, 72000000000000000, 90000000000000000, 108000000000000000, 144000000000000000, 180000000000000000, 216000000000000000, 288000000000000000, 360000000000000000, 432000000000000000, 540000000000000000, 720000000000000000, 900000000000000000, 1080000000000000000, 1440000000000000000, 1800000000000000000, 2160000000000000000, 2880000000000000000, 3600000000000000000, 4320000000000000000, 5400000000000000000, 7200000000000000000, 9000000000000000000, 10800000000000000000, 14400000000000000000, 18000000000000000000, 21600000000000000000, 28800000000000000000, 36000000000000000000, 43200000000000000000, 54000000000000000000, 72000000000000000000, 90000000000000000000, 108000000000000000000, 144000000000000000000, 180000000000000000000, 216000000000000000000, 288000000000000000000, 360000000000000000000, 432000000000000000000, 540000000000000000000, 720000000000000000000, 900000000000000000000, 1080000000000000000000, 1440000000000000000000, 1800000000000000000000, 2160000000000000000000, 2880000000000000000000, 3600000000000000000000, 4320000000000000000000, 5400000000000000000000, 7200000000000000000000, 9000000000000000000000, 10800000000000000000000, 14400000000000000000000, 18000000000000000000000, 21600000000000000000000, 28800000000000000000000, 36000000000000000000000, 43200000000000000000000, 54000000000000000000000, 72000000000000000000000, 90000000000000000000000, 108000000000000000000000, 144000000000000000000000, 180000000000000000000000, 216000000000000000000000, 288000000000000000000000, 360000000000000000000000, 432000000000000000000000, 540000000000000000000000, 720000000000000000000000, 900000000000000000000000, 1080000000000000000000000, 1440000000000000000000000, 1800000000000000000000000, 2160000000000000000000000, 2880000000000000000000000, 3600000000000000000000000, 4320000000000000000000000, 5400000000000000000000000, 7200000000000000000000000, 9000000000000000000000000, 10800000000000000000000000, 14400000000000000000000000, 18000000000000000000000000, 21600000000000000000000000, 28800000000000000000000000, 36000000000000000000000000, 43200000000000000000000000, 54000000000000000000000000, 72000000000000000000000000, 90000000000000000000000000, 108000000000000000000000000, 144000000000000000000000000, 180000000000000000000000000, 216000000000000000000000000, 288000000000000000000000000, 360000000000000000000000000, 432000000000000000000000000, 540000000000000000000000000, 720000000000000000000000000, 900000000000000000000000000, 1080000000000000000000000000, 1440000000000000000000000000, 1800000000000000000000000000, 2160000000000000000000000000, 2880000000000000000000000000, 3600000000000000000000000000, 4320000000000000000000000000, 5400000000000000000000000000, 7200000000000000000000000000, 9000000000000000000000000000, 10800000000000000000000000000, 14400000000000000000000000000, 18000000000000000000000000000, 21600000000000000000000000000, 28800000000000000000000000000, 36000000000000000000000000000, 43200000000000000000000000000, 54000000000000000000000000000, 72000000000000000000000000000, 90000000000000000000000000000, 108000000000000000000000000000, 144000000000000000000000000000, 180000000000000000000000000000, 216000000000000000000000000000, 288000000000000000000000000000, 360000000000000000000000000000, 432000000000000000000000000000, 540000000000000000000000000000, 720000000000000000000000000000, 900000000000000000000000000000, 1080000000000000000000000000000, 1440000000000000000000000000000, 1800000000000000000000000000000, 2160000000000000000000000000000, 2880000000000000000000000000000, 3600000000000000000000000000000, 4320000000000000000000000000000, 5400000000000000000000000000000, 7200000000000000000000000000000, 9000000000000000000000000000000, 10800000000000000000000000000000, 14400000000000000000000000000000, 18000000000000000000000000000000, 21600000000000000000000000000000, 28800000000000000000000000000000, 36000000000000000000000000000000, 43200000000000000000000000000000, 54000000000000000000000000000000, 72000000000000000000000000000000, 90000000000000000000000000000000, 108000000000000000000000000000000, 144000000000000000000000000000000, 180000000000000000000000000000000, 216000000000000000000000000000000, 288000000000000000000000000000000, 360000000000000000000000000000000, 432000000000000000000000000000000, 540000000000000000000000000000000, 720000000000000000000000000000000, 900000000000000000000000000000000, 1080000000000000000000000000000000, 1440000000000000000000000000000000, 1800000000000000000000000000000000, 2160000000000000000000000000000000, 2880000000000000000000000000000000, 3600000000000000000000000000000000, 4320000000000000000000000000000000, 5400000000000000000000000000000000, 7200000000000000000000000000000000, 9000000000000000000000000000000000, 10800000000000000000000000000000000, 14400000000000000000000000000000000, 18000000000000000000000000000000000, 21600000000000000000000000000000000, 28800000000000000000000000000000000, 36000000000000000000000000000000000, 43200000000000000000000000000000000, 54000000000000000000000000000000000, 72000000000000000000000000000000000, 90000000000000000000000000000000000, 108000000000000000000000000000000000, 144000000000000000000000000000000000, 180000000000000000000000000000000000, 216000000000000000000000000000000000, 288000000000000000000000000000000000, 360000000000000000000000000000000000, 432000000000000000000000000000000000, 540000000000000000000000000000000000, 720000000000000000000000000000000000, 900000000000000000000000000000000000, 1080000000000000000000000000000000000, 1440000000000000000000000000000000000, 1800000000000000000000000000000000000, 2160000000000000000000000000000000000, 2880000000000000000000000000000000000, 3600000000000000000000000000000000000, 4320000000000000000000000000000000000, 5400000000000000000000000000000000000, 7200000000000000000000000000000000000, 9000000000000000000000000000000000000, 10800000000000000000000000000000000000, 14400000000000000000000000000000000000, 18000000000000000000000000000000000000, 21600000000000000000000000000000000000, 28800000000000000000000000000000000000, 36000000000000000000000000000000000000, 43200000000000000000000000000000000000, 54000000000000000000000000000000000000, 72000000000000000000000000000000000000, 90000000000000000000000000000000000000, 108000000000000000000000000000000000000, 144000000000000000000000000000000000000, 180000000000000000000000000000000000000, 216000000000000000000000000000000000000, 288000000000000000000000000000000000000, 360000000000000000000000000000000000000, 432000000000000000000000000000000000000, 540000000000000000000000000000000000000, 720000000000000000000000000000000000000, 900000000000000000000000000000000000000, 1080000000000000000000000000000000000000, 1440000000000000000000000000000000000000, 1800000000000000000000000000000000000000, 2160000000000000000000000000000000000000, 2880000000000000000000000000000000000000, 3600000000000000000000000000000000000000, 4320000000000000000000000000000000000000, 5400000000000000000000000000000000000000, 7200000000000000000000000000000000000000, 9000000000000000000000000000000000000000, 10800000000000000000000000000000000000000, 14400000000000000000000000000000000000000, 18000000000000000000000000000000000000000, 21600000000000000000000000000000000000000, 28800000000000000000000000000000000000000, 36000000000000000000000000000000000000000, 43200000000000000000000000000000000000000, 54000000000000000000000000000000000000000, 72000000000000000000000000000000000000000, 900, 108000000000000000000000000000000000000000, 144000000000000000000000000000000000000000, 1800, 216000000000000000000000000000000000000000, 288000000000000000000000000000000000000000, 3600, 432000000000000000000000000000000000000000, 5400, 7200, 9000, 10800, 14400, 18000, 21600, 28800, 36000, 43200, 54000, 72000, 900, 108000, 144000, 1800, 216000, 288000, 3600, 432000, 5400, 7200, 9000, 10800, 14400, 18000, 2160000000000000000</small>		