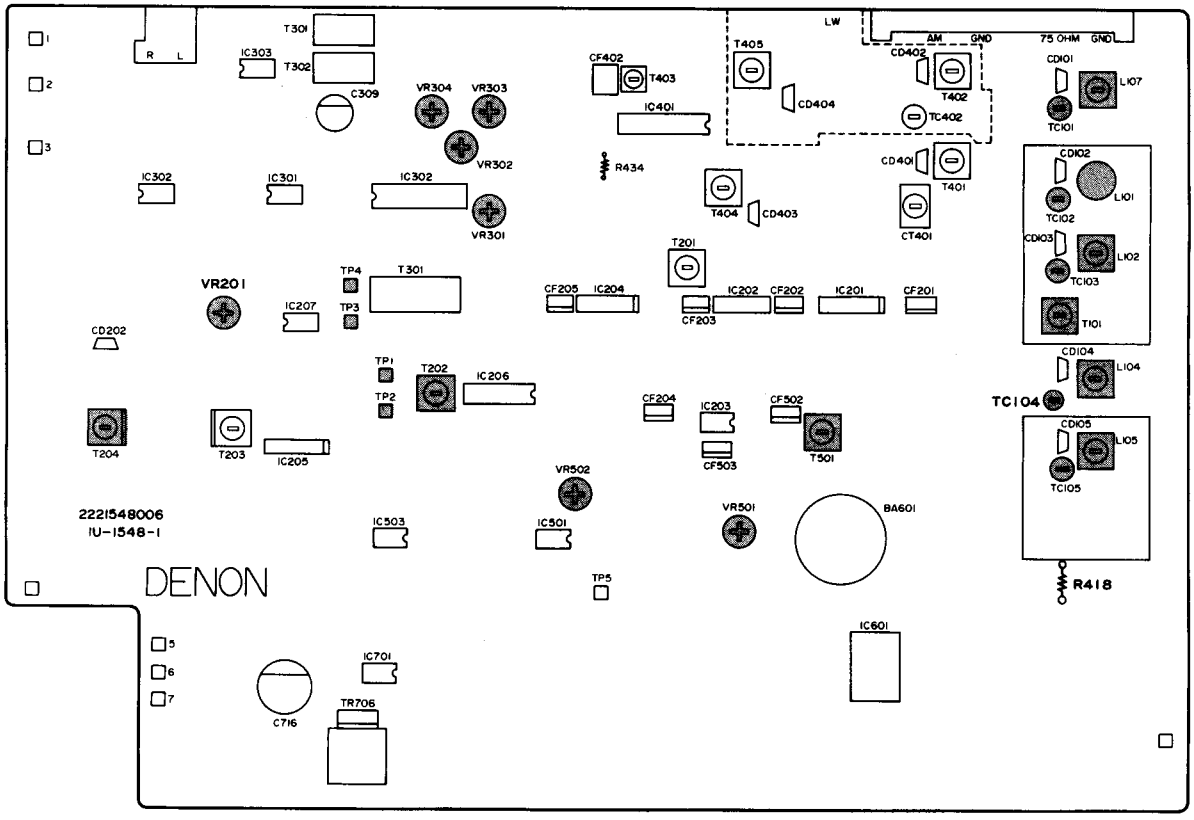
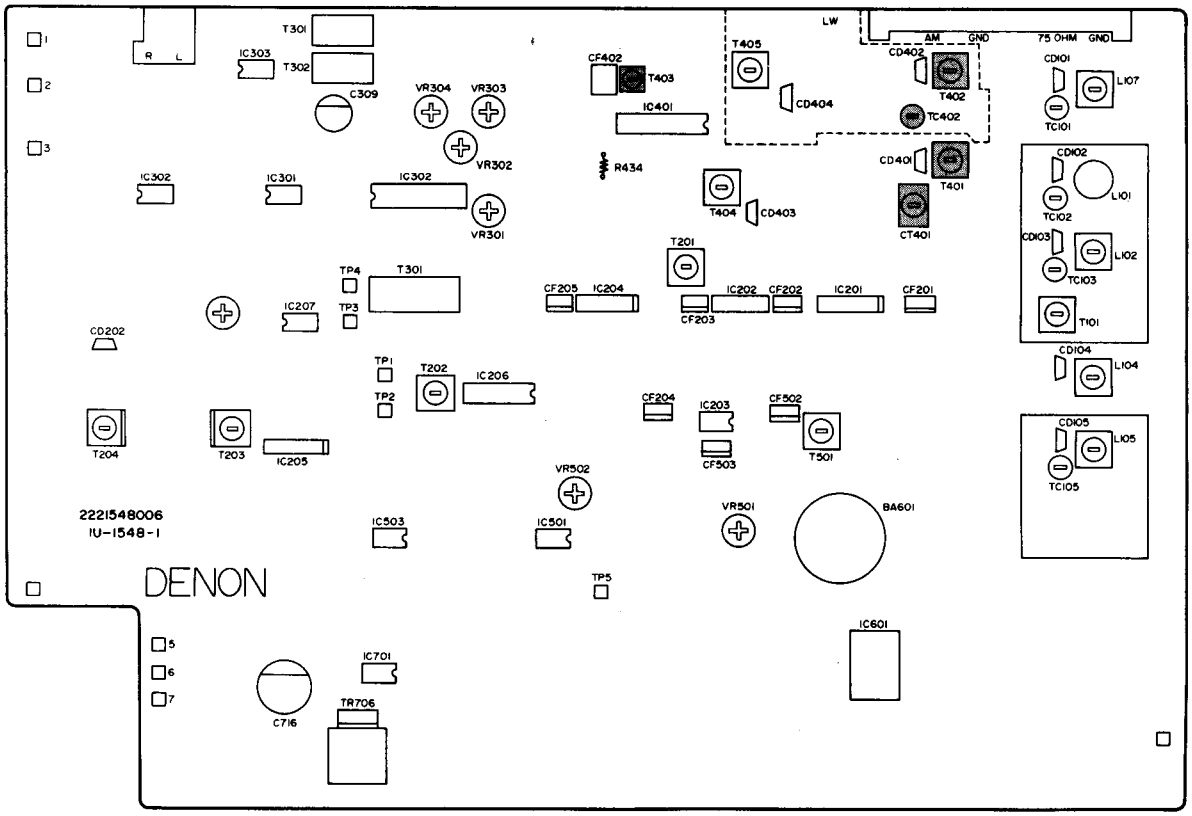
1U-1548 TUNER UNIT FM Alignment Points

(Component Side)



1U-1548 TUNER UNIT AM (MW, LW Alignment Points)

(Component Side)

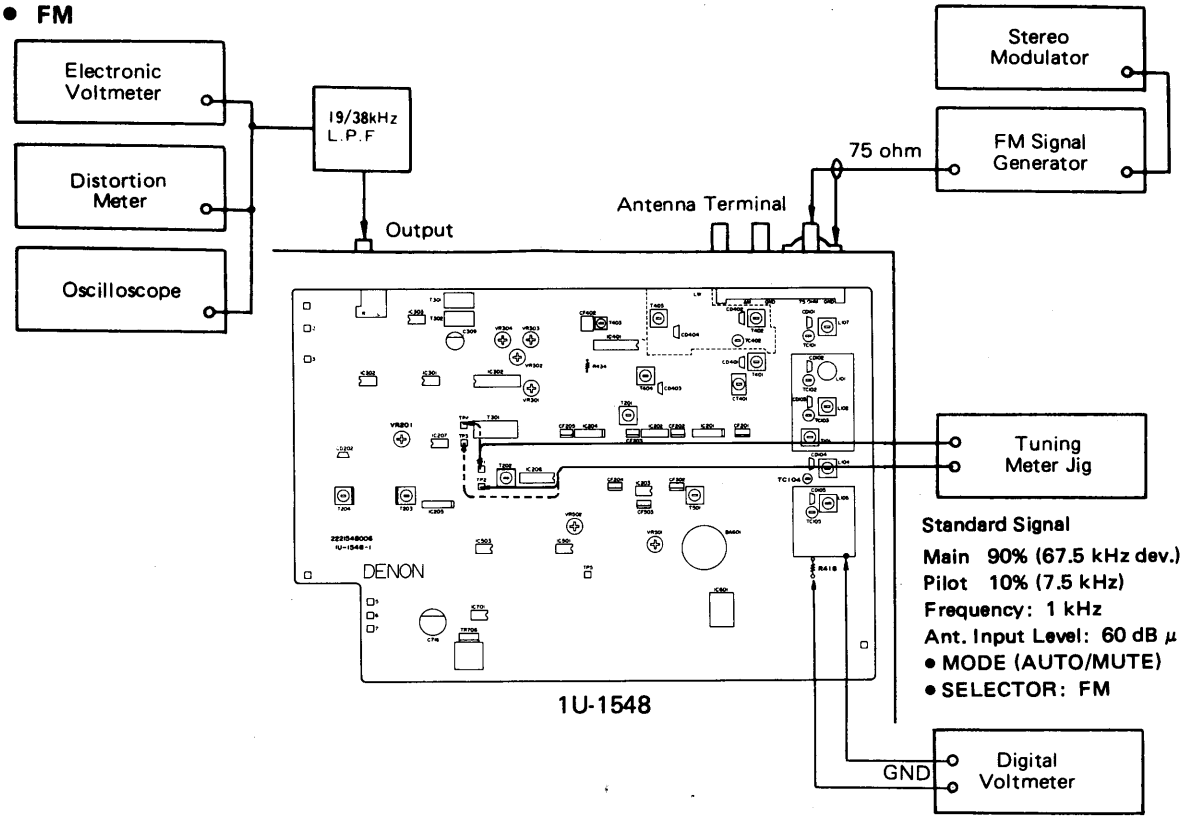


METHOD OF ADJUSTMENTS

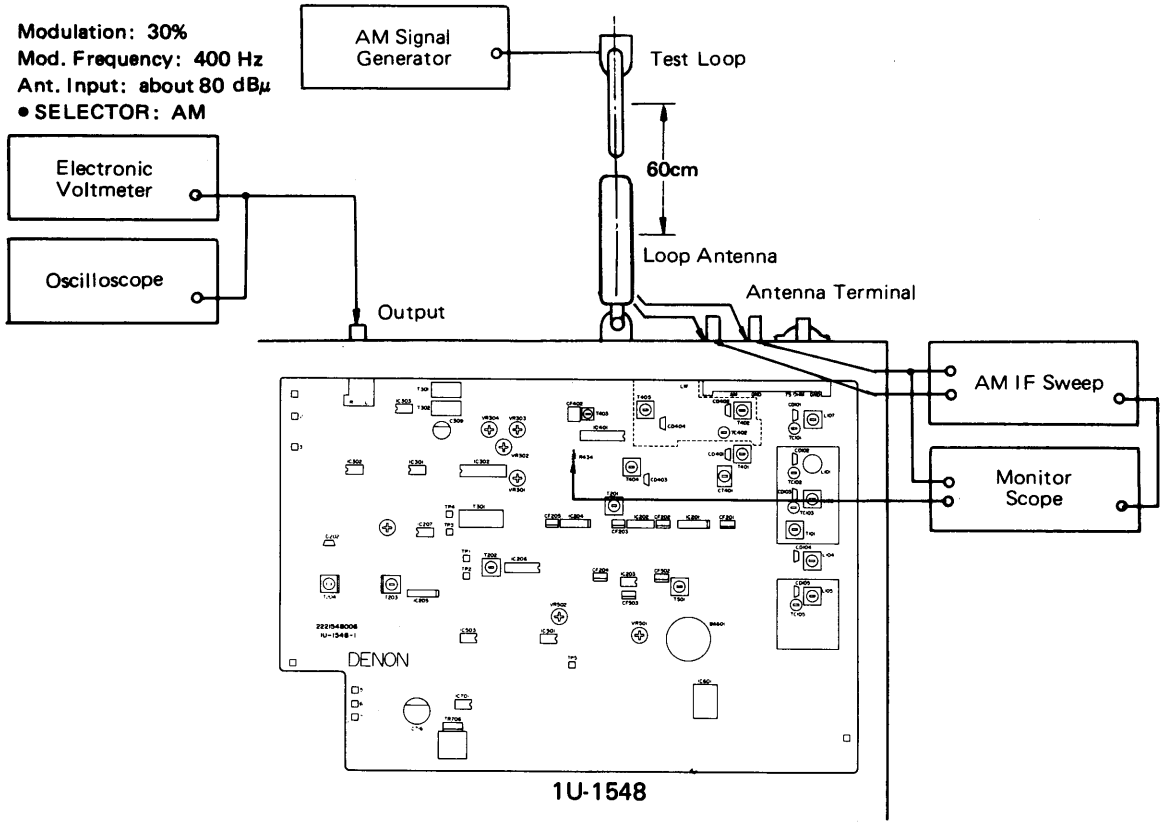
CONNECTION DIAGRAM OF MEASURING INSTRUMENTS

When making adjustments, be sure the power supply is at the rated voltage and the room air is on normal conditions with respect to temperature and humidity.

- **FM**



- **AM**



FRONTEND ALIGNMENT

Item	Alignment Item	Tuning frequency Setting	Input					Output		Adjustment		Remarks
			Type	Frequency	Input Level	Modulation	Coupling	Type	Connect to	Points	Adjust to	
1	Tuning Voltage	108 MHz	FMSSG	108 MHz	0 dBμ	Mono 1 kHz 100%	Antenna Terminal	DC Voltmeter	R418	TC105	21.0 V	IF BAND : WIDE
2		88 MHz	FMSSG	88 MHz	0 dBμ	Mono 1 kHz 100%	Antenna Terminal	DC Voltmeter	R418	L105	3.0 V	MUTE : off
3	Repeat several times from 1 to 2 to obtain accurate tuning voltage.											
4	Tracking Alignment	108 MHz	FMSSG	108 MHz	0 dBμ	Mono 1 kHz 100%	Antenna Terminal	AC Voltmeter	Output Terminal (L)	TC101~ 104	Maximum Output	
5		88 MHz	FMSSG	88 MHz	0 dBμ	Mono 1 kHz 100%	Antenna Terminal	AC Voltmeter	Output Terminal (L)	L101~ 104, 107	Maximum Output	
6	Repeat several times from 4 to 5 obtain maximum output level.											

FM ALIGNMENT

1	Center Adjustment	98 MHz	FMSSG	98 MHz	60 dBμ	Mono 1 kHz 100%	Antenna Terminal	Tuning Meter Jig	Tp. 1, 2	T202	Tuning Meter Center	IF BAND: WIDE
2	Center Adjustment	98 MHz	FMSSG	98 MHz	60 dBμ	"	"	"	Tp. 3, 4	T204	"	IF BAND: WIDE
3	Distortion	98 MHz	FMSSG	98 MHz	60 dBμ	"	"	Distortion Meter	Output Terminal (L)	VR201	Minimum Distortion	IF BAND: WIDE
4	Distortion	98 MHz	FMSSG	98 MHz	60 dBμ	Stereo (L) 1 kHz 100%	"	"	"	T101	"	IF BAND: WIDE
5	Distortion	98 MHz	FMSSG	98 MHz	60 dBμ	"	"	"	"	T501	"	IF BAND: SUPPER NARRON
6	Pilot Cancell	98 MHz	FMSSG	98 MHz	60 dBμ	Pilot (10%) only	"	AC Voltmeter	R326	VR301	Minimum Pilot Leakage	IF BAND: WIDE
7	Separation	98 MHz	FMSSG	98 MHz	60 dBμ	Stereo (L) 1 kHz 100%	"	"	Output Terminal (R)	VR304	Maximum Separation	IF BAND: WIDE
8	Separation	98 MHz	FMSSG	98 MHz	60 dBμ	"	"	"	Output Terminal (L)	VR303	"	IF BAND: WIDE
9	Signal Level	98 MHz	FMSSG	98 MHz	20 dBμ	off	"	DC Voltmeter	Tp. 5	VR502	0.9 V	IF BAND: WIDE
10	Signal Level	98 MHz	FMSSG	98 MHz	80 dBμ	off	"	"	Tp. 5	VR501	4.6 V	IF BAND: WIDE
11	REC CAL.	—	—	—	—	—	—	—	Output Terminal (L)	VR302	Half Voltage of Output Level	REC CAL: on

AM ALIGNMENT

• MW & LW ( ): U.S.A. and Canada models.

1	1F	—	IF Sweep	—	Input Level is not over to work A.G.C.	—	Antenna Terminal	Oscilloscope	R434	T403	Maximum Height and Best Symmetry Curve	Function: MW Center of Wave Form: 450 kHz
2	Tracking Alignment AM or MW	603 kHz (600)	AM SSG	603 kHz (600)	Input Level is not over to work A.G.C.	400 Hz 30%	Loop Antenna	Audio V.T.V.M.	Output Terminal (L)	T401	Maximum Output	Function: MW
		1404 kHz (1500)	AM SSG	1404 kHz (1500)	Input Level is not over to work A.G.C.	400 Hz 30%	Loop Antenna	Audio V.T.V.M.	Output Terminal (L)	TC401	Maximum Output	Function: MW
3	Tracking Alignment LW	163 kHz	AM SSG	163 kHz	Input Level is not over to work A.G.C.	400 Hz 30%	Loop Antenna	Audio V.T.V.M	Output Terminal (L)	T402	Maximum Output	Function: LW
		330 kHz	AM SSG	330 kHz	Input Level is not over to work A.G.C.	400 Hz 30%	Loop Antenna	Audio V.T.V.M.	Output Terminal (L)	TC402	Maximum Output	Function: LW

ut	Adjustment		Remarks
Connect to	Points	Adjust to	
R418	TC105	21.0 V	IF BAND : WIDE
R418	L105	3.0 V	MUTE : off
Output Terminal (L)	TC101~ 104	Maximum Output	
Output Terminal (L)	L101~ 104, 107	Maximum Output	
level.			

Tp. 1, 2	T202	Tuning Meter Center	IF BAND: WIDE
Tp. 3, 4	T204	"	IF BAND: WIDE
Output Terminal (L)	VR201	Minimum Distortion	IF BAND: WIDE
"	T101	"	IF BAND: WIDE
"	T501	"	IF BAND: SUPPER NARRON
R326	VR301	Minimum Pilot Leakage	IF BAND: WIDE
Output Terminal (R)	VR304	Maximum Separation	IF BAND: WIDE
Output Terminal (L)	VR303	"	IF BAND: WIDE
Tp. 5	VR502	0.9 V	IF BAND: WIDE
Tp. 5	VR501	4.6 V	IF BAND: WIDE
Output Terminal (L)	VR302	Half Voltage of Output Level	REC CAL: on

R434	T403	Maximum Height and Best Symmetry Curve	Function: MW Center of Wave Form: 450 kHz
Output Terminal (L)	T401	Maximum Output	Function: MW
Output Terminal (L)	TC401	Maximum Output	Function: MW
Output Terminal (L)	T402	Maximum Output	Function: LW
Output Terminal (L)	TC402	Maximum Output	Function: LW

TUNING METER JIG