

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.

Suggested Alignment Tools: A1 Thru A7, A10, A11, A13, A14, A16 Thru A23. . . GENERAL CEMENT #8282, 8606, 8606-L, 9091
WALSCO #2526, 2541, 2542, 2543, 2544

A8, A9, A12, A15. GENERAL CEMENT #5000, 5003, 8276, 8290
WALSCO #2512, 2515, 2522, 2523, 2525, 2537

AM ALIGNMENT — SELECTOR IN AM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1.	High side thru 200mmf and 400Ω in series to pin 2 (grid) of AM Mixer. Low side to chassis.	460KC (400% Mod.)	(BC) Tuning gang fully open.	Across voice Coil	A1, A2, A3, A4	Adjust for maximum output.
2.	High side thru 200mmf and 400Ω in series to AM antenna terminal. Low side to chassis.	"	"	"	A5	Adjust for MINIMUM output.
3.	"	555KC	555KC	"	A6, A7	Adjust for minimum output.
4.	"	1480KC	1480KC	"	A8, A9	Adjust for maximum output. Repeat Steps 3 and 4.
5.	"	1.6MC	(SW1) 1.6MC	"	A10, A11	Adjust for maximum output.
6.	"	4.9MC	4.9MC	"	A12	Adjust for maximum output.
7.	"	6.1MC	(SW2) 6.1MC	"	A13, A14	"
8.	"	17.9MC	17.9MC	"	A15	"

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM—SELECTOR IN FM POSITION

Connect two matched 100K (+1%) resistors in series from point Δ to chassis. The junction of these two resistors is alignment point \diamond as shown on the schematic.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
9.	Across FM antenna terminals.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe to point Δ . Common to chassis.	A16, A17, A18, A19, A20	Adjust for maximum deflection.
10.	"	"	"	DC probe to point \diamond . Common to point Δ .	A21	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE—SELECTOR IN FM POSITION

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
9.	Across FM antenna terminals.	10.7MC (450KC Swp)	(FM) Point of non-interference.	Vert. amp. to point Δ . Low side to chassis.	A16, A17, A18, A19, A20	Disconnect Stabilizing Capacitor C2. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Reconnect C2.
10.	"	"	"	Vert. amp. to point \diamond . Low side to chassis.	A21	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A16 for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT—SELECTOR IN FM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
11.	Across FM antenna terminals.	90MC (Unmod.)	(FM) 90MC	DC probe to point Δ . Common to chassis.	A22, A23	Adjust for maximum deflection.
12.	"	106MC	106MC	"	A24, A25	Adjust for maximum deflection. Repeat Steps 11 and 12.

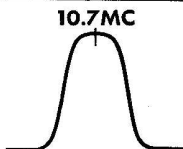


FIG. 1

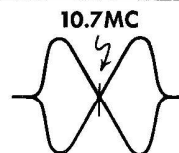


FIG. 2
FOLDER 8

SET 525

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NORDMENDE MODEL
Turandot (U-148)

FOLDER 8