OPERATING INSTRUCTIONS AND PARTS LIST FOR



CAR RADIO

AM/FM PUSH BUTTON TUNED FOR 12 VOLT D.C. NEGATIVE GROUND SYSTEMS ONLY

Model Number BJ300

The MODEL NUMBER of you radio will be found stamped on the bottom part of radio. Always give this number when communicating with us regarding this unit, or when ordering parts.

THE INSTRUCTIONS CONTAINED IN THIS MANUAL ARE FOR YOUR BENEFIT. READ THEM CAREFULLY BEFORE BEGINNING INSTALLATION.

This list is valuable. It will assure your being able to obtain proper parts service at all times. We suggest you keep it with other valuable papers.

INLAND DYNATRONICS INTERNATIONAL OF AUSTRALASIA PTY LTD

139 CHETWYND ST NORTH MELBOURNE 3051 CNR PARAMATTA RD AND SLOANE ST HABERFIELD 2045 147 GREY ST STH BRISBANE 4000

ELECTRICAL CONNECTION

- a) Connect radio battery lead to the ammeter, fuse block, or ignition switch whichever is most convenient.
- b) Plug the antenna lead-in into the antenna receptacle located on the rear side of the radio.

ADJUST ANTENNA TRIMMER

- a) Extend the antenna to its full length, turn volume control to normal level and tune in a weak station around 1400 kHz. Adjust antenna trimmer carefully for maximum volume. This is done by turning trimmer screw clockwise or counterclockwise.
- b) For maximum output, antenna trimmer must be properly adjusted for satisfactory operation of radio.

SERVICE DATA FOR TECHNICIANS USE ONLY ALIGNMENT PROCEDURE

AM IF & RF ALIGNMENT USING AM SIGNAL GENERATOR

Press one of the push buttons marked "A" to set radio for AM reception, AM signal generator should be coupled with antenna receptacle (J1) thru dummy. Set volume control to maximum and tone to treble. Attenuate Signal Generator output to maintain 0.5 watts on output meter (approx. 1.4 volts across 4 ohms load).

STEP	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1	455 kHz 400Hz, 30% Mod.	Around 1000 kHz of non-interference	Output meter across voice coil	AMIFT1 AMIFT2 AMIFT3	Adjust for Maximum
2	1650 k H z	High frequency end stop	n	CT6	"
3	525 k H z	Low frequency end stop	"	L9/L10	"
4	1400 kHz	Tune to signal	n	CT5 CT4	"
5	Repeat step 2, 3 and	1 4 until no further incr	ease. Step 4 should be	last step.	

FM IF ALIGNMENT USING FM SWEEP GENERATOR

Press one of the push buttons marked "F" to set the radio for FM reception. High side of sweep generator should be coupled with anttenna receptacle (J1) thru dummy.					
STEP	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
6	10.7 MHz	Point of non- interference	Vert. amp. of scope to point VR Low side to ground	FMIFT1 FMIFT2 FMIFT3	Adjust T7 to place maker at center of "S" curve similar. Adjust T4, T5 and T6 for maximum ampli- tude and straight- ness of line.

FM RF ALIGNMENT USING FM SIGNAL GENERATOR

Set the radio for FM reception. Connect FM signal generator across antenna receptacle (J1). Set volume control to maximum and tone to treble. Attenuate signal generator output to maintain 0.5 watts on output meter.

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STEP	GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
7	87.3 MHz 400 Hz 22.5 kHz dev.	Low frequency end stop	Output meter across voice coil	СТЗ	Adjust for Maximum
8	98 MHz	Tune to signal	"	CT1 CT2	"

Model BJ300 TYPE SET TRANSISTOR & DIODE	Battery Operated Indash Type AM & FM Automobile Receiver AM; RFamp. 2SC-839 CONV. 2SC-839 IFamp. 2SC-839 DETECTOR. 1N60 DRIVER. 2SC-945 \times 2 POWERamp. 2SC-1096 \times 2 FM; RFamp. 2SK19 LOCAC osc. 2SC-394 MIXER. 2SC-922 IFamp. μ PC-577 DETECTOR 1N60 D \times 2 AEC 1S251
POWER SUPPLY RATING TUNING RANGE	DETECTOR. $1 N 60 P \times 2$ AFC. $1S351$ 12 volt Storage Battery 13.2 volt AM 540 ~ 1600 kHz FM 88 ~ 108 MHz

PARTS LIST

Schematic Location	Description	Schematic Location	Description
TRANS	STOR	C 9	$0.01 \ \mu F - Z$
ŤR 1	2 S K1 9	C 10	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
TR 2	2 S C 9 2 2 - L	C 11	$\mu F - Z$
TR 3	2 S C 3 9 4 - 0	C 12	3 PF - N7 5 0
TR 4	2 S C 3 8 0 -0	C 13	0.0 1 $\mu F - Z$
TR 5	2 S C 8 3 9 -L	C 14	4 PF - N750
TR 6	2 S C 8 3 9 -L	C 15	$\mu F - 6 V$
TR 7	2 S C 8 3 9 -L	C 16	$0.0 \ 1 \ \mu F - Z$
TR 8	2 S C 9 4 5 - R	C 17	$0.01 \ \mu F - Z$
TR 9	2 S C 9 4 5 - R	C 18	$0.02 \mu F - Z$
TR 10	2 S C 1 0 9 6 -L	C 19	$0.0 \ 1 \qquad \mu \mathbf{F} - \mathbf{Z}$
TR 11	2 S C 1 0 9 6 -L	C 20	$0.0 1 \qquad \mu \mathbf{F} - \mathbf{Z}$
IC 1	μΡС577Η	C 21	$0.01 \ \mu F - Z$
D 1	1 N6 0 P	C 22	$0.01 \ \mu F - Z$
D 2	1 N6 0 P	C 23	$0.01 \ \mu F - Z$
D 3	1 N6 0 P	C 24	$2 2 0 \mu F 1 0 V$
D 4	1 S 3 5 1	C 25	$\begin{array}{ccc} 0.0 \ 1 & \mu \mathbf{F} - \mathbf{Z} \\ 1.0 & \mathbf{F} \end{array}$
D 5	R D 9 A L	C 26	$\begin{array}{ccc} 1 & 0 & \mu F & 6 V \\ 1 & 0 & F & 6 V \end{array}$
D 6	1 S 9 5 3	C 27	$10 \mu F 6 V$
D 7	1 S 9 5 3	C 28	$0.01 \ \mu F - Z$
CAPAC	ITORS	C 29	$0.01 \mu F - Z$
		C 30 C 31	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C 1	1 0 PF - K	C 31 C 32	$\mu F - M$ 1 2 0 PF - K
C 2	8 $PF - K$	C 32 C 33	120 $FF - K0.0022 \mu F - M$
C 3	$0.0\ 0\ 1\ \mu F - Z$	C 34	$0.0022 \mu F - M$ $0.001 \mu F - M$
C 4	2 0 PF -	C 34 C 35	$0.001 \ \mu F - M$ $0.01 \ \mu F - M$
C 5	2 PF - K	C 36	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
C 6	$1 \qquad \mathbf{PF} - \mathbf{K}$	C 30 C 37	200 PF - N750
C 7 C 8	5 PF - N7 5 0 1 5 0 PF - K	C 38	$0.047 \mu F - M$
	150 PF - K		

OPERATING INSTRUCTIONS

TO TURN THE RADIO "ON".

The on-off switch is combined with the volume control, both of which are operated with the front left-hand knob. Turn this knob clockwise until a "click" indicates that the radio is "ON".

MANUAL TUNING

Turn the volume up until stations can be heard. Then turn the front right-hand knob until the desired station is received. The numbers on the dial scale indicate the frequency of the radio station to which the radio is tuned.

Tune carefully until you are exactly on the station; tuning to either side of station will result in poor tonal quality and noisy reception. After station is tuned in properly. Adjust the volume control to the desired level.

EXCHANGE OF FM & AM

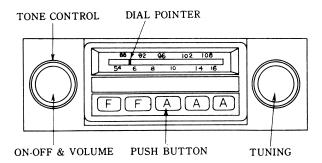
For medium wave push A button and for FM push F button them tune in station.

SETTING PUSHBUTTONS

- 1. Carefully tune-in the desired station with the MANUAL TUNING control. Tune exactly to the station.
- 2. Pull out the first pushbutton to be set, to unlock the button for station set-up, and the lock this button to the station which you have tuned-in by firmly pushing the button in.
- 3. Follow the above producer for the remaining four buttons.

TONE CONTROL

Tone control is located behind volume control.



STATION SELECTING FM-AM: Two for FM, three for AM. By pushing the button, you can listen to the station you prefer.

Schematic Description	Schematic Location	Description
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	R 36 R 37 R 38 R 39 R 40 R 41 R 42 R 43 R 44 R 45 R 44 R 45 R 46 R 47 R 48 R 49 R 50 R 51 R 52 R 53 R 54 R 55 R 55 R 56 R 57 R 58 R 59 R 60	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$ \begin{array}{cccccc} C & 64 & 7 & PF - K \\ C & 65 & 7 & PF - K \end{array} $	TRANS	FORMERS
C 66 0.01 μ F - M C 67 3 0 PF - K C 68 15 PF - K C 69 2 PF - K C 70 1 0 μ F - 1 0 V C 71 2 PF - N - 7 5 0 C 72 2 0 0 PF - K RESISTORS R 1 5 6 0 K $\frac{1}{4}$ K R 2 1 0 0 Ω $\frac{1}{4}$ K R 3 $\frac{1}{5}$ 5 3 3 K $\frac{1}{4}$ K R 6 3.9 K $\frac{1}{4}$ K R 7 1 K $\frac{1}{4}$ K R 8 3 3 0 Ω $\frac{1}{4}$ K R 8 3 3 0 Ω $\frac{1}{4}$ K R 11 1 5 K $\frac{1}{4}$ K R 12 4 7 0 Ω $\frac{1}{4}$ K R 13 1 0 0 K $\frac{1}{4}$ K R 14 5 6 0 K $\frac{1}{4}$ K R 15 2 0 0 K $\frac{1}{4}$ K R 16 5.6 K $\frac{1}{4}$ K R 17 2 7 K $\frac{1}{4}$ K R 18 4 7 0 Ω $\frac{1}{4}$ K R 19 3 3 0 Ω $\frac{1}{4}$ K R 22 1 K $\frac{1}{4}$ K R 22 1 K $\frac{1}{4}$ K R 23 1 8 K $\frac{1}{4}$ K R 24 1 8 K $\frac{1}{4}$ K R 25 1 0 0 Ω $\frac{1}{4}$ K R 26 1 K $\frac{1}{4}$ K R 27 1 0 K $\frac{1}{4}$ K R 28 4 7 0 K $\frac{1}{4}$ K R 29 2 2 0 Ω $\frac{1}{4}$ K R 27 1 0 K $\frac{1}{4}$ K R 28 4 7 0 K $\frac{1}{4}$ K R 30 2.7 K $\frac{1}{4}$ K R 31 8 2 Ω $\frac{1}{4}$ K R 33 1 0 K $\frac{1}{4}$ K R 34 1 K $\frac{1}{4}$ K	T1 T2 AMIFT1 AMIFT2 FMIFT1 FMIFT2 FMIFT3 CF1	INPUT TRANS FILTER CHOKE AM IF TRANS AM IF TRANS FM IF TRANS FM IF TRANS FM IF TRANS CERAMIC FILTER ,

SCHEMATIC DIAGRAM

