



RADIO CORPORATION PTY. LTD.

DIVISION OF ELECTRONIC INDUSTRIES LTD.

126-130 GRANT STREET, SOUTH MELBOURNE, S.C.A.

BULLETIN A-1.

File:- Receivers
Auto.

Date: 11/8/47.

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TECHNICAL BULLETIN

SUBJECT- "Astor" Car Radio Receivers Manufactured Since 1930.

These Receivers are NOT in production, information is for Service purposes only

MODEL—MICKEY MOUSE 6 Volt operation CHASSIS SERIES LETTERS—FA
MODEL—MICKEY MOUSE 12 Volt operation CHASSIS SERIES LETTERS—FA

12V. model marked with a printed label (12 volt) on outside of can under remote control.

Production period 1934, 35. 6 Tube B/cast Superhet. Receiver (Single Unit).

6 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM131.
12 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM132.

Tubes:- Type 78 RF. Amplifier.
Type 6A7 Converter.
Type 78 IF. Amplifier.
Type 75 Diode Detector, AVC. and 1st Audio.
Type 41 Power Output Amplifier.
Type 84 Full Wave Rectifier.

IF. = 173 Kc. Staggered as below:- .01MFD. mica capacitor in series with generator. Osl. gang shorted out during align.

1st IF. trans. pri. (bottom screw) peaked at 166 Kc.
1st IF. trans. sec. (top screw) peaked at 180 Kc.
2nd IF. trans. pri. (centre screw) peaked at 173 Kc.
2nd IF. trans. sec. (box nut) peaked at 166 Kc.

Alignment Points:- Dummy Antenna 200MFD. mica capacitor. Osl. Trimmer 1550 Kc. RF. and Antenna trans. trimmers 1400 Kc.

MODEL—220 6 Volt operation CHASSIS SERIES LETTERS—DA
MODEL—220 12 Volt operation CHASSIS SERIES LETTERS—DA

12V. model marked with a printed label (12 volt) on outside of can under remote control.

Production period 1935, 36 and 37. 6 Tube Broadcast Superheterodyne Receiver (Two Unit).

6 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM131.
12 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM132.

Tubes:- Type 78 RF. Amplifier.
Type 6A7 Converter.
Type 78 IF. Amplifier.
Type 6B7S Diode Detector, AVC. and 1st Audio.
Type 41 Power Output Amplifier.
Type 84 Full Wave Rectifier.

IF. = 173 Kc. Staggered as below:- .01MFD. mica capacitor in series with generator. Osl. gang shorted out during align.

1st IF. trans. pri. (screw) peaked at 166 Kc.
1st IF. trans. sec. (nut) peaked at 180 Kc.
2nd IF. trans. pri. (screw) peaked at 173 Kc.
2nd IF. trans. sec. (nut) peaked at 166 Kc.

Alignment Points:- Osl. trimmer 1550 Kc. RF. and Antenna trans. trimmers 1400 Kc. Dummy Antenna 200MFD. mica capacitor.

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SUBJECT- "Astor" Car Radio Receivers

MODEL—6395 6 Volt operation **CHASSIS SERIES LETTERS—CG**
MODEL—12395 12 Volt operation **CHASSIS SERIES LETTERS—HC**

Production period 1938 and 39. 5 Tube B/cast Superhet. Receiver (Two Unit).

6 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM131.
 12 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM132.

Tubes:- Type 6A8 Converter.
 Type 6K7 IF. Amplifier.
 Type 6B8 Diode Detector, AVC. and 1st Audio.
 Type 41 Power Output Amplifier.
 Type 84 Full Wave Rectifier.

IF. = 455 Kc. Staggered as below:-

.01MFD. mica capacitor in series with generator during alignment.
 1st IF. trans. pri. peaked at 451 Kc. sec. peaked at 459 Kc.
 2nd IF. trans. pri. peaked at 455 Kc. sec. peaked at 455 Kc.

Alignment Points:- Osci. trimmer 1550 Kc. Ant. trans. trimmer 1400 Kc.
 series pad condenser 600 Kc.

Dummy Antenna:-Part No. PM157. This dummy antenna consists of a 55MMFD.
 lead-in and a 40MMFD. mica capacitor fitted with a lead-in
 plug for fitting into receiver lead-in socket.

PRESS BUTTON ADJUSTMENT:-

- (a) Receiver fully installed in car. Switch receiver on for about 15 minutes to obtain normal operating temperature.
- (b) Insert a small bladed screw-driver through the hole in each push button, (the hole is covered by the station call letters) engage it in the slot of the screw head located inside the hole and turn in an anti-clockwise direction for one full turn. This loosens up the mechanism for adjustment.
- (c) Of the stations desired, first adjust the one which is located nearest the left hand side of the dial. Tune in this station by means of manual tuning knob on right hand side of receiver.
- (d) Push in left hand button to fullest extent making sure the station is still tuned in correctly. While maintaining pressure on button re-insert screw-driver and tighten screw by turning in a clockwise direction as firmly as possible.
- (e) Release button and repeat procedure with each desired station in turn, taking the buttons in rotation.
- (f) Check, by pressing each button to fullest extent and notice if stations are heard with no distortion or back-ground noise. If any station does not tune exactly with push button, repeat paragraphs (b) and (c).

CAUTION:- Do not attempt to set up or reset any button without first loosening its locking screw as described in paragraph (b).

Refer Bulletin CG/HC-1 for further details.



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TECHNICAL BULLETIN

SUBJECT- "Astor" Car Radio Receivers

MODEL—6386 6 Volt operation CHASSIS SERIES LETTERS—HE
MODEL—12386 12 Volt operation CHASSIS SERIES LETTERS—HF

Production period 1937, 38, 39. 6 Tube B/cast Superhet. Receiver (Two Unit).

6 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM131.
12 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM132.

Tubes:- Type 78 RF. Amplifier.
Type 6A7 Converter.
Type 78 IF. Amplifier
Type 75 Diode Detector, AVC. and 1st Audio.
Type 41 Power Output Amplifier.
Type 84 Full Wave Rectifier.

IF. = 173 Kc. Staggered as below:- .01MFD. mica capacitor in series with generator. Oscl. gang shorted out during alignment.

1st IF. trans. pri. (screw) peaked at 163 Kc. sec. (nut) peaked at 183 Kc.
2nd IF. trans. pri. (screw) peaked at 173 Kc. sec. (nut) peaked at 173 Kc.

Alignment Points:- Oscl. trimmer 1550 Kc. RF. and Ant. trans. trimmers 1400 Kc. Bridge antenna trans. lead lug and spark coil lead lug of synchro. tuner cond. during alignment. Dummy Ant. Part No. PM157. This dummy antenna consists of a 55MMFD. lead-in and a 40MMFD. mica capacitor fitted with a lead-in plug for fitting into receiver antenna lead-in socket.

Synchro. Tuning Condenser Adjustment:-

Receiver fully installed in car. Volume control full on. Tune in a barely audible distant station at high freq. end of dial and adjust synchro. tuner nut and screw clockwise or anti-clockwise for max. volume. Seal nut and screw with Ambroid Cement to prevent them from moving.

MODEL—6405 6 Volt operation CHASSIS SERIES LETTERS—AJ
MODEL—12405 12 Volt operation CHASSIS SERIES LETTERS—AK

Production period 1939, 40, 41, 42. 5 Tube B/cast Superhet. Receiver (Two Unit).

6 Volt vibrator:- 6 pin non sync. 150 cycle Part No. PM237.
12 Volt vibrator:- 6 pin non sync. 150 cycle Part No. PM238.

Tubes:- Type 6A8 Converter.
Type 6K7 IF. Amplifier.
Type 6B8 Diode Detector, AVC. and 1st Audio.
Type 6F6 Power Output Amplifier.
Type 0Z4G Full Wave Rectifier.

The 6B8 tube was changed to a 6Q7 tube with circuit modifications during 1939 as 6B8 tubes were not obtainable.

IF. = 455 Kc. .01MFD. mica capacitor in series with generator during IF. trans. alignment.

Alignment Points:- Oscl. trimmer 1550 Kc. Ant. trans. trimmer 1400 Kc. series padder 600 Kc. Dummy Antenna Part No. PM157.

This dummy antenna consists of a 55MMFD. lead-in and a 40MMFD. mica capacitor, fitted with a lead-in plug for fitting into receiver lead-in socket.

SUBJECT- "Astor" Car Radio Receivers

MODEL—6376 6 Volt operation **CHASSIS SERIES LETTERS—EE**
MODEL—6376F 6 Volt operation **CHASSIS SERIES LETTERS—FD**
MODEL—12376 12 Volt operation **CHASSIS SERIES LETTERS—FB**

Production period 1936, 37, 38. 6 Tube B/cast Superhet Receiver (Two Unit).

6 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM131.
 12 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM132.

Tubes:- Type 78 RF. Amplifier.
 Type 6A7 Converter.
 Type 78 IF. Amplifier.
 Type 6B7S Diode Detector, AVC. and 1st Audio.
 Type 41 Power Output Amplifier.
 Type 84 Full Wave Rectifier.

IF. = 173 Kc. Staggered as below:- .01MFD. mica capacitor in series with generator. Oscl. gang shorted out during alignment.

1st IF. trans. pri. (screw) peaked at 163 Kc. sec. (nut) peaked at 183 Kc.
 2nd IF. trans. pri. (screw) peaked at 173 Kc. sec. (nut) peaked at 173 Kc.

Alignment points:-Synchro. tuning condenser bridged with a short lead during alignment. Oscl. trimmer 1550 Kc. RF. and Antenna trans. trimmers 1400 Kc. Dummy Ant. 130 MMFD. mica capacitor.

Synchro. Tuning Condenser Adjustment:-

Receiver fully installed in car. Volume control full on. Tune in a barely audible distant station at high freq. end of dial and adjust synchro. tuner screw clockwise or anti-clockwise for max. volume.

MODEL—6376S 6 and 12 Volt operation **CHASSIS SERIES LETTERS—ED**

12V. model marked with a printed label (12 volt) on outside of can under remote control.

Production period 1936, 37, 38. 6 Tube B/cast Superhet. Receiver (Single Unit).

6 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM131.
 12 Volt vibrator:- 6 pin non sync. 100 cycle Part No. PM132.

Tubes:- Type 78 RF. Amplifier.
 Type 6A7 Converter.
 Type 78 IF. Amplifier.
 Type 6B7S Diode Detector, AVC. and 1st Audio.
 Type 41 Power Output Amplifier.
 Type 84 Full Wave Rectifier.

IF. = 173 Kc. Staggered as below:- .01MFD. mica capacitor in series with generator. Oscl. gang shorted out during alignment.

1st IF. trans. pri. (screw) peaked at 160.5 Kc. sec. (nut) peaked at 185.5 Kc.

2nd IF. trans. pri. (screw) peaked at 173 Kc. sec. (nut) peaked at 173 Kc.

Alignment Points:-Synchro. tuning condenser bridged with a short lead during alignment. Oscl. trimmer 1550 Kc. RF. and Antenna trans. trimmers 1400 Kc. Dummy Ant. 130 MMFD. mica capacitor.

Synchro. Tuning Condenser Adjustment:-

Receiver fully installed in car. Volume control full on. Tune in a barely audible distant station at high freq. end of dial and adjust synchro. tuner screw clockwise or anti-clockwise for max. volume.



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TECHNICAL BULLETIN

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MODEL—6396 6 Volt operation **CHASSIS SERIES LETTERS—EB**
MODEL—12396 12 Volt operation **CHASSIS SERIES LETTERS—AE**

Production period 1938 and 39. 6 Tube B/cast Superhet. Receiver (Two Unit).

6 Volt vibrator:- 6 pin non sync. 150 cycle Part No. PM237.
12 Volt vibrator:- 6 pin non sync. 150 cycle Part No. PM238.

Tubes:- Type 6K7 RF. Amplifier.
Type 6A8 Converter.
Type 6B8 IF. Amplifier, Diode Detector, AVC.
Type 6F8G Twin Triode Amplifier.
Type 6N7 Class "B" Twin Triode Amplifier.
Type 6X5 Full Wave Rectifier.

IF. = 173 Kc. .01MFD. mica capacitor in series with generator during IF. trans. alignment. Osci. gang plates shorted out during alignment.

Alignment points:-Osci. trimmer 1550 Kc. RF. and Ant. trans. trimmers 1400 Kc. Bridge antenna trans. lead lug and spark coil lead lug of synchro. tuner cond. during alignment.

Dummy Ant. Part No. PM157. This dummy antenna consists of a 55MMFD. lead-in, and a 40MMFD. mica capacitor fitted with a lead-in plug for fitting into receiver antenna lead-in socket.

Synchro. Tuning Condenser Adjustment:-.

Receiver fully installed in car. Volume control full on. Tune in a barely audible distant station at high freq. end of dial and adjust synchro. tuner nut and screw clockwise or anti-clockwise for max. volume. Seal nut and screw with Ambroid Cement to prevent them from moving.

MODEL—6406 6 Volt operation **CHASSIS SERIES LETTERS—AL**
MODEL—12406 12 Volt operation **CHASSIS SERIES LETTERS—AM**

Production period 1939 and 40. 6 Tube B/cast Superhet. Receiver (Two Unit).

6 Volt vibrator:- 6 pin non sync. 150 cycle Part No. PM237.
12 Volt vibrator:- 6 pin non sync. 150 cycle Part No. PM238.

Tubes:- Type 6K7 RF. Amplifier.
Type 6A8 Converter.
Type 6K7 IF. Amplifier.
Type 6Q7 Detector, AVC. and 1st Audio.
Type 6V6 Power Output Amplifier.
Type OZ4 Full Wave Rectifier.

IF.=173 Kc. (1st IF. transformer primary and secondary each staggered 8 Kc.)
.01MFD. mica capacitor in series with generator during IF. trans. alignment.
Osci. gang shorted out during alignment.

Alignment Points:-Osci. trimmer 1550 Kc. RF. and Ant. trans. trimmers 1400 Kc. Bridge antenna trans. lead lug and spark coil lead lug of synchro. tuner cond. during alignment. Dummy Antenna Part No. PM157. This dummy antenna consists of a 55 MMFD. lead-in and a 40MMFD. mica capacitor fitted with a lead-in plug for fitting into receiver antenna lead-in socket.

Synchro. Tuning Condenser Adjustment:-

Receiver fully installed in car. Volume control full on. Tune in a barely audible distant station at high freq. end of dial and adjust synchro. tuner nut and screw clockwise or anti-clockwise for max. volume. Seal nut and screw with Ambroid Cement to prevent them from moving.

Refer Bulletin AL/AM-1, ALL/AMM-1 for further details.

SUBJECT- "Astor" Car Radio Receivers

MODEL—6406 6 Volt operation CHASSIS SERIES LETTERS—ALL
MODEL—12406 12 Volt operation CHASSIS SERIES LETTERS—AMM

Production period 1940 to 46. 6 Tube Broadcast Superheterodyne Receiver
 (Two Unit).

6 Volt vibrator:- 6 pin non sync. 150 cycle Part No. PM237.
 12 Volt vibrator:- 6 pin non sync. 150 cycle Part No. PM238.

Tubes:-
 Type 6U7G RF. Amplifier.
 Type 6A8G or 6J8G Converter.
 Type 6U7G IF. Amplifier.
 Type 6B6G Detector, AVC. and 1st Audio.
 Type 6V6G Power Output Amplifier.
 Type OZ4G Full Wave Rectifier.

IF. = 173 Kc. (1st IF. transformer primary and secondary each
 staggered 8 Kc.)

• 0.1MFD mica capacitor in series with generator during IF. trans.
 alignment. Osci. gang shorted out during alignment.

Alignment Points:- Osci. trimmer 1550 Kc. RF. and Ant. trans. trimmers
 1400 Kc. Bridge antenna trans. lead lug and spark
 coil lead lug of synchro. tuner cond. during align-
 ment. Dummy Antenna. Part No. PM157. This dummy
 antenna consists of a 55MMFD. lead-in and a 40MMFD.
 capacitor fitted with a lead-in plug for fitting
 into receiver antenna lead-in socket.

Synchro. Tuning Condenser Adjustment:-
 Receiver fully installed in car. Volume control full on. Tune in a
 barely audible distant station at high freq. end of dial and adjust
 synchro. tuner nut and screw clockwise or anti-clockwise for max.
 volume. Seal nut and screw with Ambroid Cement to prevent them from
 moving.

Refer Bulletin AL/AM-1, ALL/AMM-1 for further details.