

21 STURT STREET, SOUTH MELBOURNE.

AUTO RADIO SERVICE BULLETIN - PARTS LIST AND RETAIL PRICE

MODEL 220

NUMBER	ITEM	RETAIL PRICE
<u>CASING AND CONTROLS.</u>		
2001	Steel case - lacquered	£. s. d. 18. 0
2006	Remote control unit only for steering column and instrument panel mounting Astor less steering column fittings or escutcheon	1.15. 0
2007	Remote control cable volume control with adaptor outside only 30"	5. 0
2008	Remote control cable volume control with adaptor outside only 23"	4. 6
2009	Remote control cable condenser drive with adaptor outside only 30"	5. 0
2010	Remote control cable condenser drive with adaptor outside only 23"	4. 6
2011	Remote control cable volume control with dogs inside only 30"	4. 0
2012	Remote control cable volume control with dogs inside only 23"	3. 6
2013	Remote control cable condenser drive with dogs inside only 30"	4. 0
2014	Remote control cable condenser drive with dogs inside only 23"	3. 6
2015	Lid contact spring	4
2016	Number and record plate	1. 0
2017	Installation Record original	1
2018	Installation Record carbon paper	1
2019	Installation Record duplicate	1
2021	Cable plate	9
2022	Cable plate packer	2. 0
2023	Volume control drive shaft bakelite	1. 0
2024	Volume control drive shaft sleeve	4
2025	Volume control drive shaft split collar	6
2026	Volume control drive shaft bracket and bearing	9
2027	Condenser control drive shaft insulating dog	6
2028	Condenser control drive shaft dog	6
2029	Condenser control drive shaft sleeve	6
2030	Remote control unit Astor for Ford instrument panel mounting complete with escutcheon and 23" cables	2. 7. 4

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NUMBER	ITEM	RETAIL PRICE
<u>CHASSIS & PARTS</u>		
		£ s. d.
2040	Three gang condenser assembly complete	1 10. 0
2041	Goat valve shields with clip base	1. 0
2042	Goat valve shields rubber rings	1
2043	Volume control	7. 0
2044	Sleeve for 3 watt resistor	2
2045	5 pin sockets	1. 0
2046	6 pin sockets	1. 0
2047	7 pin sockets	1. 0
2048	Filter choke Laminated	4. 0
2049	Filter choke Laminated sleeve	6
2050	Power transformer 6V without clamp	1. 0. 0
2051	Power transformer 12V without clamp	1. 0. 0
2052	Battery filter choke Assemb. in can complete	15. 0
2053	Battery filter choke Can only	1. 0
2054	Battery filter choke Spiral coil only	1. 0
2055	Honeycomb wound choke bobbin	2. 0
2056	Layerwound choke bobbin	2. 6
2057	Power transformer side clamp	1. 0
2058	2 hole Terminal strips	3
2059	Aerial filter choke complete in can	4. 0
2060	Fuse holder female section complete	6
2061	Fuse holder and aerial connector male section only	6
2062	Banana plug	4
2063	Banana plug socket	6
2064	No. 6 x 1/4" BH type A Parker Kalon Screws	2
2065	Chassis earthing springs	6
2066	Condenser mounting flange Bush brass	2
2067	Condenser earthing strip	3
2068	Paper condenser sleeve large	2
2069	Paper condenser sleeve small	2
2070	2 watt resistor sleeve	2
2071	Vibrator pad	1
2072	Variable condenser pad	6
2073	Astor set label	3

V A L V E S

301	Type 41	16. 6
302	Type 78	16. 6
303	Type 6A7	18. 6
305	Type 84	17. 6
2080	Type 6B7S	18. 0

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C O I L S

		£	s.	d.
2090	No. 1 Aerial Coil - Code Red	10.	0	
2091	No. 2 Aerial RF Coil - Code Yellow	10.	0	
2092	No. 3 Oscillator coil - Code Blue	10.	0	
2093	1st Intermediate Coil with Grid lead - Code Green	15.	0	
2094	2nd Intermediate coil without Grid lead - Code Black	15.	0	

RESISTORS & CONDENSERS

2100	20,000 ohm 3 watt carbon resistor	2.	9	
2101	10,000 ohm 2 " " "	2.	9	
2102	10,000 ohm 1/2 " " "	1.	6	
2103	2 megohm 1/3 " " "	1.	6	
2104	1 megohm " " " "	1.	6	
2105	1/2 " " " " "	1.	6	
2106	1/4 " " " " "	1.	6	
2107	100,000 ohm " " " "	1.	6	
2108	50,000 ohm " " " "	1.	6	
2109	10,000 ohm " " " "	1.	6	
2110				
2111	3,000 ohm " " " "	1.	6	
2112	7 ohm Wirewound 6V only	1.	6	
2113	10 ohm " 12V "	2.	6	
2114	45 ohm " " "	1.	6	
2115	200 ohm " " C/tapped 6V only	1.	6	
2116	6/10 mfd. Elec. condenser	14.	0	
2117	.02 mfd. 1500V Paper condenser	3.	6	
2118	.05 mfd. 400V " "	3.	0	
2119	.25 mfd. 200V " "	2.	6	
2120	.05 mfd. 200V " "	2.	6	
2121	.006 mfd. 200V " "	2.	6	
2122	.004 mfd. Mica condenser	2.	6	
2123	.002 mfd. " "	2.	6	
2124	.0005 mfd. " "	2.	6	
2125	.00025 mfd. " "	2.	6	
2126	.001 mfd. " "	2.	6	
2127	.00005 mfd. " "	2.	6	
2128	.00079 mfd. " "	2.	6	
702	Vibrator 6V.	1.	5.	0
703	Vibrator 12V.	1.	5.	0

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NUMBER	ITEM	RETAIL PRICE
<u>SUNDRIES</u>		£ s. d.
204	Condenser mounting grummetts 3/4" dia. rubber	3
206	Standard Grummett 5/8" rubber	3
219	Screen Grid Clips	2
220	" " clip springs	2
238	Fuse 10 amp.	3
243	Fuse Holder complete	9
2129	33" Battery lead assem. Male portion fuse box - no braid or shield	4. 0
2130	40" Battery lead assem. Male portion fuse box - no braid or shield.	4. 0
<u>SPEAKER AND PARTS</u>		
2201	Universal speaker S/41 6 ohm in mounting case 6V & 12V (state color when ordering)	2.16. 0
2202	Universal speaker only S/41 6 ohm only 6V and 12V.	1.10. 0
2203	Universal speaker S/41 Input transformer with sleeve	8. 0
2204	Universal speaker 6 ohm field coil 6 and 12V.	7. 0
2205	Universal speaker mounting case only - not colored	1.10. 0
2206	Tone switch	4. 0
2207	Tone switch knob	1. 0
RD2208	Red Header Bar Speaker Lead 7'3"	11. 0
BR2208	Brown " " " " "	11. 0
BL2208	Blue " " " " "	11. 0
GR2208	Green " " " " "	11. 0
2209	Dash panel speaker lead	5. 6
2210	No. 10 x 3/4" BH type A Parker Kalon screws	2
2211	Connecting cable clips	2
2212	Six pin plug	1. 0
2213	Mounting case body - not colored	1. 0. 0
2214	Mounting case bracket - not colored	5. 0
2215	Locking screws	2
2216	Hinge screws	2
BR2217	Universal Extension speaker in case 20' Lead 6 & 12V.	3.15. 0
2218	4 pin socket	1. 0
2219	Speaker grill	1. 9
2220	Speaker silk	1. 6
2221	" " gasket	2

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NUMBER	ITEM	RETAIL PRICE.
<u>ACCESSORIES</u>		
		£ s. d.
A1006	Spark plug suppressor	2. 6
A1006A	Distributor suppressor - screw in type	2. 6
A1007	Spark plug suppressor (special for Buick)	2. 6
A1008	Distributor suppressor - plug in type	3. 0
A1009	Metal covered suppressor condenser .5mfd.	3. 0
A1014	3/16" copper braid tinned	4d ft.
A1015	1/4" " " "	6d ft.
A1016	3/8" " " "	7d ft.
A1017	1" " " "	1. 4 ft.
A1022	Aerial staples	4d dz.
A1024	Pea lamp holder and lead	2. 6
A1025	Remote control escutcheon - Nash, Hudson, Terraplane, Hupmobile (with mtg. screws, washers)	5. 6
A1026	Remote control escutcheon - Plymouth, Chrysler, Dodge, De Soto, Reo (with mtg. screws, washers)	5. 6
A1028	Shielded lead-in with plug only 4'6"	5. 0
A1029	Cardboard drilling template Astor Blue	6
A1031	Remote control escutcheon Ford with mtg. screws and washers	5. 6
A1032	Junction box volume control assembly gauge	5. 0
A1033	" " tuning control " "	5. 0
A1034	60' Aerial wire - no plug or socket	4. 6
A1035		
A1036	5/16" Whitworth bolt with nut attached	7
A1037	Large round mounting washer	4
A1038	" " " " cut away	4
A1039	5/16" standard flat washers	2
A1040	5/16" " Whitworth nuts	2
A1041	Airplane remote control head with cables 30" steering column mounting complete with brackets	2. 7. 4
A1042	Airplane remote control head with cables 23" instrument board mounting less escutcheon	2. 2. 2
A1044	Condenser drive cables 30" long - inside and outside complete	9. 0
A1045	Condenser drive cable 23" long - inside and outside complete	8. 0
A1046	Volume control cables 30" long - inside and outside complete	9. 0
A1047	Volume control cables 23" long - inside and outside complete	8. 0
A1048		
A1049		
A1050		
A1051	Aerial lead in extension for Ford	4. 0

SERVICE NOTE.

12.11.35.

Astor Model "220" Automobile Radio
GMH Airchief " "

FILTER CONDENSER REPLACEMENT.

Should it be found necessary at any time to replace Filter condenser Block C21 & 22 it is desirable that same should be insulated from chassis.

In order to facilitate this operation, these condensers will in future be supplied complete with insulating jackets.

Most of the earlier models have an earthing strip soldered from condenser block can to chassis, this of course, should not be replaced.

CAUTION:

When removing tubes from sockets for either checking or replacement, care should be exercised in removing the grid clip - which is held in position by a spring clip - as it is possible to break grid connection from glass if suitable precautions are not taken.

PARTS LOCATION CHANGE:

Commencing from this date C5 will be located above base between L6 and V4.

SERVICE NOTE:

12.11.35.

Astor Model FA Automobile Receiver.
(GMH)

The following consists of a few hints in connection with receivers of the above model which may be returned for service.

It is desirable to change R4 on all receivers from 1000 to 500 ohms, this applies especially in cases of low gain.

Regarding possible complaints of distortion on high volume. This may be caused by a faulty volume control R11 which may have increased its resistance considerably. This may be overcome by fitting a 1 Meg resistor from the center lug of control to chassis.

Other possible sources of troubles are:

C24 leaking or broken down, this in turn may cause damage to R16 due to overheating.

C23 leaking - check for low voltage.

C19 leaking - check for plus voltage on 41 grid.

Complaints of vibrator crackle on the 12v. series may be overcome by inserting a 5mfd. electrolytic (with a .00025 mica condenser in shunt) from the junction of V5 and V6 filaments (which are in series) to frame. Negative side of electrolytic to frame.