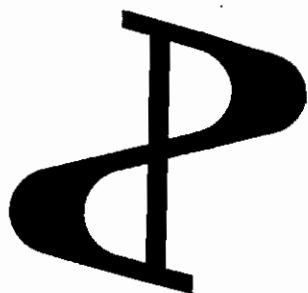


Components



Series 400 & 500

421/521 Stereo Amplifier

423/523 AM-FM Tuner

424/524 FM Tuner

426/526 FM Stereo Tuner amplifier

428/528 AM-FM Stereo Tuner amplifier

M4/M8 Stereo Radio Decoder

TRANSISTORS

Circuit Ref.	Type	Typical voltages —volts (Positive earth) Collector Base	Emitter
TR1	AF106	12	1.7
TR2	AF115	12	2.4
TR3	AF116	9.8	3
TR4	AF116	9.8	3
TR5	AF116	9.8	2.8
*TR6	AC139	2.3	0.02
TR7	AF116	7.2	2.3
TR8	AC128	7	1.4
TR9	AC128	3.5	0.6
TR10	AC128	7	0.02
TR11	AF116	6	1.3
TR12	AF116	6	1.3
†TR13	BC109 or ME4102	0.02	11
TR14	BSV44A	50	0.02
TR14A	AC128	12	0.02
TR14B	BSV44A	50	0.02
TR15	AF116	5	1.8
TR16	AF117	9.7	1.5
TR17	AF116	8.3	2.2
TR18	AF116	10	1.6
TR19	BC109 or ME4102	5	14.3
TR20	AC191 5	21	8

Circuit Ref.	Type	Typical voltages —volts (Positive earth) Collector Base	Emitter
TR21	AC191 5	17	8.2
TR22	XK1112	8.5	0.52
TR22A	AC191 7	8.5	0.52
TR22B	XK1112	8.5	0.52
TR23	AC139H	32	8.5
TR24	AC139Z	50	25.7
TR25	AL102	50	25.5
TR26	AC139Z	25	0.4
TR27	AL102	25	0.27
TR28	AC139H	51	12.2
TR29	AL102	70	50.5
TR30	AC139H	70	50.5
TR31	ME4102	2.7	5.3
TR32	AC134—	7.5	2.7
TR33	AC1914	32	8
TR34	BSV44A	50	25.5
TR36	BSV44A	25	0.4

Notes:

- 1 Voltages must be measured under no signal conditions with volume control at minimum.
 - 2 Readings of base voltages may be affected by the meter used.
 - 3 These typical readings assume that the HT is correctly set at 50 volts \pm 1 volt.
 - 4 Transistors TR19 to TR27 inclusive are duplicated in each channel.
 - 5 All transistors shown above, except BC 109, are specially selected types and should be obtained from Armstrong Audio Ltd.
- When ordering selected transistors please quote circuit reference.

COIL

Part number

RFC1

RFC2

FTA4

RFC3

FRO1

FRO1

RFC2

IFT24

IFT20

IFT20

IFT20

ED1

ED1

ED2

IFR

MLA1

MLR1

ML01

IFT21

IFT21

IFT22

* 100 ohms, po
meter to earth

Circuit Ref.	Value
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15880/4750

COILS AND TRANSFORMERS

Part number	Circuit ref.	DC resistance ohms
RFC1	L1	.75
RFC2	L2	.75
FTA4	L3	.2
	L4	.1
RFC3	L5	—
FRO1	L6	—
FRO1	L7	—
RFC2	L8	—
IFT24	L9	—
	L10	1.3
IFT20	L11	.3
	L12	.3
IFT20	L13	.3
	L14	.3
IFT20	L15	.3
	L16	.3
	L17	.3
	L18	.5
RDT3	L19	—
	L20	.55
ED1	L22	90 (tapped at 3.2 ohms)
ED1	L23	90 (tapped at 3.2 ohms)
ED2	L24	23 (tapped at 2.5 ohms)
	L25	.9 (centre tapped)
IFR	L26	—
	L27	3.5
MLA1	L28	33
	L28a	1.8
	L29	2.6
MLR1	L30	3.7
	L31	34
	L32	1.4
	L33	2.3
ML01	L34	6.4
	L35	0.5
IFT21	L36	10.5
	L37	4.5
IFT21	L38	4.5
	L39	4.5
IFT21	L40	4.5
IFT22	L41	6.4
	L42	*

* 100 ohms, positive of meter to earth 100K, negative of meter to earth (D7 is inside can).

Part number	Circuit ref.	DC resistance ohms
MAINS TRANSFORMER	L43	1.6
	L44	11
	L45	11
	L46	0.6 (centre tapped)
	L47	60
	L48	60

DIODES

D1-D7 inclusive OA79 or AA119
D8 Zener Diode LMx12A or IN4164
D9-D13 inclusive DD003 or PL4003
D14 Zener diode LMx12A or IN4164
D15 and 16 DD003 or PL4003

POTENTIOMETERS

VR1 50K LIN (FM quieting)
VR2 1K pre-set (adjust meter)
VR3 100K-100K LIN (bass)
VR4 100K-100K LIN (treble)
VR5 20K 95%-20K 5% (balance)
VR6 100K-100K S/LOG (volume)
VR7 8.2K pre-set
VR8 1K pre-set (adjust HT volts)
VR9 1K LIN pre-set (output level)

FUSES

F1 1A (20 mm×5 mm)
F2 1A (20 mm×5 mm)
F3 400 mA anti-surge (20 mm×5 mm)
F4 100 mA anti-surge (20 mm×5 mm)

PILOT LAMPS

(200 mA for 105-125V AC input)
423 & 424 523 & 524
P1 12V 0.1A MES 6.5V 1W LES
P2 12V 0.1A MES 6.5V 1W LES
P3 12V 0.1A MES 12V 1.5W LES
P4 10V 0.05A MES 10V 0.05A MES

425 & 426	525 & 526
P1 0.1A 12V	0.1A 6.5V }
P2 0.1A 12V	0.1A 6.5V }
P3 0.1A 12V	0.1A 12V
P4 0.05A 10V	0.05A 50V

Note:
1 Higher current lamp must not be used for P4.
2 On 523, 524, 525 & 526; P1 & P2 are wired in series.