

PYE - 1367

Transistor Table

Transistor	Emitter (V)	Base (V)	Collector (V)
TR1 { NKT72 2SA15 2SA201 }	0.68	0.78	5.2
TR2 { NKT72 2SA12C 2SA202 }	0.26	0.4	3.2
TR3 { NKT73 2SA12A 2SA198 }	0.65	0.8	5.3
TR4 { NKT73 2SA155 2SA160 }	—	—	—
TR5 { TG48 NKT275 2SB75C 2SB270 }	1.08	1.23	2.25
TR6 { NKT274 2SB75B 2SB270 }	2.07	2.25	4.8
TR7* { NKT271 2SB77B 2SB187 }	3.0	3.2	6.0
TR8* { NKT271 2SB77B 2SB187 }	—	0.15	3.0

* Matched pair.

Resistors

R1	5.6kΩ	A2
R2	30kΩ	B1
R3	1.2kΩ	A1
R4	75kΩ	B2
R5	500Ω	B1
R6	4kΩ	A2
R7	24kΩ	B2
R8	4.7kΩ	B2
R9	1kΩ	B1
R10	4.7kΩ	B2
R11	1.5kΩ	B2
R12	2kΩ	C1
R13	680Ω	C1
R14	30kΩ	C1
R15	500Ω	C2
R16	100Ω	C2
R17	1.8kΩ	C2
R18	100Ω	C2
R19	175kΩ	C1
R20	100Ω	C2
R21	1.8kΩ	C2
RV1	5kΩ	A1

Capacitors

C1	—	A1
C2	—	A1
C3	—	A1

C4	85pF	B1
C5	—	A1
C6	0.01μF	B1
C7	0.01μF	A1
C8	10pF	A1
C9	220pF	B1
C10	70pF	A1
C11	—	A2
C12	310pF	A1
C13	—	A1
C14	—	A2
C15*	8pF	B2
C16	30μF	B2
C17	0.04μF	B1
C18	—	B2
C19	0.02μF	B2
C20	0.02μF	B2
C21*	14pF	B2
C22	0.04μF	B1
C23	—	B2
C24	0.02μF	C2
C25	0.02μF	B2
C26	5μF	C1
C27	30μF	C2
C28	100μF	B1
C29	5,000pF	C2
C30	120pF	C1
C31	100μF	C2
C32	100μF	C2

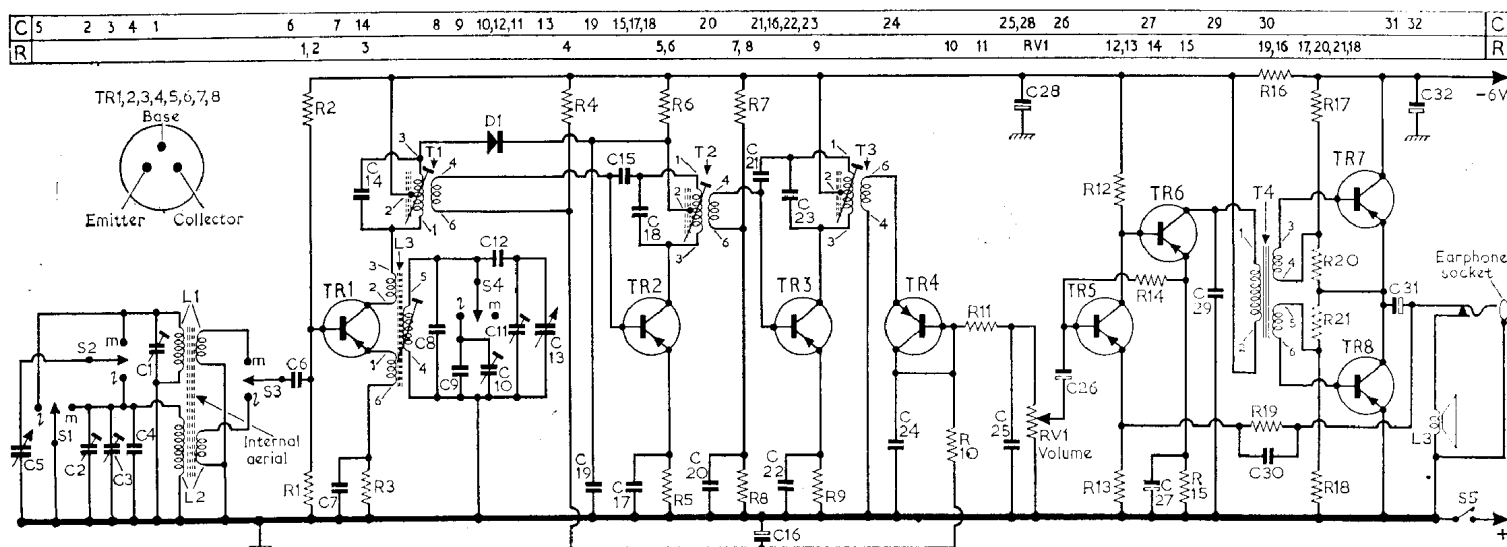
Coils and Transformers

L1	—	A1
L2	—	C1
L3	8Ω	A2
T1	—	A2
T2	—	B2
T3	—	B2
T4	—	C2

Miscellaneous

D1	{ 1N60 74Q1665C 1S426 }	A2
S1-S4	—	A2
S5	—	A1

* When Sanyo transistors are fitted in positions TR2 and TR3, C15 is 6pF and C21 is 9pF.



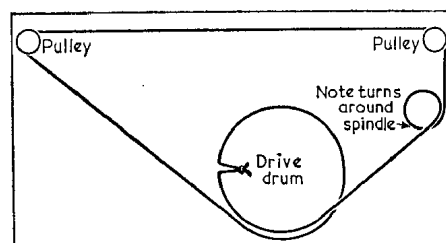
CIRCUIT ALIGNMENT

Equipment Required.—An a.m. signal generator; an r.f. coupling loop and two 0.1μF capacitors.

- 1.—Switch receiver to m.w. and tune to the high frequency end of the scale. Set the volume control at maximum. Connect the signal generator, with a 0.1μF capacitor in each lead, between chassis and the switch side of C6.
- 2.—Feed in a 470kc/s 30 per cent modulated signal and adjust the cores of T3, T2 and T1 in that order for maximum audio output.
- 3.—Connect the signal generator to the r.f. coupling loop and loosely couple the

loop to the receiver by placing it about 15in from the ferrite rod. Tune receiver to 500m. Feed in a 600kc/s signal and adjust the core of L3 and the position of L1 on the rod aerial for maximum output.

- 4.—Tune receiver to 200m. Feed in a 1,500kc/s signal and adjust C11 and C1 for maximum output.
- 5.—Repeat operations 3 and 4 until the calibration is correct, then seal the position of L1 with polystyrene dope.
- 6.—Switch receiver to l.w. and tune to 1,800m. Feed in a 170kc/s signal and adjust C10 and the position of L2 on the rod aerial for maximum output.



Drive cord assembly viewed from the front

- 7.—Tune receiver to 1,200m. Feed in a 250kc/s signal and adjust C3 and C2 for maximum output.
- 8.—Repeat operations 6 and 7 until tracking is correct then seal L2 with polystyrene dope.