

## STANDARD SUPPRESSORS FOR P.O. APPARATUS

[NOTE:- This Instruction has been revised to take account of the Post Office Act 1969 and individual paragraphs have not therefore been 'starred']

1. **General.** From time to time, standard suppressors are specified for various types of P.O. plant. It had been intended to devote a separate E.I. to each standard suppressor, but as a war-time economy measure information regarding all types of standard suppressors has been summarized briefly in the present Instruction. This E.I., which it is intended to revise periodically, gives in Table 1 a complete list of all P.O. plant for which standard suppressors have been prescribed, together with a reference to the relative E.I. or Works Specification. If no E.I. or Works Specification exists for a particular case, details of the suppressor are given.

2. The procedure to be followed when P.O. plant is involved in interference complaints is described in A 3006.

TABLE 1

Item	E.I. referring to suppression	R.B. designation of suppressor	Remarks
Bells Nos. 43A, 56A, 56C, 56E	-	Filter, Suppression, No. 12	The filter is incorporated as standard
Bells No. ... (other than above)	TELES., Gen., D 5901	Filter, Suppression, No. 12  Filter, Suppression, No. 6A	The filter should be fitted locally if required. If suppression is inadequate, replace the suppressor by a "Condenser, Tubular, No. 1/1C, 0.25 $\mu$ F.", and add "Inductors, R.F., No. 7B" in series with the battery leads, if necessary  <i>Note 1.</i> "Bell No. 65A" incorporated in Teles. Nos. 326CB, 327 CB, 392 LB, and 393 LB has a "Filter, Suppression, No. 6A" fitted as standard  <i>Note 2.</i> "Filter, Suppression, No. 14J" has been introduced specially to give a high degree of suppression on short waves. It is intended specially for "Bells Nos. 44B and 56C"
Buzzers Nos. 18 & 20	-	Filter, Suppression, No. 12	The filter is incorporated as standard
Buzzers No. 24A, un-mounted, incorporated in Bell-set No. 39 (used with Telephone No. 248 CB, minus base)	TELES., Gen., D 5901	Filter, Suppression, No. 6A	The filter is incorporated as standard for suppressing interference caused by the buzzer only

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Buzzers No. ... (other than above)	TELES., Gen., D 5901	Filter, Suppression, No. 6A	The filter should be fitted locally if required
Clocks No. 46	RADIO, Intfce., C 3902	1-Inductor, R.F., No. 7B 1-Condenser, M.C., No. 113Y 1-Condenser, M.C., No. 116Y	Stocks of "Condensers, M.C. Nos. 113Y and 116Y" may be exhausted soon. When they are unobtainable, use other suitable condensers of similar capacitance, e.g. "Condensers, Tubular, 1/1C, 0.25 and 0.1 $\mu$ F"
Dials, Auto., Nos. 10 & 11	TELES., Gen., D 5901	Filter, Suppression, No. 6 or 6B	
D.T.N. equipment other than teleprinters	RADIO, Intfce., F 0006	See next column	Full details of the R.B. suppressors and methods of fitting are given in Works Specn. TG C887 obtainable from THQ (TD5)
Hooters No. ...	-	-	No R.B. suppressor. A 0.1, to 0.25 $\mu$ F. condenser (Condenser, Tubular, 1/1C, 0.1 or 0.25 $\mu$ F.) across terminals is suggested
Motors, Electric, D.C.	-	Units, Condenser, Nos. 6Y & 7Y	"Units, Condenser, Nos. 6Y or 7Y" are usually adequate without using R.F. inductors
Motor-generators Nos. 5 & 5A	-	Inductors, R.F., No. 7B	Ringling and tone generator for tele. exchs. Tone-interrupter interference suppressed by connecting an "Inductor, R.F., No. 7B" in series with each tone output lead. The inductors may be mounted in "Case, Filter, Suppression, No. 7"
Motor-generators for exch. battery charging	-	Units, Condenser, Nos. 6Y & 7Y	"Units, Condenser, Nos. 6Y & 7Y" are usually adequate without R.F. inductors
Overhead lines	LINES, Ohd., E 3004	Inductor, R.F., No. 7A	Inductors should only be fitted to overhead lines as a last resource, see A 3006
Petrol-engine battery-charging sets (interference caused by ignition system)	RADIO, Gen., C 0437	-	The E.I. quoted deals with interference caused by petrol-driven motor vehicles. Pars. 5, 7, 8 & 9 are applicable to the single-cylinder stationary engine
Rectifiers Nos. 1 to 6A (Tungar)	-	Units, Condenser, Nos. 6Y & 7Y	A condenser unit connected to the mains input terminals is usually adequate

Item	E.I. referring to suppression	R.B. designation of suppressor	Remarks
Relays, Telegraph, all types (excepting Relay, Static, No. 1 AN)	-	Filter, Suppression, No. 14A	The filter is primarily designed for D.T.N. equipment, see Works Specn. TG 0887, obtainable from THQ (TD5)
Telephones Nos. 250, 306, 307, 308CB, 326, CB, 327 CB, 328..., 329..., 330..., 331..., 332..., 333..., 392 LB, 393 LB, 394 LB, 395 LB, 396 LB, and 397 LB	TELES., Gen., D 5901	Filter, Suppression, No. 6A, etc. (see remarks column)	As standard, a condenser is incorporated, connected across the transmitter inset, and a "Filter, Suppression, No. 6A" is fitted to trembler-bells if incorporated. If necessary, an additional "Filter, Suppression, No. 6A" should be connected across the automatic dial
Telephones No. ... (other than above)	TELES., Gen., D 5901	Filters, Suppression, Nos. 6, 6A, 6B	
Teleprinters Nos. 3A, 3X, 3Y, 3Z			No R.B. suppressor. Suppressors electrically identical to those used for "Teleprinters No. 7" (see TGFHS., Teleptr., C 1012) are satisfactory, and should be made-up locally from components listed in TGFHS., Teleptr., C 3911
Teleprinters Nos. 7A and 7B	TGFHS., Teleptr., C 1012 and C 3911	Filters, Suppression, Nos. 9, 10, 11, 13; Condensers, Tubular, No. 1/1C, 0.01 $\mu$ F.	
Transmitters, Inset, No. ...	TELES., Gen., D 5901	Filter, Suppression, No. 6. (Refer to the type of telephone concerned)	
Vibrators No. ...	RADIO, Intfce., F 0006 (last entry in Table 1)	Inductors, R.F., No. 7B, and Condensers, Tubular, No. 1/1C, 0.1 $\mu$ F.	

References:- A 3006, C 3902, F 0006  
 (NP8.1) LINES, Overhead, E 3004  
 RADIO, General, C 0370, C 0437  
 TELEGRAPHS, Teleprinter, C 1012, C 3911  
 TELEPHONES, General, D 5901

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