

there are two stations transmitting on 80 metres, and another on 14090kHz. At the time of going to press there are 18 different stations transmitting the bulletin at various times during the Sunday from 1130 to 2030 local time. Most of the transmissions take place, as mentioned above, at about mid-day. Full particulars of the BARTG news bulletin schedules are given in the quarterly *Newsletter*.

Contests

Throughout the year a number of RTTY contests are organised. The results of the HF contests contribute to a World-wide RTTY championship. BARTG sponsors two of these contests, an HF one held in the Spring and a VHF one held in the Autumn. There are also many other contests organised by various national societies, and for information on these the BARTG *Newsletter* is invaluable.

So all that I can wish you is good luck in your efforts. The thrill of your first QSO using RTTY will be something to remember.

Names and addresses: Secretary

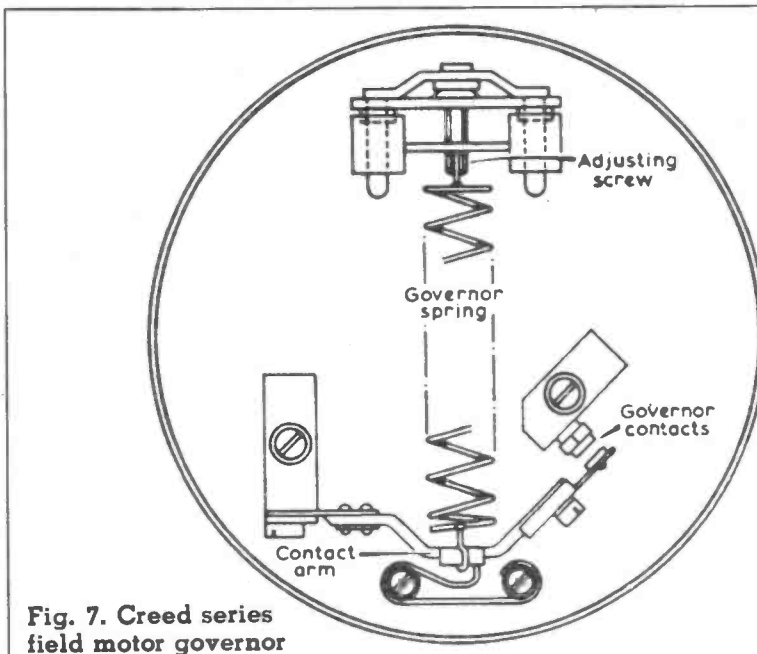


Fig. 7. Creed series field motor governor

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chester, Essex CO7 7SF.

The annual subscription to BARTG is £3.50 with a joining fee of 50 pence. Acknowledgement is made to the British Amateur Radio Teleprinter Group for certain subject matter and circuitry used in this article.

PM COMPONENTS LTD. VALVE & COMPONENTS SPECIALISTS

SELECTION HOUSE, WROTHAM ROAD, MEOPHAM GREEN, MEOPHAM, KENT

PHONE 0474 813225. TELEX 966371 PM COMP

NEW BRANDED VALVES

NEW BRANDED VALVES				PCL84 0.85		6AF4A 2.50	12AT7 0.85	INTEGRATED CIRCUITS		SEMICONDUCTORS		BF199 0.14	TIP29C 0.42
A2087 11.50	ECC807 2.50	EY84 6.95	PCL85 0.80	GAG7 1.95	12AT7WA 0.85	AN214Q 2.50	AC127 0.20	BC10708 0.15	BF200 0.40	TIP30C 0.43			
A2134 14.95	ECF80 0.72	EY86/87 0.50	PCL86 0.85	6AH6 1.50	12AU6 1.50	AN240 2.80	AC128 0.20	BC117 0.09	BF258 0.28	TIP31C 0.42			
A2293 6.50	ECF82 0.60	EY88 0.55	PCL805 0.90	6AJ7 2.00	12AU7 0.55	LA4400 4.15	AC141K 0.34	BC1172 0.10	BF259 0.28	TIP32C 0.42			
A2900 11.50	ECF86 1.70	EZ80 0.60	PD500 3.50	6AK6 2.00	12AV6 0.80	LA4422 2.50	AC176 0.22	BC11738 0.10	BF336 0.34	TIP41C 0.45			
C1148A 115.00	ECF808 10.25	EZ81 0.60	PFL200 1.25	6AL5 0.52	12AX7 0.85	LA4422 2.50	AC176K 0.31	BC1182 0.10	BF329 0.30	TIP42C 0.47			
DAF91 0.45	ECH3 2.50	EZ90 0.96	PL36 0.95	6AM4 3.25	12AX7WA 2.50	LC7120 3.25	AC187 0.25	BC1183 0.10	BF354 0.26	TIP47 0.65			
DAF96 0.65	ECH35 1.60	G1/371K 0.80	PL81A 0.72	6AM5 6.00		LC7130 3.50	AC187K 0.28	BC1194 0.10	BFX85 0.32	TIP2955 0.80			
DAF96 0.65	ECH35 1.60	G1/371K 0.80	PL84 0.65	6AN5 3.95		LC7137 5.50	AC188 0.25	BC1212 0.09	BFX86 0.30	TIP3055 0.55			
DET22 28.00	ECH42 1.00	30.00	PL505 0.95	6A05 1.20	12AY7 2.50	LC7137 5.50	AC188 0.25	BC1212L 0.09	BFX88 0.25	TIS91 0.20			
DET24 35.00	ECH48 0.58	G55/1K 9.00	PL504 0.95	6A55 1.50	12AZ7A 1.95	ML2312 0.76	AD142 0.70	BC1213 0.09	BFY50 0.21	2N3054 0.59			
DF91 0.70	ECH84 0.69	GS10C 12.00	PL508 1.95	6AS7G 7.50	12B8A 1.90	ML2318 1.75	AD161 0.39	BC1213L 0.09	BFY51 0.21	2N3055 0.52			
DF92 0.80	ECL80 0.60	GXU50 12.50	PL509 4.85	6AT6 0.75	12B8B 1.50	SL9018 4.85	AD161/2 0.90	BC1237 0.10	BFY52 0.25	2N3702 0.12			
DF96 0.65	ECL82 0.65	GY501 1.20	PL519 4.95	6AU6 0.55	12B8B 1.50	SN7603N 1.95	AD162 0.39	BC1238 0.10	BFY59 0.77	2N3704 0.12			
DK91 0.90	ECL84 0.74	PY88 0.82	PL802 8.50	6AV6 0.72	12B8B 1.50	SN7613N 1.30	AF12 0.34	BC1307 0.09	BT106 1.49	2N3705 0.12			
DK92 1.20	ECL86 0.74	GZ32 1.00	PY800 0.79	6BA8 0.69	12BY7A 2.75	TA7051AP 3.95	AF125 0.35	BC1327 0.10	BT108 1.49	2N3708 0.12			
DK96 2.50	ECL800 16.95	GZ37 2.15	PY801 0.79	6BA7 4.50	12E1 17.95	TA7120 1.65	AF126 0.32	BC1341 0.35	BT116 1.20	2N5294 0.48			
DL92 0.60	EF37A 2.00	GZ37 4.50	QOV02-6 12.75	6BA8A 3.50	12GN7 3.95	TA7130 1.50	AF127 0.32	BC1347 0.20	BU105 1.22	2N5296 0.48			
DL96 2.50	EF39 1.00	KT61 3.50	QOV03-10 5.50	6BB6 0.72	12GN7 3.95	TA7130 1.50	AF139 0.40	BC1347 0.20	BU108 1.89	2N5496 0.65			
DL96 2.50	EF42 3.50	KT66 USA 6.95	QOV03-20A 18.50	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU106 2.00	BC1349 0.20	BU124 1.00	2N5496 0.65			
DM160 2.75	EF48 1.00	KT77 USA 7.95	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU107 1.75	BC1357 0.08	BU205 1.30	2N5496 0.65			
DY86/87 0.65	EF80 0.58	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU110 2.00	BC1358 0.10	BU208 1.39	2N5496 0.65			
DY802 0.72	EF83 3.50	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU113 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E80CC 7.00	EF85 0.50	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU114 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E80CC 13.50	EF86 0.95	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU115 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E80F 13.50	EF89 0.85	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU116 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E81CC 3.50	EF91 1.25	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU117 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E82CC 3.50	EF92 2.50	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU118 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E83CC 3.50	EF93 0.89	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU119 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E83F 3.50	EF94 0.55	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU120 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E86C 9.50	EF183 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU121 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E88C 6.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU122 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E88CC 2.60	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU123 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E130L 19.95	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU124 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E180F 6.50	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU125 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E182CC 9.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU126 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU127 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU128 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU129 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU130 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU131 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU132 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU133 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU134 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU135 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU136 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU137 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU138 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU139 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU140 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU141 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU142 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU143 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU144 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU145 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU146 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU147 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU148 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU149 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU150 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU151 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU152 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU153 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU154 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU155 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU156 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU157 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU158 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU159 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU160 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU161 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU162 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU163 2.95	BC1361 0.32	BU208A 1.52	2N5496 0.65			
E810F 16.00	EF184 0.65	KT88 UK 12.50	QOV06-40A 18.00	6BB6 1.00	12GN7 3.95	TA7130 1.50	AU164 2.95	BC136BB					