Service Bulletin

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SB/RG/37 HOME

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RB340 - REVISED OPEN-CIRCUIT VOLTAGE CHECKING AND SETTING PROCEDURE

A more reliable method of checking and setting the open-circuit voltage of RB340 Control Boxes is now recommended. Improved production techniques also permit a simplified approach to the problem, so that some of the earlier confusion over different setting and checking limits will be avoided.

Basically, a regulator checked and found to be stable at not more than ½ volt above or below the checking limit (see Table 1) must be reset to the nearest high or low limit. Under normal circumstances if the setting is more than ½ volt out, the regulator can be considered faulty and should be replaced.

Regulators should always be checked at normal ambient temperature (0° - 25°C), but if sufficient time for cooling is not available, settings in the higher ambient temperature range must be used.

TABLE 1 - CHECKING AND SETTING LIMITS IN SERVICE:-

AMBIENT TEMPERATURE	O.C. VOLTAGE CHECKING	IF BETWEEN	RESET TO
0° - 25°C (32° - 77°F)	14½ - 15½V	14 - 14½V 15½ - 16V	14½V 15½V
26° - 40°C (78° - 104°F)	14¼ - 15¼V	13¾ - 14¼ 15¼ - 15¾	14¼V 15¼V

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SETTING FOR REPAIRED UNITS

If the original O.C. setting has been disturbed or if the contacts have been serviced, the regulator should be re-set 'cold' to the following figure for each corresponding ambient temperature range.

TABLE 2

AMBIENT TEMPERATURE	O.C. VOLTAGE RE-SET
0° - 25°C (32° - 77°F)	14¾V
26° - 40°C (78° - 104°F)	14½V

NOTE Adjustment of regulator open-circuit voltage should be completed within 30 seconds, otherwise heating of the shunt winding will cause a false setting to be made.