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## Circuit Board Modification - Encoder Filter

**Overview**: Spurious glitches output by the Bourns encoder (08-03-0250) require additional filters to be added. Affected encoders have a date code of 2144 and later.

**Components:** 6 x Capacitor – 10nF 06-03-0147 (1206)

3 x Resistor – 10k 06-01-1311 (1206)

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Product(s):	Titan Mobile & Quartz
	MMB 1201-5015CA & MMB 1201-5015CB
Existing Circuit:	AVSS
	The state of the s
	vcc WH1 R26 □ □ R20
	VCC ENCODER1 R24 100K 1 120K
	22uF ± 2/vcc B 1 200 WH-CLK1
	SMD 4 GND A 3 R19 C25 P1 C27
	NOT FITTED = 1K19 C26 + 1 C27 10K
	NOT FITTED.
	<u>+</u>
	.vcc
	1
	WH2 R21 R23 R33 120K
	$C35 \leftarrow 2 \leftarrow 1  \frac{1}{1}  T T \qquad \text{where}$
	SIND E BOO
	NOT FITTED - 1K OPT - 10K
	NOT FITTED 1
	_
	VC.
	wнз ва R36 ф R37
	ENCODER1 R34 100K 120K
	22UF ± 2 VCC B 1 WH-CLK3
	SMD 4 GND A 3 WH-DAT3
	NOT FITTED = 1K35 C36
	NOT FITTED - 10K
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Circuit Replacement Location:	Encoder A:  10 E Consoiter replacement at leastion B20 and B26
Location:	10nF Capacitor replacement at location R20 and R26.
	10k Resistor replacement at location C26.  Encoder B:
	10nF Capacitor replacement at location R23 and R33.
	10k Resistor replacement at location C33.  Encoder C:
	10nF Capacitor replacement at location R36 and R37.
	10hr Capacitor replacement at location R36 and R37.
	TOK NESISTOL TEPLACEMENT AT IOCATION CSO.

