


Avolites LTD Engineering Change Notice

ECN title	220R resistor mod for BGE encoders		
ECN Number	ECN-0215		
Related Product(s)	Titan Mobiles with BGE encoders SN from TM-5672		
Date / Author	22/09/2022	GK	
Reasons for ECN	BGE encoder counting too fast		
Parts required	8200-0215 Titan Mobile ECN 215		
Tools required	T20 driver and hot glue gun		
Estimated time	10 minutes		

Important information

We have had a case of new type of Encoders – BGE - are counting too fast. We start using BGE Encoders from SN TM-5672 but there's still a possibility of finding Bourns Encoders in the unit. In the case of BGE Encoders are fitted on MMB board insert the 220R resistor on MMB board – BOOT2 and update the firmware for improving unit usage. In case Bourns Encoders are fitted DO NOT fit the resistor. Details below.

1. Inspection steps

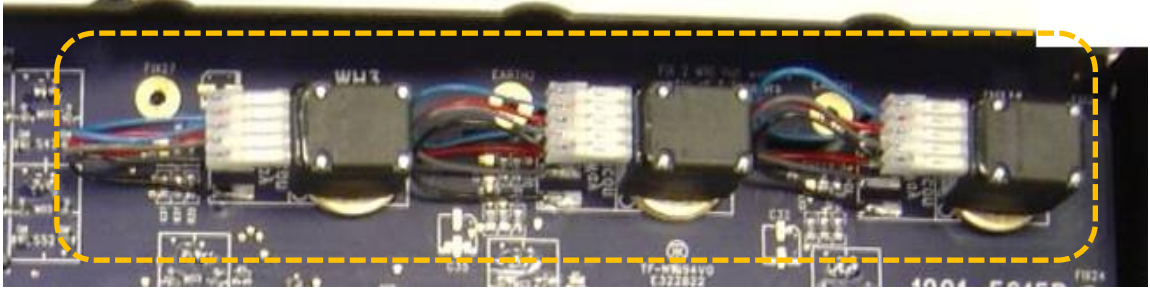
Open the Lid by removing the following 6x screws.



Locate the Encoders mounted to MMB board
Visually Check the Encoder manufacturer

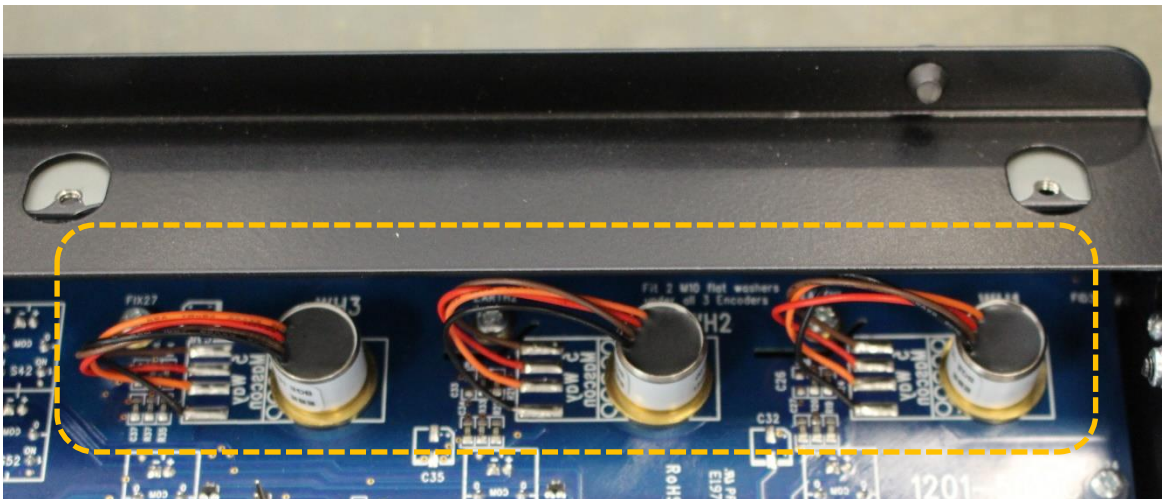
a. The Bourns (old type) Encoders

In case Bourns Encoders are fitted (photo below) the unit doesn't need any further action
Discard the supplied 220R resistor and close the unit with the lid and retained 6x fixings



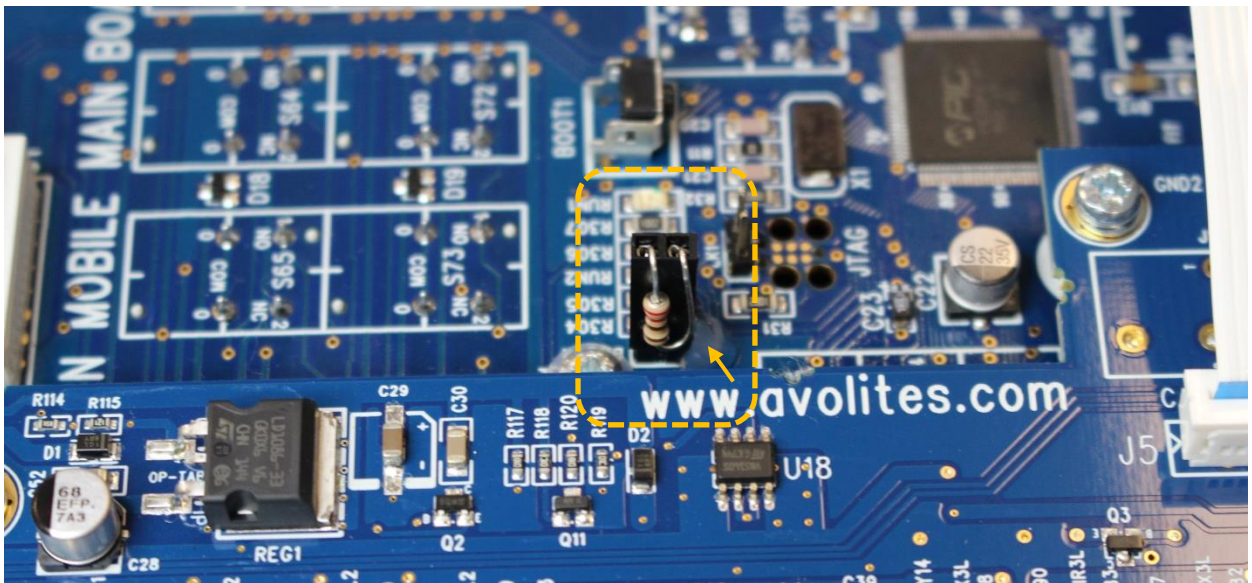
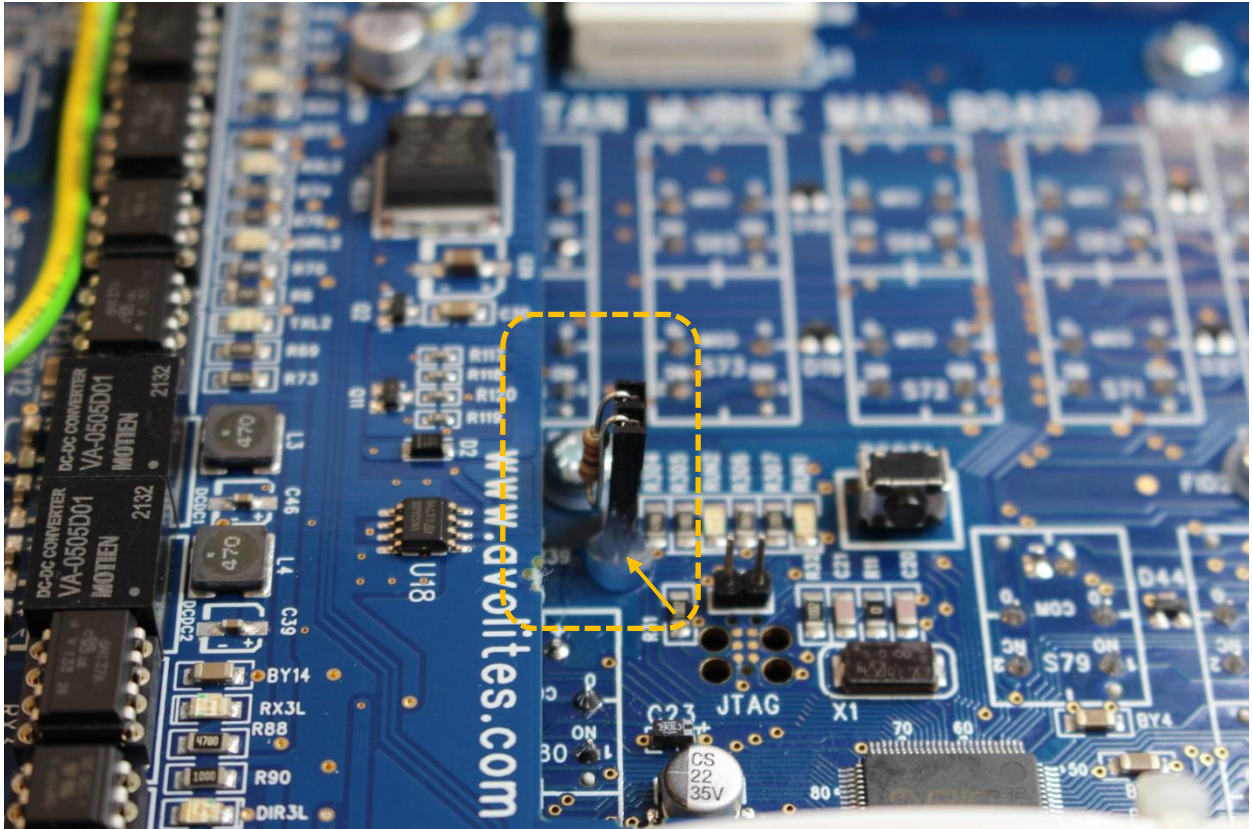
b. The BGE Encoders

In case BGE Encoders are fitted (photo below) follow the instruction in subsection 2. Modification



2. Modification

Fit the supplied 220R resistor onto **BOOT2** header on MMB board then secure it with hot glue (arrow)



Update the firmware to: **Aug 26 2022**

Close the unit with the lid and retained 6x fixings