

# Engineering Bulletin

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**ECLIPSE**  
Engineering Bulletin No:

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**Product : All VHF, UHF Eclipse exciters and receivers**

**Topic : Jumpers added in new revision PCBs**

**Date : 20/02/2004**

New revision PCBs have been released and used in the latest batch of Eclipse TX and RX product. The PCB upgrades are mainly the addition of new jumpers and tracks to facilitate a number of operation scenarios for customer requirements. The default factory jumper settings on the PCB maintain the functionality of the early version TX and RX PCBs. Please refer to the new release schematic diagrams and PCBs to configure the Eclipse products for your application.

The details of the upgrades are as following:

## **Eclipse exciters:**

New PCBs Part number: 30/9103/0010 (Rev.10)  
30/9116/0005 (Rev.5)  
30/9133/0007 (Rev.7)

- % Two-pin jumper JP17 is added to allow the tone input's 250Hz low pass filter to be bypassed. With digital signal input, the low pass filter could produce slight "ring" distortion. The default factory setting is JP17 not connected.
- % Pin 18 of DB25 connector (P3) can be used as a straight through DCS or low frequency digital data input by removing two-pin jumper JP22 and setting three-pin jumper JP16 to (2-3). The default factory setting is JP22 inserted and JP16 setting to (1-2).
- % Pin7 of DB25 connector (P3) can be used as Alarm output by setting three-pin jumper JP19 to (1-2). The default factory setting is JP19 (2-3).
- % The six-pin jumper JP23 is used for the DMTX application by connecting pin 2-3 and pin 4-5, The default factory setting is JP23 connecting pins 1-2 and pin 5-6.
- % JP15 pin 6 is connected to the base of Q24 to allow the DMTX board to directly assert PTT.

## **Eclipse receivers:**

New PCBs Part number: 30/9132/0002 (Rev.2)  
30/9131/0004 (Rev.4)  
30/9130/0006 (Rev.6)

- % A three-pin jumper JP13 is added to allow pin19 of DB25 connector P1 as a independent COS. signal output by connecting pin 2-3 of JP13. The default factory setting is JP13 (1-2).
- % Pin7 of DB25 connector P1 can be used as Alarm output by setting the three-pin jumper JP19 to (2-3). The default factory setting is JP19 (1-2).

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