

Technical Bulletin

No: 143 – Replacing Obsolete VCA 2150A

Radio Systems part **5712** (VCA 2150A) is no longer available. The replacement is Radio Systems part **15340** (VCA 2181LB). This part is an improved version of the 2150A and requires circuit modification as described below. In all cases the circuit board must be removed to facilitate component replacement. As with all electronic devices make sure you are properly grounded and observe anti-static precautions.

#1 SIX CHANNEL AUDIO BOARD (5840; 5840A)

- A. Carefully de-solder and remove the old VCA.
 - If replacing **U5**, remove **R72** and **R71**.
Replace **R71** with a 221K 1/4W 1% resistor*. **R72** is not replaced
 - If replacing **U6**, remove **R67** & **R69**
Replace **R67** with a 221K 1/4W 1% resistor*. **R69** is not replaced
- Install and solder the new VCA

#2 OUTPUT BOARD (8584)

- A. Carefully de-solder and remove the old VCA.
 - If replacing **U25**, remove **R156** and **R157**.
Replace **R156** with a 221K 1/4W 1% resistor*. **R157** is not replaced
 - If replacing **U26**, remove **R158** & **R161**
Replace **R161** with a 221K 1/4W 1% resistor*. **R158** is not replaced
 - If replacing **U28**, remove **R204** and **R206**.
Replace **R204** with a 221K 1/4W 1% resistor*. **R206** is not replaced
 - If replacing **U31**, remove **R225** & **R227**
Replace **R225** with a 221K 1/4W 1% resistor*. **R227** is not replaced
 - If replacing **U32**, remove **R226** & **R228**
Replace **R226** with a 221K 1/4W 1% resistor*. **R228** is not replaced
- Install and solder the new VCA

#3 OUTPUT BOARD (14800; 14800A; 14800B)

- A. Carefully de-solder and remove the old VCA.
 - If replacing **U1**, remove **R30** and **R31**
Replace **R31** with a 221K 1/4W 1% resistor*. **R30** is not replaced
 - If replacing **U4**, remove **R43** & **R48**
Replace **R43** with a 221K 1/4W 1% resistor*. **R48** is not replaced
 - If replacing **U5**, remove **R51** and **R55**.
Replace **R55** with a 221K 1/4W 1% resistor*. **R51** is not replaced
 - If replacing **U7**, remove **R67** & **R68**
Replace **R67** with a 221K 1/4W 1% resistor*. **R68** is not replaced
 - If replacing **U8**, remove **R72** & **R73**
Replace **R73** with a 221K 1/4W 1% resistor*. **R72** is not replaced
- Install and solder the new VCA

* Radio Systems Part # 9584



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