

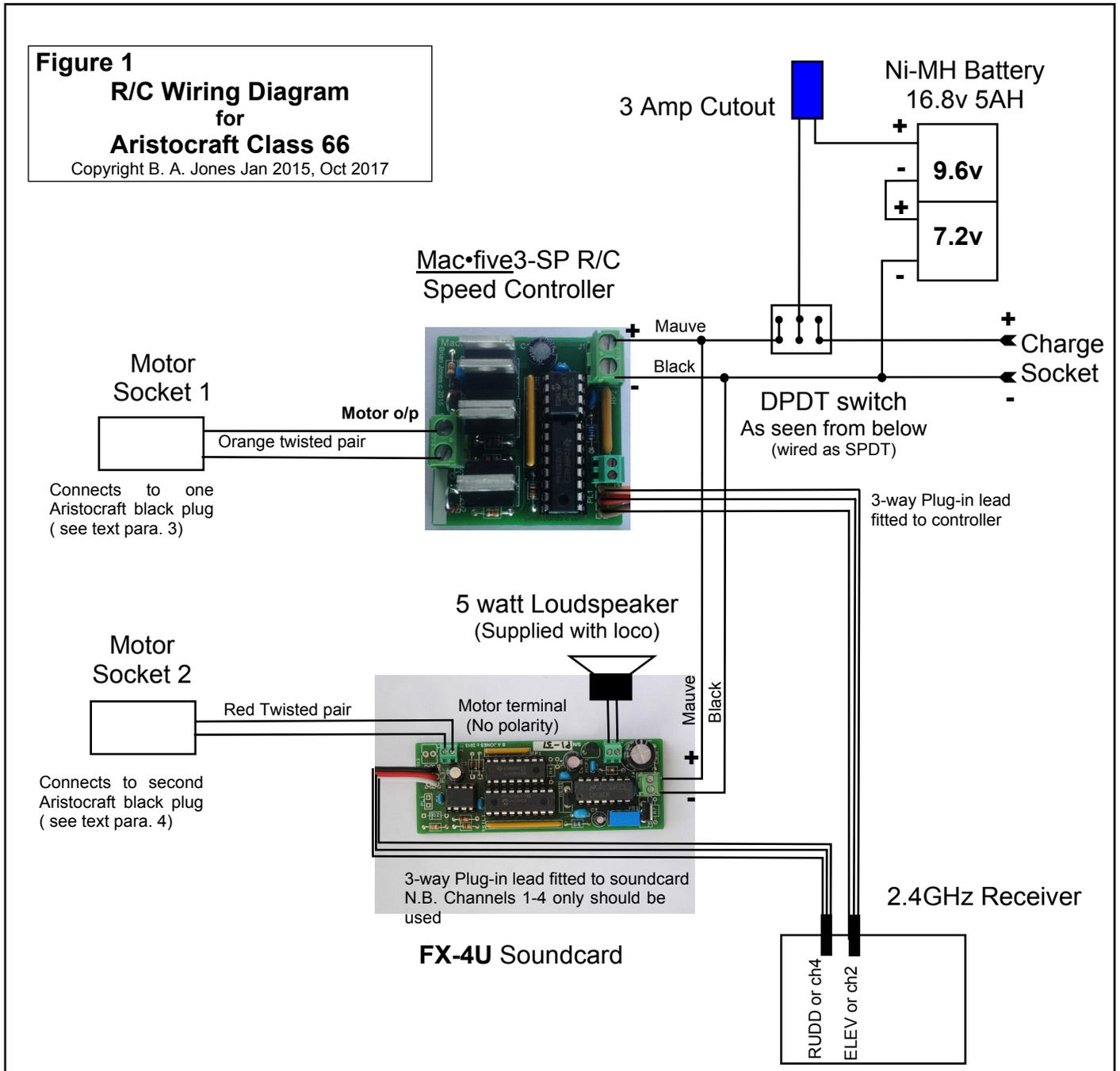
CLASS 66 CONVERSION NOTES - 5AH VERSION

The picture above shows the layout of the parts in my own Class 66 loco. A few notes follow which may be of help in converting your loco. If there is anything else you need to know please contact me.

- 1) Use a DPDT switch with the contacts wired in parallel as an SDPT switch, in the positive supply line to the controller and charging socket. This will double its current handling from 5 Amps to 10 Amps.
- 2) The two 5AH battery packs should be wired in series - join the red wire on one pack to the black on the other. The remaining red and black leads become the battery wires for the whole pack and should be joined to the mini-Tamiya lead set. **N.B. The battery must be charged every 3 months to keep the cells in good condition, even when not being used. Never leave it discharged!**
- 3) The orange twin lead with the small white connector, mates with one of the black latching connectors inside the loco. These two black connectors are wired in parallel directly to the bogies when the loco is switched into battery mode. The other ends of the orange leads are bared and tinned for connection to the motor output terminal of the Macfive controller.
- 4) The red twin lead with the small white connector mates with the other black latching connector at the other end of the loco. The other ends of the red leads are bared and tinned for connection to the measuring input connector of the FX4U sound card. See figure 1 on page 2. If you are not fitting a sound card blank off this black connector with insulating tape so that it doesn't short on any metal parts.
- 5) The FX4U sound card is located such that the volume control can be accessed through a cab door to change the volume setting.
- 6) The SUB-1 power connector between the two battery packs should be undone and re-fitted upside down to allow more room for the 8 cell battery pack. You may have to bend the components on this board slightly in order to do this. The components on this board are overload cutouts. They often trip too soon. If so, they can be bridged **AS LONG AS A CUTOUT IS FITTED** to the main battery power lead as shown in figure 1.

Figure 1
R/C Wiring Diagram
 for
Aristocraft Class 66

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7) Move the weight in the fuel tank to the other mounting hole to make more room for the switch and charging socket.

Note that if you have purchased a pre-wired harness, the switch, charging socket and overload cutout will already have been connected to the wiring.

When mounting the fixed components, the switch requires a 6.4mm hole, and the charging socket an 8mm hole. A small 1.6mm hole is also required for the tab of the switch anti-turn washer. Ensure that the charging socket is mounted such that the locking washer is in front of the panel right under the nut.

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