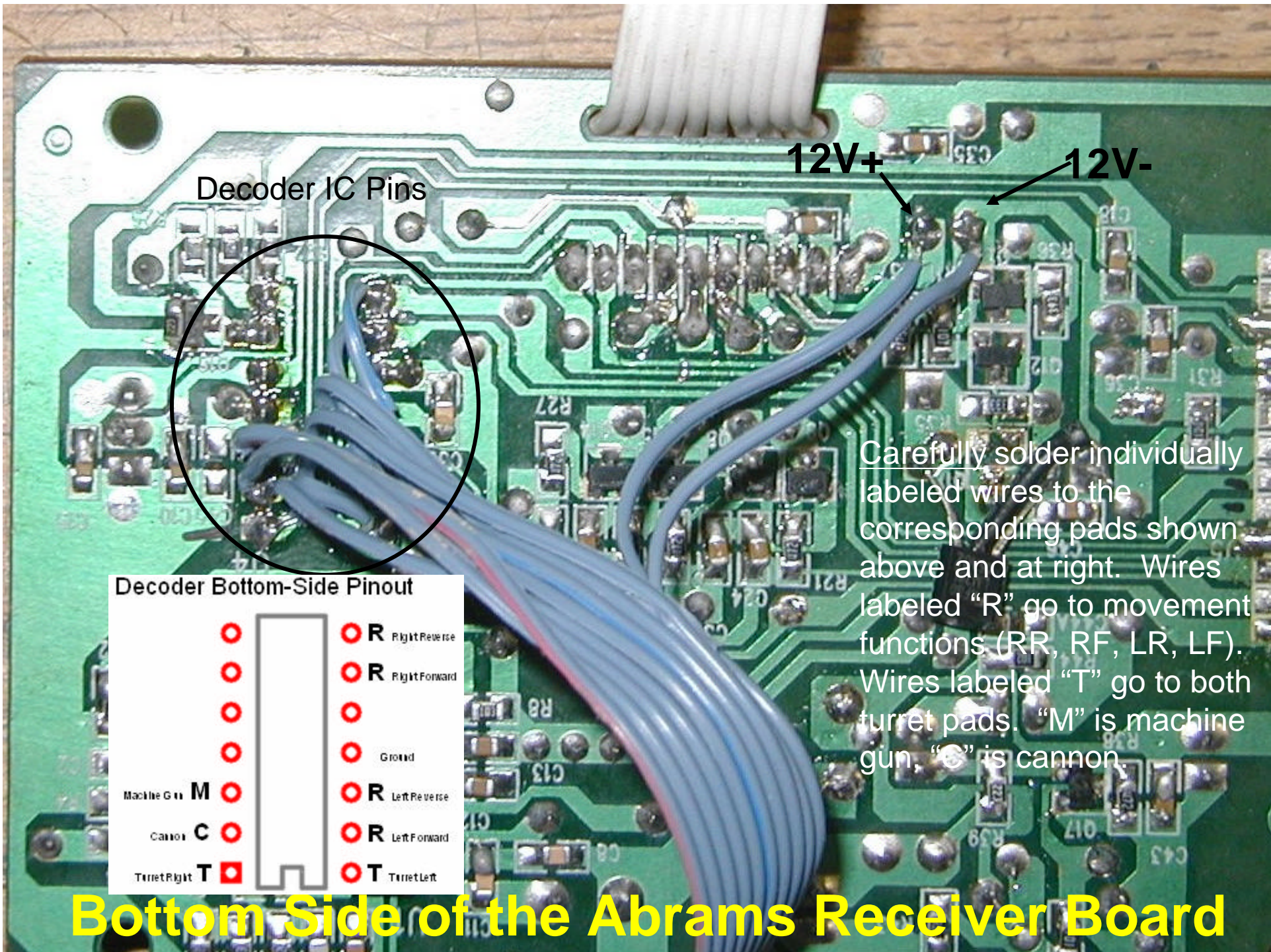


Installing the Turbine Sound Effects Module

- Remove the battery from the tank.
- Carefully disassemble the upper hull from the Abrams by removing the Phillips mounting screws from the bottom of the lower hull. Note: Four of the screws require a longer than normal Phillips screw driver.
- When removing the upper hull, carefully note the location and orientation of all the cables running from the upper hull (main power, turret drive, channel select, volume, and javelin launch motor) to the receiver and power boards mounted in the lower hull. These cables must be properly reconnected in order for the tank to operate properly once reassembled. Failure to reconnect the cables appropriately can result in permanent damage to the electronics.
- Remove the two screws securing the Abrams receiver board from the lower hull and carefully rotate the board bottom-side up.
- Carefully solder the pre-tinned and labeled ribbon cable wires to locations specified in the attached photograph. Ensure wires are connected as shown and that no wires are inadvertently shorted as damage to the tank's electronics would likely result.
- Solder the volume control pigtail to the volume control switch as shown in the attached photograph.
- Connect the speaker wires to the speaker. The speaker may be mounted as desired.
- Verify correct operation of the sound module before completely reassembling the tank.
- Reconnect all cables from the upper hull to the receiver and power boards.
- Set the upper hull back on the lower hull. Install the battery.
- Power the transmitter ON and power the tank ON.
- Press the machine gun button on the transmitter. The start-up routine should begin. Adjust the volume via the volume control.
- Although the tank may be operated prior to completion of the start-up routine, it is recommended the tank NOT be moved until the start-up routine is complete.
- Verify proper operation of the remaining sound effects (idle, running, MG, cannon).
- All sound modules are tested for proper operation prior to shipment. If any sound effects do not operate properly, switch the tank off and verify all connections to the receiver have been soldered properly and are not shorted.



Decoder IC Pins

12V+

12V-

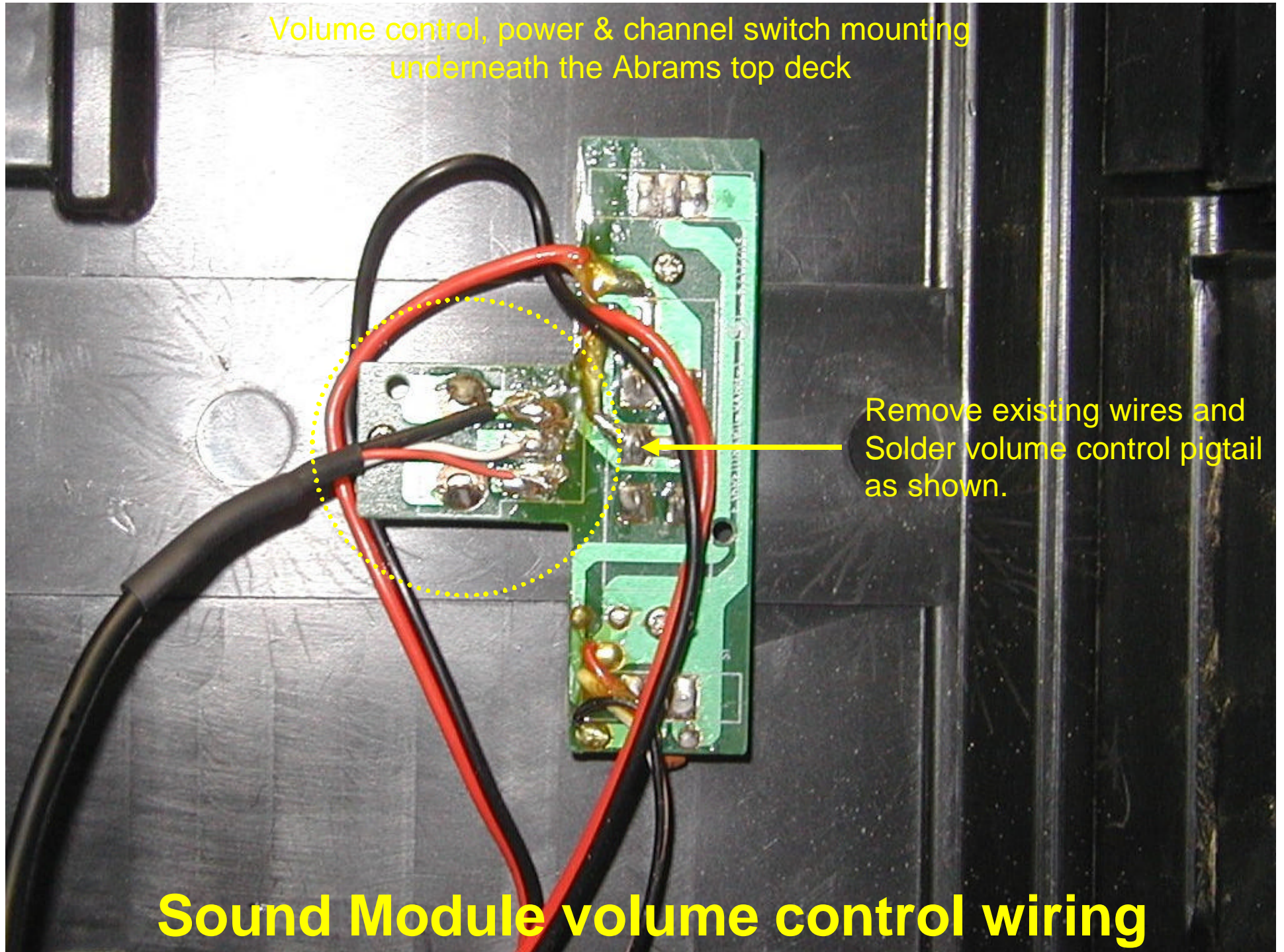
Carefully solder individually labeled wires to the corresponding pads shown above and at right. Wires labeled "R" go to movement functions (RR, RF, LR, LF). Wires labeled "T" go to both turret pads. "M" is machine gun, "C" is cannon.

Decoder Bottom-Side Pinout

	○	○ R Right Reverse
	○	○ R Right Forward
	○	○
	○	○ Ground
Machine Gun M	○	○ R Left Reverse
Cannon C	○	○ R Left Forward
Turret Right T	■	○ T Turret Left

Bottom Side of the Abrams Receiver Board

Volume control, power & channel switch mounting
underneath the Abrams top deck



Remove existing wires and
Solder volume control pigtail
as shown.

Sound Module volume control wiring

Decoder Bottom-Side Pinout

