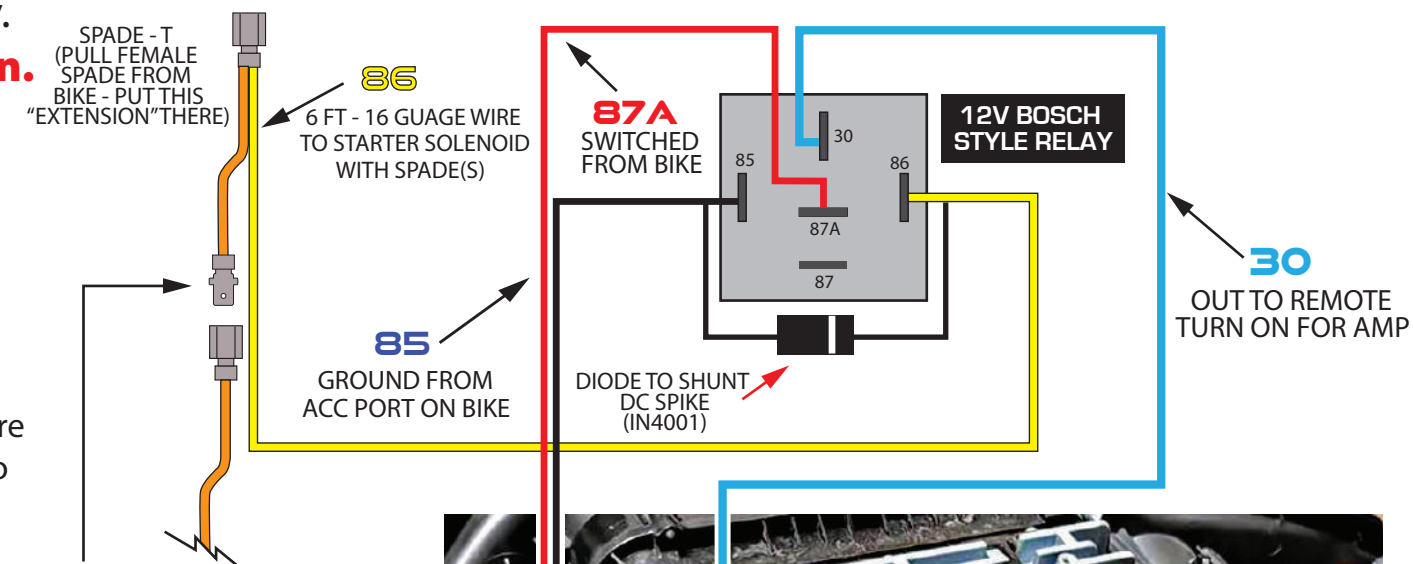# CICADA AUDIO

TECH SHEET

THANKS TO OUR FRIEND, ROB GOMEZ AT AMERICAN HARDBAG (AND JESSE!) FOR THIS FIX FOR A STRANGE ""POP/SQUEAL" ISSUE THAT SEEMS TO COME UP PERIODICALLY.
NOT ALWAYS, BUT ENOUGH TO BE A CONCERN IF YOU ARE EXPERIENCING THIS NOISE ISSUE THIS SEEMS TO BE THE ULTIMATE FIX.
WE ARE WORKING ON THE PERMANENT FIX NOW ON OUR DSP AMPLIFIERS.

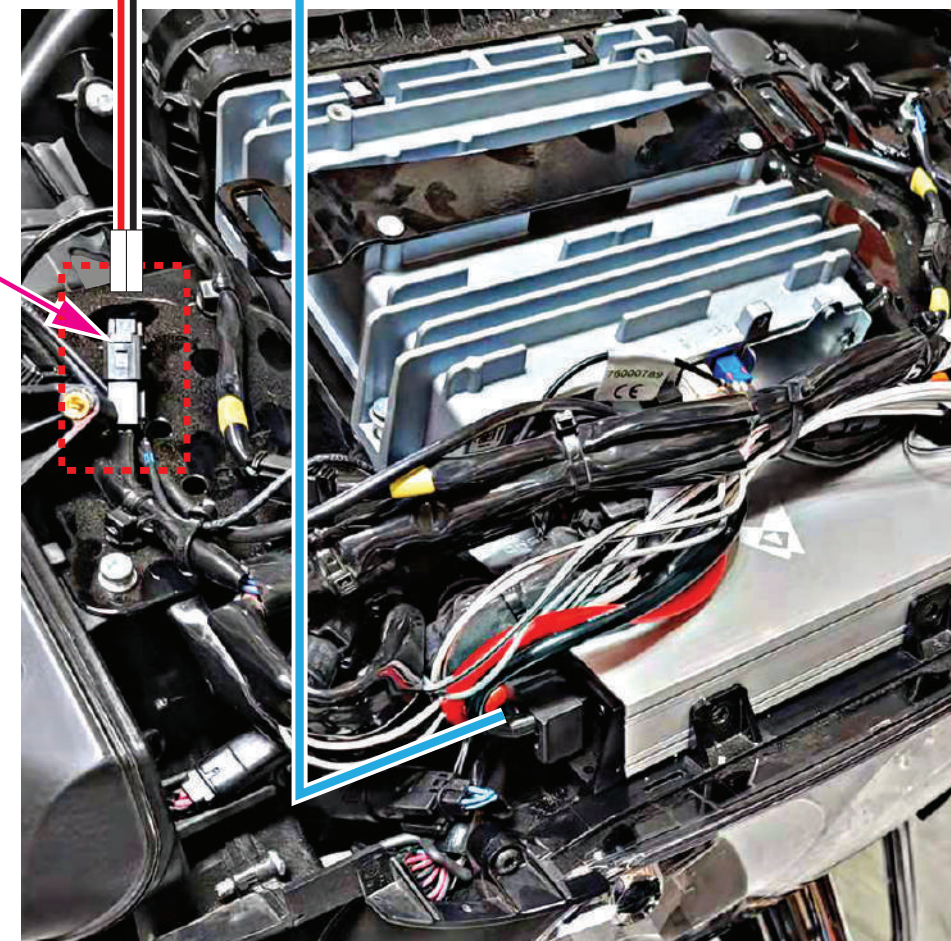This modification uses a standard Bosch-type SPDT relay.
Please note terminal 87 is not used in this application.

- Step 1 – Unplug female spade for starter solenoid from motorcycle. This wire is typically orange in color.

- Step 2 – Create an 6 ft extension for the starter wire by crimping a male spade on to one end of a new orange wire.

- Step 3 - On the other side of the starter wire extension, twist a second wire (yellow on diagram) and crimp a new female spade on to the two wire junction. This will plug into the starter solenoid.

- Step 4 – Plug the starter solenoid extension's male into the OEM starter solenoid female spade.

- Step 5 – Connect the second wire (yellow on diagram) to terminal 86 of the relay.

- Step 6 – Connect the power antenna +output from the motorcycle's accessory plug (red on diagram) to terminal 87a of the relay.

- Step 7 – Connect the ground side of the accessory plug (black on diagram) to terminal 85 of the relay.

- Step 8 – Wire a 1N4001 or equivalent diode across the relay coils (85 and 86) with the cathode/banded side facing terminal 86.

- Step 9 – Connect wire from the amplifier's remote turn on to terminal 30 of the relay.

If wired correctly, the relay will momentarily open the turn on circuit to the amplifier while the motorcycle is starting. The addition of the diode quenches any momentary spikes that could cause pops in the rapid turn on/off sequence.

SPADE - T
(PULL FEMALE SPADE FROM BIKE - PUT THIS "EXTENSION" THERE)

86
6 FT - 16 GUAGE WIRE TO STARTER SOLENOID WITH SPADE(S)

87A
SWITCHED FROM BIKE

12V BOSCH STYLE RELAY

85   30   86
87A
87

85
GROUND FROM ACC PORT ON BIKE

DIODE TO SHUNT DC SPIKE (IN4001)

30
OUT TO REMOTE TURN ON FOR AMP

BIKE SPADE THAT PLUGGED INTO STARTER SOLENOID (FEMALE SPADE) NOW PLUGS IN TO THE EXTENSION YOU MADE

HD OEM WIRING PLUG NOT CONNECTED TO ANYTHING (supposed to be the power antenna)

**SPECIAL NOTE: IF ANYTHING UNUSUAL HAPPENS...LIKE BIKE ENGAGING...THE RELAY IS WIRED WRONG!!!! PERIOD!!!!!!

(TEXT WRITTEN BY MY GOOD FRIEND , FOREVER - TODD RAMSEY THANKS BUDDY!!!! IT HELPS TO HAVE FRIENDS IN LOW PLACES..YA KNOW!!!!)