

BB-2 ECHO BOARD

WIRING DIAGRAM AND TECH NOTES

THIS ECHO BOARD IS DESIGNED TO RUN ON EITHER 13.8 VOLTS OR 8.55 VOLTS. IT WILL OPERATE BEST AT 9 VOLTS. SO CHOOSE THE APPROPRIATE POWER SOURCE. IT ALSO HAS 30 db GAIN AUDIO AMP ON BOARD. ADJUST THIS POT FOR MAXIMUM FORWARD SWING. NOTICE POP-OFF MODULE FOR INBOARD OR EXTERNALLY MOUNTED CONTROLS. THE EXTERNAL CONTROL POT IS DESIGNED TO FIT IN SMALLER SPACES PROVIDED BY THE MODERN RADIO. PLEASE NOTE THAT WHEN THE ECHO BOARD IS FIRST ACTIVATED, EFFECTS ARE ON FULL. TO REDUCE EFFECTS, TURN KNOBS CLOCKWISE.

PARTS LIST:

- ECHO BOARD
- ONBOARD CONTROL
- OUTBOARD CONTROL WITH LOCK NUT AND KNOBS

WIRING DIAGRAM OF ONBOARD CONTROLS:

FIRST START BY PLUGGING IN POP OFF MODULE CONTAINING ONBOARD CONTROLS.

RED	HOOKS UP TO POWER SOURCE 12 TO 9 VOLTS. THIS POWER MUST BE CONSTANT IN ORDER TO POWER AUDIO AMPLIFIER.
ORANGE	HOOK TO SAME POWER SOURCE, BUT PASS THIS WIRE THROUGH A SWITCH TO TURN ECHO EFFECTS OFF AND ON.
BLACK	THIS WIRE IS A GROUND WIRE AND HOOKING IT UP IS OPTIONAL IN MOST UNIDEN/COBRA RADIOS. IF NEEDED HOOK IT TO A CANISTER ON THE MAIN BOARD OF THE RADIO.
RED SHIELD	THIS LINE IS THE AUDIO OUT FROM ECHO BOARD. THE SHIELD WIRE SHOULD BE ATTACHED TO PIN 1 OF MICROPHONE JACK.
WHITE SHIELD	THE WHITE WIRE IS AUDIO IN TO THE ECHO BOARD. THE SHIELD WIRE SHOULD BE ATTACHED TO PIN 1 OF MICROPHONE JACK.

PASS THE ORANGE WIRE THROUGH A SWITCH ON THE FACEPLATE SO THE CUSTOMER CAN TURN ECHO EFFECTS OFF AND ON. PRE-TUNE THE ECHO TO MEET YOUR CUSTOMERS NEEDS. YOU MAY EITHER INSTALL THIS BOARD TO THE MICROPHONE JACK AS WITH OTHER BOARDS OR BREAK THE CENTER WIRE OF MICROPHONE GAIN POTENTIOMETER AND INSTALL IT THERE.

WIRING DIAGRAM OUTBOARD CONTROLS:

FIRST START BY PLUGGING IN THE OUTBOARD WHIP WITH CONTROL POT ON IT. ATTACHED TO THESE CONTROLS IS A RED WIRE. ATTACH IT TO EITHER 12 OR 9 VOLT SOURCE. RED WIRE FROM BOARD IS THEN SOLDERED TO THE RED WIRE THAT IS ATTACHED TO CONTROL POT. THIS WILL PROVIDE FULL TIME POWER TO THE AUDIO AMPLIFIER ON THE ECHO BOARD. WITHOUT WHICH, THIS BOARD WON'T WORK. ATTACH ORANGE WIRE TO THE UNUSED CONNECTION POINT. THIS WILL PROVIDE POWER TO THE ECHO SECTION OF THE ECHO BOARD. THEN INSTALL THE CONTROLS THROUGH THE FRONT OF THE RADIO AS WITH ALL OTHER ECHO BOARDS.

**THE CONTROL POT IS SMALL ENOUGH TO FIT ALMOST ANY RADIO,
EVEN WEATHER CHANNEL RADIOS**
WITH THESE CONTROLS, CLOCKWISE IS LESS EFFECTS.