INSTALLATION MANUAL
PRODUCT PART DESCRIPTION

1. INPUT:
   FL and RL signal input, come from (CD DAT etc) the connection between sound resource and Amplifier.
2. GAIN: Gain control knob
3. LPF: Variable low pass crossover, range 55Hz to 550Hz.
4. HPF: Variable low pass crossover, range 55Hz to 550KHz
5. X-OVER: HPF/FLAT/LPF FUNCTION SWITCH
6. BASS BOOST: RANGE 0dB / +12dB.
7. ILOT LAMP (PRT/POW):
The car amplifier power up, LED is Green Thermal/overload / Short-circuit protection. LED is red
8. SPEAKER: Amplifier connection terminals, load
9. REM:
   Terminal to be connected with Remote cable, which comes from the source and which controls the amplifier switching on. Applied voltage must be between 7 and 15VDC.
10. GND:
    Ground terminal. Connect to the car chassis; keep the length of the ground cable to a minimum.

SPECIFICATIONS

RMS Power@13.8VDC
- Power@4 ohms: 60W x 4
- Power@2 ohms: 90W x 4
- Bridged Power@4 ohms: 160W x 2
Min. Speaker Impedance: 2 Ohm
THD Distortion: 0.08%
IMD Distortion: 0.08%
Frequency Response: 5Hz-30KHz
Input Sensitivity: 0.2V + 6V
Input Impedance: 15K
Signal-to-Noise Ratio: 90 dB
Channel Separation: 50 dB
Crossover Network
- Low Pass Filter: 55Hz-550Hz
- Bass Boost: 0dB +12dB
- High Pass Filter: 55Hz-550Hz
Fuse Rating: 20A x 2
Size LxWxH: 306x135x46mm

SYSTEM WIRING
4 CHANNEL ST-Radio CONFIGURATION

Speaker Impedance 24 ohm

Connect to remote turn-on lead of source unit

Connect to +12V of battery with appropriate FUSE value

Connect to chassis ground of vehicle*
Before removing your amplifier, refer to the list below and follow the suggested procedures. Always test the speakers and their wires first.

**AMPLIFIER WILL NOT POWER UP**
- Check for good ground connection.
- Check that remote DC terminal has at least 10V DC.
- Check that there is battery power on the + terminal.
- Check all FUSES.
- Check that Protection LED is not lit. If it is lit, shut off amplifier briefly and then repower it.

**HIGH HISS OR ENGINE NOISE/ALTERNATOR WHINE IN SPEAKERS**
- Disconnect all RCA inputs to the amplifier. If hiss/noise disappears, plug in the component driving the amplifier and unplug its inputs. If hiss/noise disappears, go on until the faulty noisy component is found.
- It is best to set the amplifier input level as insensitive as possible. Try to drive as high a single level from the head unit as possible.

**PROTECTION LED COMES ON WHEN THE AMPLIFIER IS POWERED UP.**
- Check for shorts on speakers leads.
- Check that volume control on the head unit is turned down low.
- Remove speaker leads, and reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty.
- The amplifier will shut down automatically when the units temperature goes up to 80°C.
- This will protect the units from damage.

**AMPLIFIER'S GETS VERY HOT**
- Check that the minimum speaker impedance for that model is correct.
- Check for speakers shorts.
- Check that there is good airflow around the amplifier. In some applications, an external cooling fan may be required.

**DISTORTED SOUND**
- Check that the level control is set to match the signal level of the head unit.
- Check that all crossover frequencies have been properly set.
- Check for shorts on the speaker leads.

**SQUEAL NOISE FROM SPEAKERS.**
- This is always caused by a poorly grounded RCA patch cord.

**WARNING!**
1. Over high volume will damage your speakers.
2. Be cautious when you use the amplifier near gasoline tank and electric wires.
3. Protect the connecting wires and parts to avoid any damage or short circuit.
4. The power must be from the anode if the battery via FUSE.
5. The sound system must be in turning-off situation when you check the amplifier.
6. Be sure that you see the same type of FUSE when you need to replace it.

*We reserve the right to make needed change or improvement to the product, without informing customers about this in advance.*