

RECOMMENDED ACCESSORIES



GROUND LOOP ISOLATOR
Isolates ground loops caused by multiple accessory grounding points, eliminating noise



3.5mm Mini-Stereo Male to Two RCA Male Speaker Adaptor



Audio splitter - Male RCA to F RCA



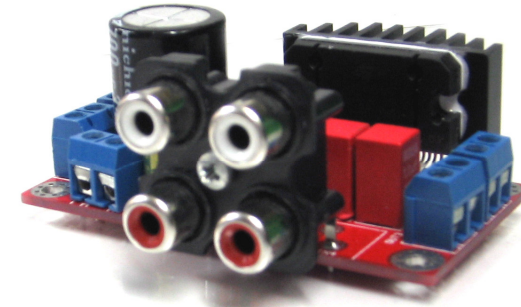
Color coded 8 Contacts, 22 Ga. speakers wire harness with Molex quick disconnect panel mount connector

PACKAGE CONTENTS

QTY	ITEM
1	4x50 W Power Amplifier
1	12V - 20A relay (Includes mounting tape)
4	Self adhesive 6mm PCB mounts
1	Sheet metal screw to secure the kit to a back panel
2	6" Power cables

QUAD 7850

ASSEMBLY GUIDE



4 x 50 W MOSFET QUAD BRIDGE POWER DIY AMPLIFIER

DESCRIPTION

The Quad-7850 is a breakthrough MOSFET technology class AB audio power amplifier in Flexiwatt 25 package designed for high power car radio. The fully complementary P-Channel/NChannel output structure allows a rail to rail output voltage swing which, combined with high output current and minimized saturation losses sets new power references in the car-radio field, with unparalleled distortion performances. The TDA7850 integrates a DC offset detector.

This easy to use DIY amplifier kit provides a solid solution to the carputing audio needs. Powerful enough to power 4x50w or 2x100 W speakers this unit allows you to amplify your carputer audio to the vehicle's OEM speakers without the need of expensive external amplifiers and running long audio and power lines throughout your vehicle.

REQUIRED TOOLS:

1. Thin Phillips screw driver
2. Small cutting pliers
3. Voltage tester
4. Safety Glasses



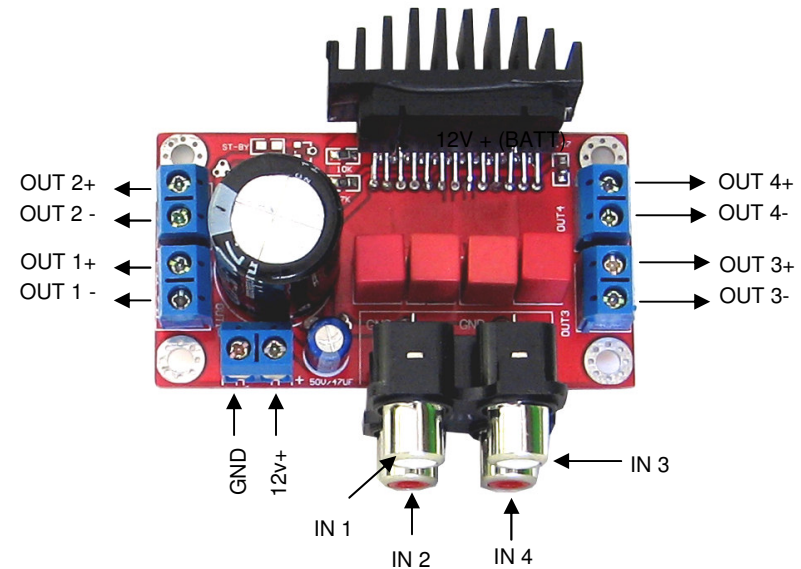
Please use safety equipment when handling electronic components. Bybyte Infotainment Solutions does not assume any responsibility for damage to your electronic device due to improper installation. Please use this installation guide at your own risk.

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AMPLIFIER CONNECTION DIAGRAM

FEATURES

- High output power capability:
 - 4 x 50 W/4 Ω max.
 - 4 x 30 W/4 Ω @ 14.4 V, 1 kHz, 10 %
 - 4 x 80 W/2 Ω max.
 - 4 x 55 W/2 Ω @ 14.4V, 1 kHz, 10 %
- MOSFET output power stage
- Excellent 2 Ω driving capability
- Power input: 12 DC V
- Hi-Fi class distortion
- Low output noise
- ST-BY function
- Mute function
- Auto mute at min. supply voltage detection
- Low external component count:
 - Internally fixed gain (26 dB)
 - No external compensation
 - No bootstrap capacitors
- On board 0.35 A high side driver
- Dimensions: 70mm (W) x 65mm(D) x 30mm (H)
- Inputs: Quad RCA connector & power terminal block
- Outputs: 4x2 terminal blocks
- Heat dissipation: Anodized aluminum heat sink



PROTECTIONS

- Output short circuit to gnd, to Vs, across the load
- Very inductive loads
- Overrating chip temperature with soft thermal limiter
- Output DC offset detection
- Load dump voltage
- Fortuitous open
- Reversed battery

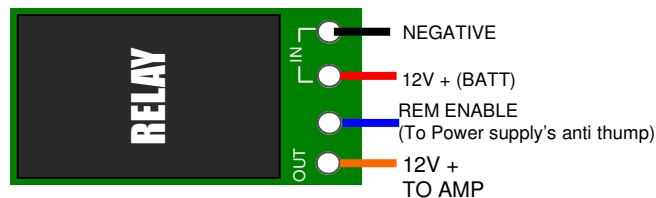
POWER RELAY

Although the amplifier has pop noise suppression, the 20A relay can be used to power up the amplifier with the aid of an automotive power supply with "Anti-thump" protection.

You can also opt by powering the amplifier directly to a regulated 12V source.



RELAY CONNECTION DIAGRAM



COMBINED CONNECTION DIAGRAM

