



12 Volt Li-Ion  
20 Amp-Hr



There are cables in 308, 100 and 201



To speaker transformers

NC < 1 <

70 VOLTS < 2 <

From AUDIO OUT  
COMMON < 3 <

FUSE

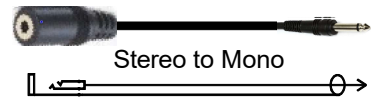
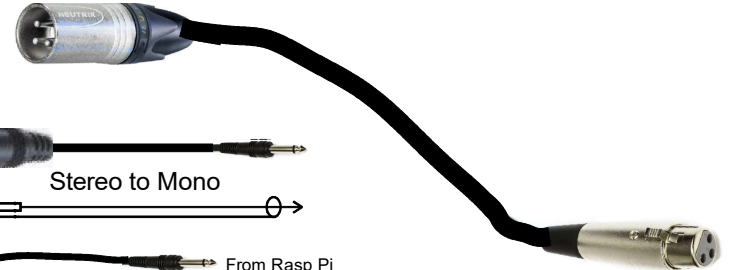
Bridge Rectifier



To 12 Volt Input

5 Volts out

Extension Cable



Stereo to Mono

To AUX In on PA-105

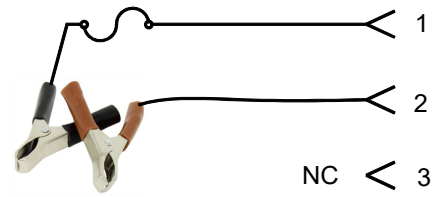
From Rasp Pi



7/24/18  
Added 12v to 5v converter

3/9/19  
Added audio transformer.  
This is needed to isolate the  
Pi when the switching regulator is used

5/15/18  
Added XLR cable to car 100

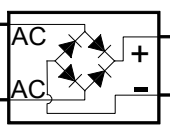


NC < 3 < NC

NC < 4 < NC

NC < 5 < NC

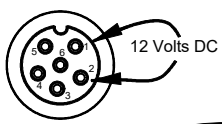
NC < 6 < NC



Polarity DOES NOT matter  
The BRIDGE RECTIFIER takes care of this.



12 Volts DC



12 Volts DC

FUSE



# Train PA Amplifier Modifications

PA-105 Modified Rev 1.1 Drawn by: Ted Dunn  
Approved by: *[Signature]*