



OWNER'S MANUAL

RS-SWP.11TH

HIGH PERFORMANCE SUBWOOFER

2 Ω

Harmony
You are special



Since 1985

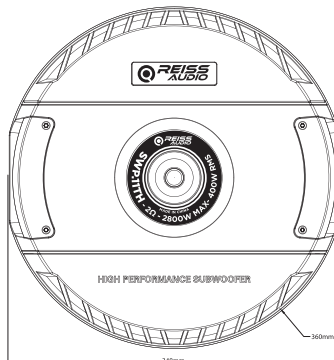
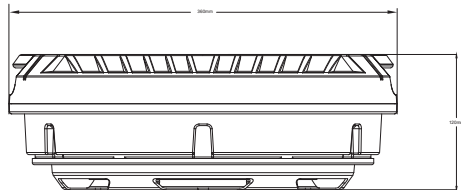
TURKISH ENGINEERING

SPECIFICATIONS

MODEL:	RS-SWP.11TH
Power	400W RMS / 2800W MAX
THD	<1.0%
Signal-to-noise ratio	>90dB
Frequency response	20Hz - 150Hz
Input sensitivity, high level	0.4V -11V
Input sensitivity, low level	0.2V - 4V
Low Pass Filter	50Hz - 150Hz
Bass Boost	0 to + 12dB
Subsonic Filter	20Hz
Fuse rating	30A
Subwoofer	12 inch (actual 11.3"), 2 ohm
Dimensions(L x W x H) inches/mm	14.2"(360.0) x 14.2"(360.0)x 4.7"(120.0)

All specifications subject to change without notice.

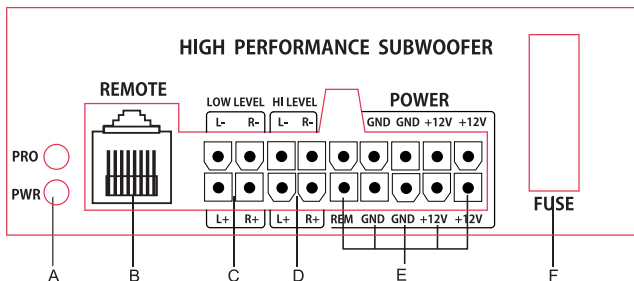
PRODUCT DIMENSIONS



TROUBLE SHOOTING

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram on the previous pages. If problems persist, read the following troubleshooting tips which may help eliminate the problems.

SYMPTOM	POSSIBLE REMEDY
Amplifier will not power up.	Check to make sure you have a good ground connection. Check that there is at least 12v on the battery (+) terminal Check that the Remote Input (Turn-On) has at least 10VDC. Check that the green power LED is lit Check all fuse, replace if necessary. Make sure that the Protection LED is not illuminated. If it is lit, shut off the amplifier briefly, and then Power Cycle (reset).
Protection LED comes on when amplifier is powered up	Turn down the volume control on the head unit to prevent overdriving the input speaker leads. Try Power cycling (reset) the amplifier. If the Protection LED still comes on, then the amplifier is faulty and needs servicing
No output.	Check that all fuses are OK. Check that the power light LED on Check that unit is properly grounded. Check that the Remote Input (Turn-On) has at least 10VDC. Check that the input main harness is plugged in properly.
Low output.	Readjust the Input Gain Control. Check the Crossover Control settings, possibly try a higher frequency.
High hiss in the sound.	Disconnect all RCA inputs to the power sub's control panel. If the hiss disappears, then plug in the component driving the amplifier and unplug its inputs. If the hiss disappears at this point, go on until the faulty/noisy component is found. Reset Input Gain. It is best to set the subwoofers input level control as low as possible. The best subjective signal-to-noise ratio is achieved in this manner. Try to set the head unit as high as possible (without distortion) and the subwoofer input level as low as possible.
Squealing noise is present.	Check for improperly grounded RCA interconnects. Or possible "blown" signal ground from head unit. (Some head units are notorious for this!)
Distorted sound.	Check that the Input Gain control is set to match the signal level of the head unit. Always try to set the Input Gain on the subwoofer as low possible. Input gain is NOT power output!! Check that all crossover frequencies are properly set.
Amplifier gets very hot.	Readjust the Input Gain Control. Make sure to NOT use CCA power wire as it will cause this kind of issue (and voids warranty).
Engine noise (static type)	This is usually caused by poor quality RCA cables, which can pick up radiated noise. Use only the best quality cables, and route them away from power cables.
Engine noise (alternator whine)	Check that the RCA grounds are not shorted to the vehicle chassis Check that the head unit is properly grounded.

PANEL CONNECTIONS AND FEATURES**A. POWER STATUS LED**

There is a GREEN "power" LED that glows green when power is on and no problems are present. If the protection circuit (PRO) comes on, it will illuminate the other LED RED.

Note: Please connect the remote terminal to the remote output of head unit as in Fig.4. When you hear the unit turn ON/OFF there should be a very slight POP noise from the subwoofer.

B. REMOTE LEVEL CONTROL PORT

You MUST use the Remote Control as this is used to set up level (See G on its functions)

AUTO POWER CIRCUIT

The AUTO POWER circuit is for high level (speaker-level) connections. When the speaker level connections are used AND the remote turn on wire is NOT used the subwoofer will AUTO POWER ON when signal is detected. If the amplifier detected no signal input, the amplifier will auto turn off.

C. LOW LEVEL (RCA) INPUTS

Low level inputs are the recommended way to introduce the audio signal to the subwoofer. If RCA outputs are present on your head unit or other signal source (such as a sound processor - see Figure 1, PG4) use those.

D. HIGH LEVEL (speaker) INPUTS

If your head unit does not have RCA outputs you can use the speaker outputs for the audio source for the subwoofer. Use the supplied cable and wire harness and connect the outputs properly as shown in the connection diagram in this manual (Figure 1, PG4)

NOTE: NEVER CONNECT BOTH RCA AND SPEAKER INPUTS SIMULTANEOUSLY!!

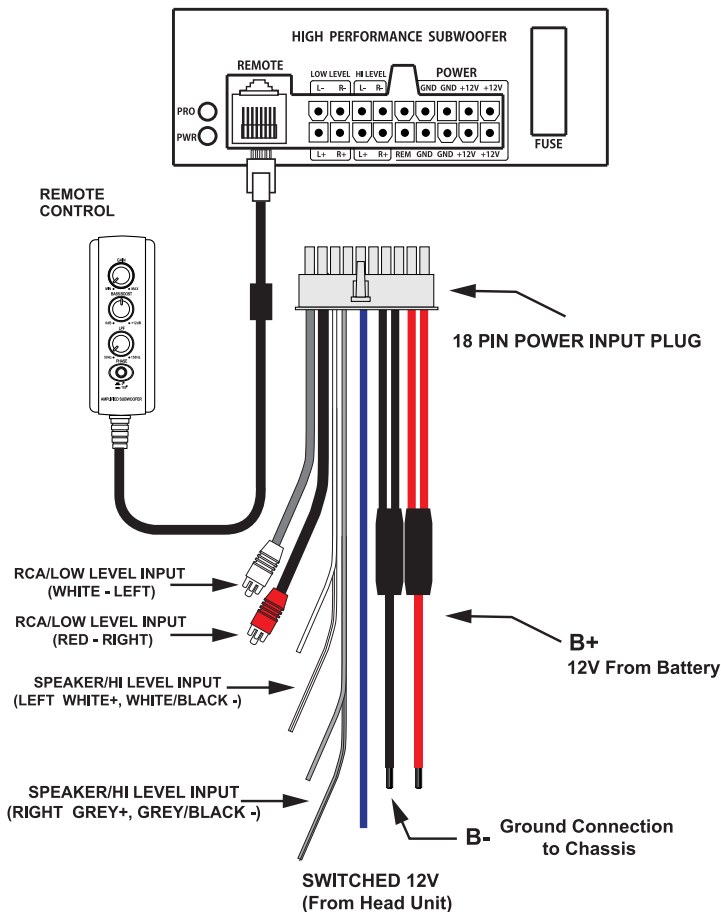
E. POWER INPUT TERMINAL

Use 8 guage COPPER wire!! NOT CCA type

F. FUSE

Do not use a fuse with a different value. NEVER replace the fuse with a wire or coin. The fuse is there to protect the vehicle NOT the amplifier/subwoofer.

PANEL CONNECTIONS AND FEATURES



REMOTE CONTROL SETTINGS AND FUNCTIONS

G. INPUT GAIN CONTROL

After you have installed your system, turn this GAIN control to minimum (counter-clockwise).

Turn the head unit on and adjust the head unit volume to a comfortable listening level.

Slowly turn up the subwoofer input gain control until you hear a small amount of distortion. Then reduce the level until the distortion is completely gone. Leave the control at this setting.

H. BASS BOOST

The BASS BOOST feature will increase the sound level in the bass frequencies (below 45Hz).

I. LOW PASS FILTER (LPF)

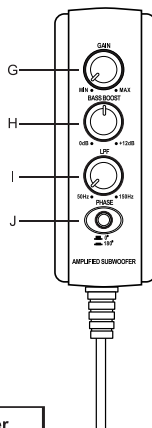
This control permits you to define the frequency range you want the subwoofer amplifier to receive. The subwoofer will reproduce all sound BELOW the frequency you set.

Note: The low pass filter frequency can be higher or lower than the marked Frequency by as much as +/- 20% tolerance

J. PHASE SWITCH

Use this switch to help compensate for time alignment problems in the system. Such problems usually result from having the subwoofer at a different distance from the listener than the other speakers in the system.

REMOTE CONTROL



CENTER CONSOLE - CAR INTERIOR

