

Amplifier Gain Adjustments

Technical Support 866-931-8021

Items needed:

*High quality AC Voltmeter
*CD/MP3 with a 50 Hz and 1 kHz sine-wave test tone recorded at 0dB reference level. When testing use 50Hz for subwoofer amps and 1 kHz for full range amp.
Do not use -10db, etc tracks, use only 0dB.

Step 1

Disconnect any speaker(s) from the amplifier(s) in the system. Start the vehicle and turn the audio system on.

Step 2

Turn the input sensitivity control on the amp all the way down (counterclockwise).

Step 3

Set flat or turn off all processing on the head unit and the amp.(bass boost, treble, loudness, EQ, etc).

Step 4

Set the head unit volume to 3/4 volume. This is important. The 3/4 volume setting is where the amplifier will begin to clip or produce excess distortion after properly setup.

Step 5

Find the amp model and impedance load on the above chart to determine the target voltage.

Step 6

Double check that the speakers are disconnected and the headunit is at 3/4 volume.
Play a track with the appropriate sine wave (50 Hz = subs or 1 kHz for full range)

Step 7

Connect your multimeter (set to AC volts) to the speaker outputs of the amp.

Step 8

Increase the sensitivity control until the target voltage is reached.(from Step 5)
This has set up the amp to begin to clip at 3/4 volume.

Step 9

Once all adjustments have been made, reconnect the speakers and listen to the system.
Small adjustments of the levels between the sub amp and full range may still be needed.
Adjust the sensitivity DOWN on the amps if needed. Do not increase settings from where it was in Step 8.

ELITE

| ELITE AMPLIFIER TARGET VOLTAGE | | | | | | | | |
|--------------------------------|---------|---------|---------|-------|---------|-------|-------|--|
| Ω | ELITE.1 | ELITE.2 | ELITE.4 | | ELITE.5 | | | |
| 4 | 73.2 | 35 | 26.5F | 26.5R | 21.8F | 21.8R | 39SUB | |
| 2 | 70 | 32 | 24F | 24R | 19F | 19R | 39SUB | |
| 1 | 64 | 22.5 | 17F | 17R | | | 34SUB | |

| ELITE AMPLIFIER TARGET WATTAGE | | | | | | | | |
|--------------------------------|---------|---------|---------|------|---------|------|---------|--|
| Ω | ELITE.1 | ELITE.2 | ELITE.4 | | ELITE.5 | | | |
| 4 | 1340 | 306 | 176F | 176R | 119F | 119R | 380SUB | |
| 2 | 2450 | 512 | 288F | 288R | 181R | 181R | 761SUB | |
| 1 | 4096 | 506 | 289F | 289R | | | 1156SUB | |

TI 2

| TI 2 AMPLIFIER TARGET VOLTAGE | | | | | | | | |
|-------------------------------|----------|-----------|-----------|-------|-----------|-------|-------|--|
| Ω | Ti2800.1 | Ti21300.1 | Ti21000.4 | | Ti21600.5 | | | |
| 4 | 38 | 49 | 22.4F | 22.4R | 22.4F | 22.4R | 50SUB | |
| 2 | 35 | 45.2 | 20F | 20R | 20F | 20R | 41SUB | |
| 1 | 30.9 | 36.7 | | | | | | |

| TI 2 AMPLIFIER TARGET WATTAGE | | | | | | | | |
|-------------------------------|----------|-----------|-----------|------|-----------|------|--------|--|
| Ω | Ti2800.1 | Ti21300.1 | Ti21000.4 | | Ti21600.5 | | | |
| 4 | 400 | 600 | 156F | 156R | 125F | 125R | 625SUB | |
| 2 | 800 | 1022 | 265F | 265R | 200F | 200R | 841SUB | |
| 1 | 1156 | 1347 | | | | | | |

SX

| SX AMPLIFIER TARGET VOLTAGE | | | | | | | | |
|-----------------------------|---------|---------|----------|---------|-------|----------|-------|---------|
| Ω | SX400.1 | SX600.1 | SX1200.1 | SX800.4 | | SX1200.5 | | |
| 4 | 32.3 | 31.7 | 44.5 | 22.4F | 22.4R | 22.4F | 22.4R | 32.3SUB |
| 2 | 29.1 | 29 | 41 | 20F | 20R | 20F | 20R | 29.1SUB |
| 1 | | 25.1 | 35.2 | | | | | |

| SX AMPLIFIER TARGET WATTAGE | | | | | | | | |
|-----------------------------|---------|----------|----------|------|------|--------|--|--|
| Ω | SX400.1 | SX1200.1 | SX1200.5 | | | | | |
| 4 | 261 | 495 | 125R | 125F | 125R | 261SUB | | |
| 2 | 423 | 841 | 200F | 200R | 200R | 424SUB | | |
| 1 | | 1239 | | | | | | |

RX

| RX AMPLIFIER TARGET VOLTAGE | | | | | | | | |
|-----------------------------|---------|---------|----------|---------|-------|---------|-------|---------|
| Ω | RX250.1 | RX500.1 | RX1100.1 | RX400.4 | | RX600.5 | | |
| 4 | 24.8 | 35 | 44 | 17.6F | 17.6R | 15.8F | 15.8R | 28.3SUB |
| 2 | 22.5 | 32 | 40 | 15F | 15R | 13F | 13R | 24.5SUB |
| 1 | | | 34 | | | | | |

| RX AMPLIFIER TARGET WATTAGE | | | | | | | | |
|-----------------------------|---------|---------|----------|---------|------|---------|-----|--------|
| Ω | RX250.1 | RX500.1 | RX1100.1 | RX400.4 | | RX600.5 | | |
| 4 | 154 | 306 | 484 | 77F | 77R | 62F | 62R | 200SUB |
| 2 | 253 | 512 | 800 | 113R | 113R | 84F | 85R | 300SUB |
| 1 | | | 1156 | | | | | |