**GC-16R Technical Information**

- **Input Impedance**: ~1MΩ
- **Bass Control**: 120Hz +/- 15dB
- **Mid Control**: 800Hz +/- 13dB
- **Treble Control**: 4kHz +/- 18dB
- **Shift Control (Overdrive)**: 1.3kHz-4.5kHz spectrum shifter
- **Output Power Rating**: 16 Watt RMS into 8Ω
- **Ext. Speaker**: Min. 4Ω load, 16 Watts
- **Speaker**: 8Ω, 8" (22cm) / 30 Watts max.
- **Max. Power Consumption**: 25 Watts

**CLEANING THE GC-16R:**
Wipe it clean with a lint free cloth. Never spray cleaning agents onto the cabinet. Avoid abrasive cleansers which would damage the finish.

**CAUTION:**
1. Before using the GC-16R read this Owners’ Manual thoroughly.
2. Do not open the unit! No user serviceable parts inside.
3. Refer servicing to qualified service personnel.
4. This amplifier is capable of producing high sound pressure levels. Continued exposure to high sound pressure levels can cause permanent hearing impairment or loss. Ear protection is recommended if this amplifier is operated at high volume.
5. Do not use in dusty, wet or extremely hot environments.
6. Contact qualified service personnel immediately if:
   - * The housing is damaged and the unit does not work properly
   - * Small items or liquids of any kind penetrate the unit
   - * in the event of any other problem

Specifications and information in this manual are subject to change without notice!
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Designed in Germany - Made in Korea
1996-08-15 - Author: Kai Tachibana
NOBELS GC-16R AMPLIFIER

1. HI-INPUT
   Connect your guitar either to the HI or LO input. Use the HI input for passive guitars to achieve best gain.

2. LO-INPUT
   The LO input is best for active guitars (built-in preamp).

3. VOLUME (Clean)
   Select the desired volume for your CLEAN sound.

4. SELECT (Switch)
   Switch between CLEAN and OVERDRIVE sound. When the SELECT switch is pressed, the overdrive channel is engaged.

5. DRIVE CONTROL
   This high gain channel gives you sounds from a slight overdrive to a powerful distortion.

6. SHIFT (Spectrum Shifter)
   The SHIFT control is a special designed electronic circuit to select different colours of overdrive.

7. VOLUME (Overdrive)
   This control sets the output level for the overdrive sound.

   MASTER EQ:
   Tone controls Bass, Mid and Treble work for both channels!

8. BASS
   This control allows a total range of 30dB of boost or cut at a frequency of 120Hz. Due to the high amount of low frequencies, you may decrease it at high volumes.

9. MID
   Set this control to your desired amount of MID frequencies. In center position it is "flat" (No boost or cut)

10. TREBLE
    Adjust the high frequencies with this control.

11. REVERB
    This control adjusts the output level of the reverbation unit.

12. POWER LED
    This LED indicator lights up when the GC-16R amplifier is switched ON.

13. PHONES
    Insert the plug of your headphones. The built-in speaker will be switched off.

14. EXT. SPEAKER (On backside)
    For external speakers (4~8Ω). Switches the internal speaker off!

15. POWER (On backside)
    This switch is used to turn the GC-16R amplifier ON.

Have fun playing NOBELS Your Nº1 Design Team!

Try some sound examples:

-1 Mellow
  (small room)

-2 Ultra
  (big room)

-3 Crunch
  (no room)

-4 Hardrock
  (small room)

-5 Metal
  (solo)