

Consumer Response Group

6500 W. Cortland Street * Chicago, IL 60707 * Phone: 773-889-8870 * FAX: 773-622-2269

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TECHNICAL SERVICE BULLETIN 10041

MODEL(S): 200 GTL DX

DESCRIPTION: How to add talkback.

ACTION: The following instructions provide two options: adjustable-volume talkback and

fixed-volume talkback. Adjustable-volume talkback is more complicated to

install but allows easily changing the talkback volume.

See page 2 for fixed-volume talkback.

See page 5 for adjustable-volume talkback.

ADJUSTMENTS: None.

NOTES: * Talkback will work only when echo is turned on.

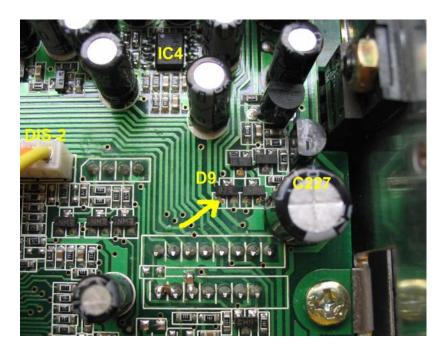
* Talkback will be available through the built-in speaker or through an

extension speaker.

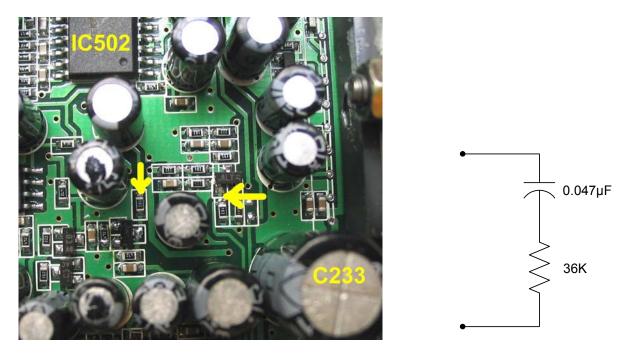
Fixed-Volume Talkback

Parts Required

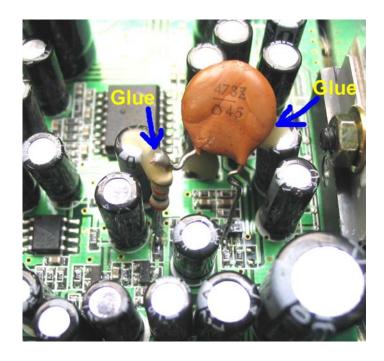
- (1) 0.047µF ceramic disk capacitor
- (1) $36K\Omega$ 1/4 watt resistor



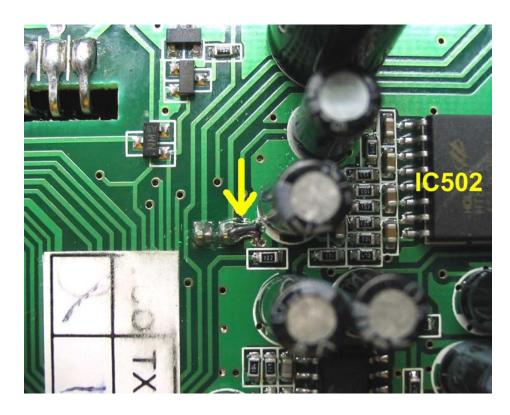
Step 1: Disconnect the indicated lead of D9. Do not cut the trace, you must carefully unsolder the lead and disconnect it.



Step 2: Connect the capacitor-resistor assembly to the indicated points.



Step 3: Use glue to secure the parts, otherwise they will vibrate and eventually break the solder joints.



Step 4: Scratch the ground plane next to the speaker connector to expose the copper foil. Solder from the speaker connector to ground as shown.

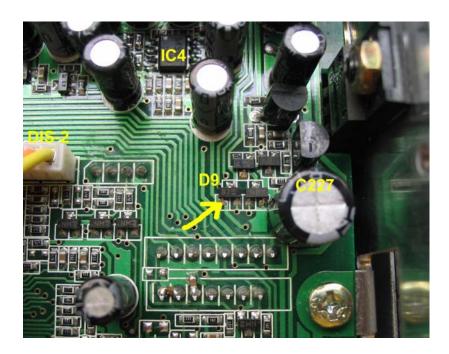
This completes the modification.

NOTE: The value of the resistor can be changed to adjust the talkback volume. A smaller resistor will provide more volume.

Adjustable-volume talkback

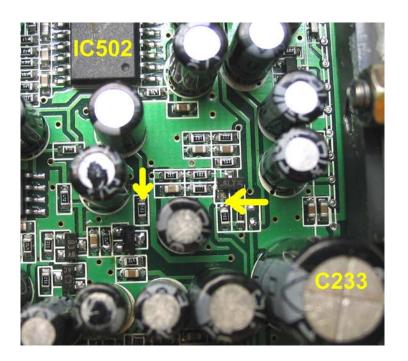
Parts Required

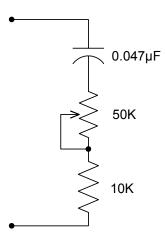
- $\overline{(1) 0.047 \mu F}$ ceramic disk capacitor
- (1) $10K\Omega$ 1/4 watt resistor
- (1) $50K\Omega$ panel-mount potentiometer



Step 1: Disconnect the indicated lead of D9. Do not cut the trace, you must carefully unsolder the lead and disconnect it.

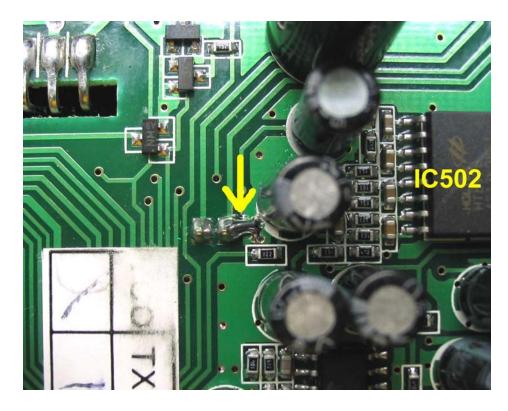
Step 2: Pick a mounting location for the potentiometer. Try to pick a location so that the wires can be kept short. Drill a hole and mount the potentiometer.





Step 3: Connect the capacitor-potentiometer-resistor assembly to the indicated points.

Step 4: Use glue to secure the parts and wiring, otherwise they will vibrate and eventually break the solder joints.



Step 5: Scratch the ground plane next to the speaker connector to expose the copper foil. Solder from the speaker connector to ground as shown.

This completes the modification.