

Atari Technical Bulletin
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Product(s) Affected:	MEGA STE, (STE)
Model:	All models
Type of ATB:	As Needed
ECO #:	N/A

Reason for ATB:

Audio distortion caused by shifter I.C. not installed correctly.

Notes:

<u>Description</u>	<u>Part number</u>	<u>Location</u>
Shifter Revision B	C300588-001	U502
Shifter Revision D	C301712-001	U502
74LS02 IC	C101611-002	U699

Symptoms of Problem:

Audio distortion during DMA sound.

Tests to Determine if Problem Exists:

Check stereo sound port with oscilloscope using diagnostic cartridge to see if waveform is distorted. (SEE AUDIO TEST IN FIELD SERVICE MANUAL)

Solution:

The revision B shifter (C300588-001) requires a 74LS02 at location U699. If the revision B is replaced with the revision D shifter (C301712-001), then U699 must be disabled. (See rework instructions)

<u>Shifter version</u>	<u>Solution</u>
C300588-001 Rev B	74LS02 enabled
C301712-001 Rev D	74LS02 disabled

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Rework required to disable 74LS02 on MEGA STE (U699)

Cut pins 1 and 13 of the 74LS02 at U699 (disconnect output)

Add a jumper from pin 2 of the 74LS02 at U699 to pin 1 of U699 on the PCB (do not connect the jumper to the cut pin on the 74LS02)

Add a jumper from pin 12 of the 74LS02 at U699 to pin 13 of U699 on the PCB (do not connect the jumper to the cut pin on the 74LS02)