

**Lieberman Music Company**  
 LOCAL - 887-5300  
 MN. WATS 800-352-2802  
 OUT-STATE 800-328-2960

**PIONEER/GEMINI  
 3-WAY SPEAKERS**  
 Reg. 189<sup>00</sup> Pair  
 NOW **159<sup>00</sup>** Pair

**COLOR T.V.  
 DEGAUSSING COIL**  
 Reg. 49<sup>95</sup>  
 While they last  
**39<sup>95</sup>**

**SPECO FD-90  
 DIGITAL VOM METER**  
 Reg. 79<sup>95</sup>  
 Sale **68<sup>95</sup>**

**ARACHNID  
 DART HOLDERS**  
 700 Lots of 10  
 750 each

**SPECIALS OF THE MONTH**  
**WHILE THEY LAST!**

**LMC**

Lieberman Music Company  
 9549 Penn Avenue South · Minneapolis, Minnesota 55431



First Class

# LMC News Notes

Volume 5, Number 1

January 1985

## KITCO

**Subject:** Crown's Golf Power Supply

**Problem:** Loss of regulated 12 v.d.c.

**Cause:** Failure of 7812 I.C. regulator

**Solution:** Replace defective component. When reassembling the power supply, please:

A. Insure that the metal tabs of the regulators are making physical contact with the heat sink.

B. Make sure that the two screws connecting the heat sink to the chassis are firmly tightened for proper heat dissipation.

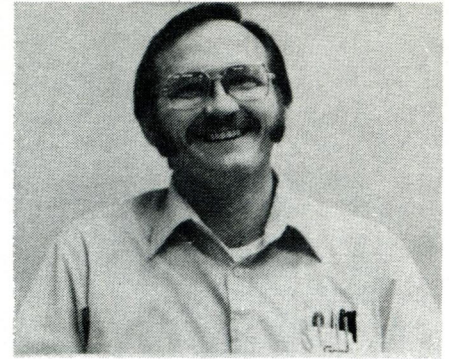
Additionally, in some cases, failure of the 7812 regulator will cause inductors L3 and L4 to fry. New inductors can be easily manufactured by wrapping exactly 31 inches of the same gauge wire (use an old pinball coil) around the inductor eyelet.

## KITCO

**Subject:** Crown's Golf Credit Problem  
**Problem:** Hitting "Club Select" button on control panel causes game to register credits.

**Cause:** "Club Select" button is on same return line as coin switches and service switch. If the service switch is in its activated position, the logic board regards the "Club Select" button as a coin switch.

**Solution:** Verify that the Service Switch, located inside the coin door, is in its neutral (center) position. Make sure that it is not being inadvertently activated by the harness when the door is closed. If all else fails, remove one of the wires from the switch.



Cecil Waulk, LMC operations manager

## OBA Notes

NOTE—50A on bill pressure solenoid: Disconnect, and check before turning unit on.

NOTE—When replacing bill pressure solenoid, remove side plate on motor side only. Loosen other side only.

NOTE—650503-01, 02 and 650582-01, 02, 04 are interchangeable.

NOTE—On 650508-02 power supply & motor control boards for BCI's relay K103, and diode CR114 are deleted. Add above pts. for phono.

NOTE—Use only 251916-01 4th edition manual only for service.

NOTE—45057502, 450575-04 are the same, except for mounting.

NOTE—inability to adjust motor speed, Z1 F/V converter (LM2917) is probably bad.

*Jerry Johnston, LMC*

## BALLY

### To Sente Game (Main Frame) Owners

Enclosed you will find a 9 pin Molex plug. If there is a 9 pin plug on your "master B" cable, no changes are necessary.

However, if there is a 9 pin receptacle, you must change the receptacle to the enclosed plug.

Please change one pin at a time, taking care to put the proper pin into the correct hole. (Pin 1 from receptacle to pin 1 of plug, pin 2 from receptacle to pin 2 of plug, etc.). The numbers are stamped on the housings.

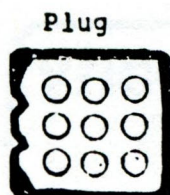
## BALLY

### To Sente Kit Owners

Enclosed you will find a 9 pin Molex receptacle. If there is a 9 pin receptacle on your control cable, no changes are necessary.

However, if there is a 9 pin plug, you must change the 9 pin plug to the enclosed receptacle.

Please change one pin at a time, taking care to put the proper pin into the correct hole. (Pin 1 from plug to pin 1 of receptacle, pin 2 from plug to pin 2 of receptacle). The numbers are stamped on the housings.



## BALLY SENTE

**Game:** Bally Sente Sac I (Serial Nos. 101 to 218)

**Condition:** A possible 117VAC short condition under Electronic Chassis Assembly (000-6011-10-0A) when panel is moved in and out.

**Modification:** When the 117VAC Safety Switch was eliminated, wire nuts were used to secure the wires. They can be pulled off, and to prevent a short condition, tape and dress these two wires.