

# Technical Bulletin

HAMMOND ORGAN

*"music's most glorious voice"*

TO ALL MAINTENANCE ENGINEERS - CHANGES

SUBJECT: PHOTOCCELL EXPRESSION CONTROL

NO. MODELS

40 L-100, S-100  
3000 & 4000 Series

The more recent production models of the above listed instruments have a photocell type expression control. This control is expected to be relatively trouble free and is a direct replacement for the earlier potentiometer type control, with one exception; the light source for the control has to be tapped into the 6 volt supply in the instrument.

Instructions for adapting the new control to earlier instruments are attached.

If an owner desires to update his instrument, it will require a complete new expression control assembly. The removed assembly need not be returned. The new assembly is priced at \$20.00 less your usual discount.

All components for the potentiometer type control are, and will continue to be available.

NOTE: This bulletin is a confidential letter to the Hammond dealer organization and is not for general distribution.  
HAMMOND ORGAN COMPANY, 4200 W. DIVERSEY AVE., CHICAGO, ILL., 60639

CONVERSION FROM POTENTIOMETER EXPRESSION CONTROL TO PHOTOCELL CONTROL

SERIES 2000 - 3000 - K-100 L-100 & S-100

Series 2000 & 3000 - Part Number AO-30090-2 K-100 - Part Number AO-30090-1

1. Remove Expression control housing.
2. Unplug two shielded leads leading from control to Power Amplifier Chassis.
3. Remove four screws securing Expression Control chassis to floor of cabinet.
4. Remove Expression Control as one unit.
5. Place new Expression Control in position and secure with original four screws.
6. Plug two shielded leads into Power Amp. Chassis jacks.
7. Solder the two brown leads from Expression Control to pins 3 & 4 of six pin octal plug in Amplifier Chassis (you will find two brown leads already there; these supply 6.3 Volts for pilot light).
8. Replace Expression Control housing.

Series L-100 - Part Number AO-30090-4 & AO-21908-0 Terminal Strip

1. Remove Expression Control housing.
2. Unplug long shielded lead from Percussion Amp. Chassis and short shielded lead from Power Amp. Chassis.
3. Remove four screws securing Expression Control Chassis to floor of cabinet.
4. Remove Expression Control as one unit.
5. Place new Expression Control in position and secure with original screws.
6. Plug long shielded lead into Percussion Amp. jack and short lead into Power Amp. Jack.
7. Using accompanying Terminal Strip, splice two Brown wires from Expression Control into Blue & Gray 6.3 V filament leads originating in 6 pin rectangular plug on Power Amp. Chassis. Secure Terminal Strip to cabinet floor with small wood screw.
8. Replace Expression Control Housing.

SERIES S-100 - Part Number AO-30090-3

1. Remove Expression Control Housing.
2. Unplug two shielded leads leading from control to Generator Chassis.
3. Remove four screws securing Expression Control Chassis to floor of cabinet.
4. Remove Expression Control as one unit.
5. Place new Expression Control in position and secure with original four screws.
6. Plug both shielded leads into Generator Chassis Jacks.
7. Connect two Brown leads from Expression Control to 6.3 volt terminals on Power Supply Chassis (Terminal Cover will have to be removed).
8. Replace Terminal Cover & Expression Control Housing.