

## OPERATING INSTRUCTIONS

### PETERSON COMBINATION ACTION

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The **Peterson Solid State Combination Action** is designed to recall the desired stop registrations of an organ by pressing a piston button on the key strip under the manual keys or pressing a toe stud with the foot. These piston buttons can be arranged by the organ builder as "divisional" pistons, affecting one particular division, or as "general" pistons, affecting all the stops in the organ.

Combinations can be "set" in two different ways. A desired stop combination can be "captured" by pressing and holding the "set" button, and then pressing the numbered piston, divisional or general, that is to recall that registration. Release the numbered piston and then release the set piston. That stop combination is now stored in the memory and can be recalled at any time by pressing the numbered piston only. The other method of "setting" is to press and hold a numbered piston, divisional or general, and register the stops as desired. (The combination action will automatically go into the "set" mode after about one second, so it is not necessary to press the set button). The stop combination will automatically be stored in the memory. This is equivalent to the older "tripper" type of combination action found on some organs.

Stop combinations may be canceled at any time by pressing the "cancel" button. (There may be a divisional cancel and general cancel). Pressing the cancel button will not affect settings stored in the memories but will turn all the stops off.

On multiple memory systems, entirely different registrations can be set on the same pistons by selecting a different memory bank with the switch provided. This allows different organists to each have their own combinations.

On organs where a "lock-out" switch has been provided by the builder, combinations that have been set into the memories can be protected from accidental re-setting by use of this "lock-out" switch. With this switch in the "lock" position, memories can not be changed (re-set).

Note: The memories will automatically be protected against setting if the crescendo or sforzando (tutti) are on. These could otherwise be set by mistake. Be sure both crescendo and sforzando are off, for normal setting.

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## IN CASE OF DIFFICULTY

If the combination action fails to operate normally, or if memories appear to be changing, the following information (trouble-shooting guide) should be checked before calling the serviceman or factory. This will aid them in determining the probable cause so they can be properly equipped for any necessary service call.

### PROBLEM

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### THINGS TO CHECK

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1. Piston(s) cannot be set (changed).

A. Is sforzando (tutti) or crescendo on?  
B. Is "lock-out" switch in lock position?

2. Piston(s) dead (stops won't move).

C. Are all divisions affected or will any one division work properly?

D. Are both "capture" and "tripper" modes not working?

A. Are any of the piston buttons (or cancel) stuck in (won't return)?

B. Do any of the pistons work? Is only one division affected?

C. Will cancel(s) work?

3. Individual stops won't set "On".

A. Does the stop speak or remain silent with the stop in the position?

B. Are stops that won't set grouped together?

4. Piston(s) will make stops move, but change before finished, or give wrong combination.

A. Does proper combination try to come on?

B. Does combination obtained end up being from some other or cancel?

piston



affected?  
C. Is only one division affected  
or are all divisions

5. Piston(s) set but memories  
changed later.  
A. Was there a prolonged power  
loss? (Battery did not hold)

(set-on),  
or both?  
B. Have stops been added  
been lost (set off)  
(Random setting).

the  
stops  
C. If pistons are reset to the  
desired stop combination do  
same pistons or the same  
change if tried again?

D. Are stops affected straight,  
couplers, tremolos etc.?

E. Do memories change while organ  
is being played or when organ  
has been off?

order  
F. Are the memory changes random,  
or is there some repeated  
to the change?

6. Any of the above problems  
work  
A. Does the rest of the organ  
properly?

If the serviceman or factory require additional information,  
do you have access to a voltmeter?

For additional information about this combination action or  
for service contact: \_\_\_\_\_ phone: ( ) \_\_\_\_ - \_\_\_\_

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