

# A. J. & L. Taylor Ltd.

Thorpe Street, Ramsbottom, Lancashire, England. BL0 9QJ.  
Tel (44) 01706 826021 Fax (44) 01706 827769 <http://www.ajltaylor.co.uk>



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## TMS 9000 Combination Systems



General  
Crescendo & Tutti  
Stepper  
Sequencer  
Memory Card Storage  
Mimic  
TMS 32 & 64

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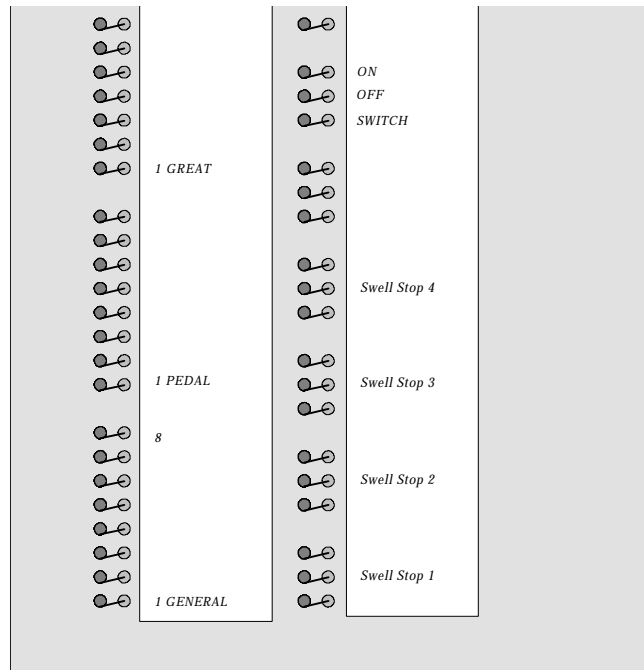
### TMS 9000 Combination Systems

The TMS 9000 Piston Combination System provides all the necessary playing aids and is designed for use with Drawstop, Stop key or Illuminated switch consoles.

Features:

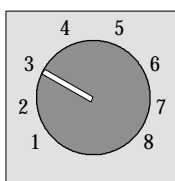
- Simple and fast installation
- Simple Test Board set out
- Modular Design to cater for future additions
- Green recyclable system
- Normal operating voltage 12 to 24 volts DC
- 1 amp output drive capacity
- Spark suppression diodes fitted as standard
- Standard metal enclosure finished in matt black  
size W:500, H:255, D:235
- Standard size switch panels 90 x 50mm or 50 x 50mm

- 16 or more stops per. division
- 8 or more divisional pistons
- Divisional Cancels
- Optional Illuminated pistons
- 16 or more reversible pistons
- 8 or more general pistons
- General Cancel
- Setter
- 8 or more divisional levels (channels)
- 8 or more general levels (channels)
- Piston Couplers
- Optional Crescendo Pedal
- Optional Tutti Piston
- Optional Stepper
- Optional Sequencer
- Optional Memory Card Storage
- Optional Mimic

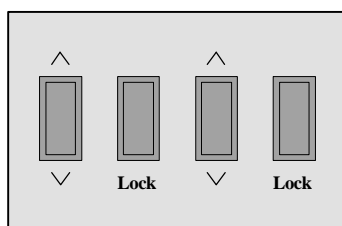


**Pinboard Layout**

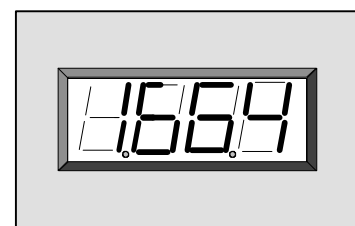
**8 or more Divisional Levels ( channels )**  
**8 or more General Levels ( channels )**  
**Simple Rotary Switch or Level Switch Panel and LED Display Panel**



**Rotary Switch Panel**



**Level Switch Panel**



**Level Display Panel**

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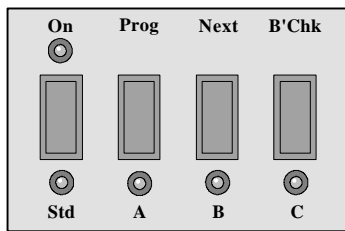
### Crescendo & Tutti

The Crescendo pedal and Tutti piston are designed to operate the organ stop action without operating the drawstop action; that is, they operate blind.

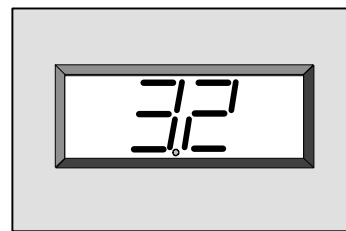
#### CRESCENDO PEDAL

The crescendo pedal has 32 stages. In addition to a standard setting three other settings A, B, & C can be selected.

- On** Normally, the display will follow the pedal movement. However, only when the crescendo pedal is switched on will the outputs be active.
- Crescendo Program** This switch is used when programming the crescendo pedal and is provided with a small flashing LED to confirm the program mode. When in this mode the crescendo pedal is disabled.
- Next** This switch is used when programming the crescendo pedal to select each stage which is to be programmed. Alternatively, the crescendo pedal may be used to select each programmed stage.
- Blind Check** This switch is used to confirm the settings programmed on the crescendo pedal or tutti piston by operating the drawstop action. The blind check will only operate when in the crescendo program mode.



Crescendo Switch panel



Crescendo Display Panel

#### TUTTI PISTON

The Tutti or Full Organ piston operates in a similar way to a crescendo pedal stage. The tutti piston is programmed using the setter piston. The selected registration can be checked using the blind check switch.



**Tutti Piston** (Supplied by organ builder)

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### Stepper

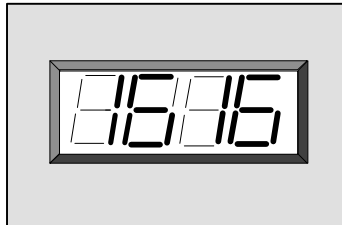
Playing aids have always reflected the music of the period. Many organs have no playing aids, some are fitted with primitive fix combination pedals, and others have a modern instantly changeable combination system.

The use of playing aids can add another dimension to the music, providing the organist with a palette loaded with musical colours and textures.

The commercial demands made on Concert Hall Managers to achieve as much usage as possible has severely reduced and restricted time available for practice. Add to this the possibility of an unfamiliar organ console and, in this situation many recitalists gladly accept any aids that will allow more efficient use of practice time.

Today, modern technology makes almost anything possible. So was born the piston stepper and sequencer.

The piston stepper is a simple aid that allows advancement through the general pistons using NEXT and PREVIOUS pistons. The NEXT piston automatically advances the registration to the next general piston setting. The PREVIOUS piston allows movement backwards through the general pistons. The stepper display provides a visual indication of the exact position and displays the level and general piston number. Alternatively, the level display can be augmented by illuminated thumb and toe piston which indicate the last general piston used.



**Stepper Display** ( 90mm x 50mm )

*Display showing general level and last general piston pressed*



**Next & Previous Pistons** (supplied by organ builder)

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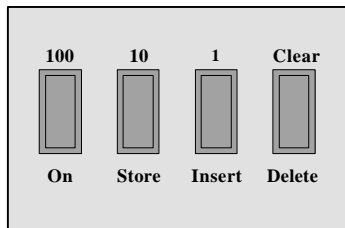
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### Sequencer

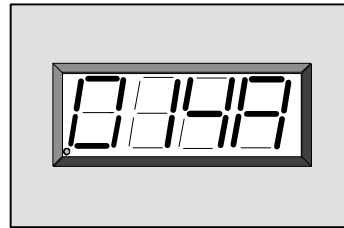
The sequencer allows the storage of a completely independent set of general registration settings that are instantly recalled using a NEXT and PREVIOUS piston, The size of the organ will dictate the number of sequencer settings that are available. Normally in excess of 1000 sequencer settings can be stored, equivalent to an additional ten general pistons on one hundred levels.

The sequence number therefore represents the registration steps through a piece of music. In many cases reflection will dictate that changes are necessary and may involve the addition or removal of sequences. The INSERT and DELETE switches have been provided for such occasions. The INSERT function allows one insert to be made between two sequences and is indicated by a suffix to the display. The DELETE function allows a sequence or a set of sequences to be deleted.

In addition to the next and previous pistons a RESTORE piston is provided. It must be remembered that the sequencer works alongside and in addition to the normal piston system. A visual LED is provided to indicate when the sequencer display has been over-ridden and is no longer valid. This could occur when the registration has been changed by hand or by use of pistons. The RESTORE piston is used in this situation to restore the registration to that indicated on the sequencer display but not advance to the next sequence.



**Sequencer Switch Panel**



**Sequencer Display Panel**



**Previous Piston**



**Restore Piston**



**Next Piston**

*Pistons supplied by organ builder*

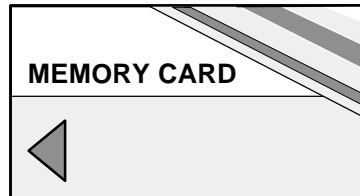
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### Memory card Storage

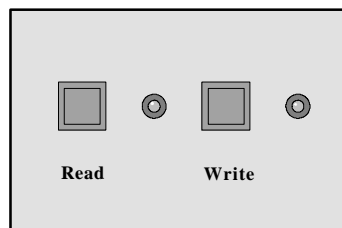


The use of Credit Cards has had a dramatic effect on our way of life, in particular our sometimes reliance on plastic money. Unlike normal credit cards which use magnetic properties to store information, the IC Memory Card, as its name implies, contains semiconductor ICs; and is able to store much more information.

The fact that the ICM cards can store vast amounts of information makes them comparable with floppy discs for large scale data storage. The main advantage of the card compared with the floppy disc is its ruggedness and the fact that there are no moving parts. Many of the cards applications capitalise on these advantages and we find cards used for data collection in Formula One racing cars, point of sale terminals and data logging applications.

The card is, therefore, eminently suitable for the storage of organ piston data and, using a card read/write unit, piston information can be transferred on to the card or information stored on the card can replace already stored piston data. This is particularly useful when more than one organist has free access to an instrument; allowing complete integrity between organists.

The card allows the organist to take away a complete copy of piston data including all departmental and general settings on all levels and sequencer information. Since each card can hold different information, the organist can build up a library of repertoire and piston information.



**Memory Card Control Panel**

Two switches are provided to transfer information to and from the cards memory. The WRITE switch instructs the unit to copy all the information held in the piston system into the cards memory. The READ switch instructs the unit to copy all the information held in the cards memory into the piston systems memory, displacing all the existing settings.

Cards are available with write protect switches which effectively converts the card to read only memory. It is an advantage to have one such read only card programmed with one set of divisions, general and crescendo pedal settings so that the system can easily and effectively be cleared in preparation for a visiting organist.

The read/write unit is connected to the TMS 9000 piston combination system using a standard RS232 cable connector. This, if necessary, allows the unit to be placed remote from the main combination system.

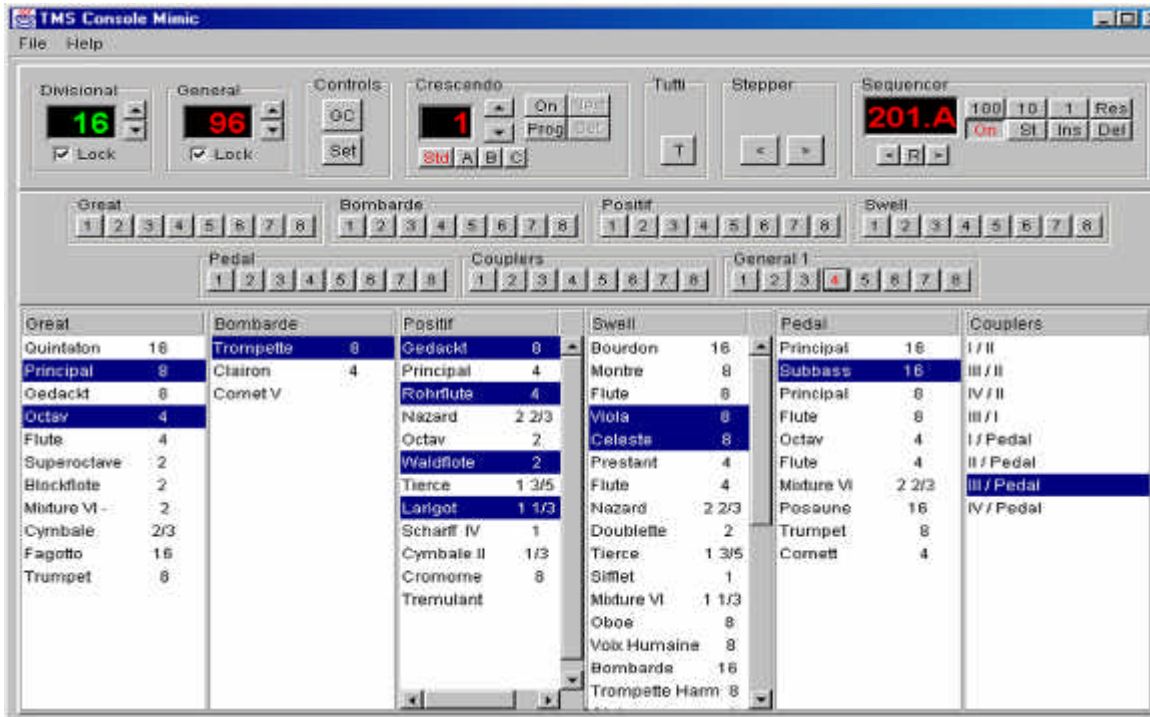
A second reader may also be fitted to a desk top computer to allow programming of pistons remote from the organ.

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### TMS 9000 Mimic



The TMS 9000 Mimic allows the remote programming of piston combinations from a personal computer. The settings are transferred to and from the organ using the card reader. Alternatively the system may be used by organists that do not have a TMS System but wish to store registration settings.

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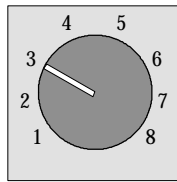
## TMS 32 & 64 Piston Combination Systems

The TMS 32 is an economical 2 level piston combination system for up to 32 stops.

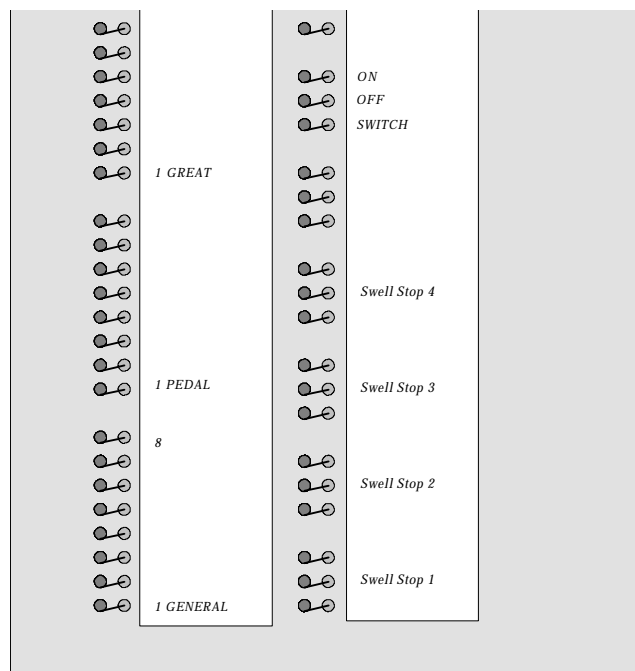
The TMS 64 is an 8 level piston combination system for up to 64 stops.

Features:

- Simple and fast installation
- Simple Test Board set out
- Green recyclable system
- Normal operating voltage 12 to 24 volts DC
- 1 amp output drive capacity
- Spark suppression diodes fitted as standard
- Standard metal enclosure finished in matt black
- Size 265 wide, 235 deep, 265 high
- Standard size rotary switch panel 50mm x 50mm



**TMS 64 Rotary Switch Panel 50mm x 50mm**



**Pinboard Layout**