



MAXIMUM TECHNOLOGY

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Professional Bowling Products

Installation manual Solid State Motor Startswitch

For National motors.



Bowling produkten?.....Maximum Technology!

Besturingskasten voor AMF, Brunswick en alle merken touwmachines. Universele Foutlijn Units. Elektronische motorstarters voor AMF motoren. Elektronische Triggering. Tafel-, Sweep- en Back End Motoren voor AMF machines. Time Delay Modules met of zonder Elektronische Triggering. Reparatie van en onderdelen voor vrijwel alle bowling elektronica.

Step 1: Open the motor.

Unscrew the motorplug housing and lift up the motorcover.

Step 2: Remove the old startswitch.

Take the wires off the old startswitch. Undo the two mountingscrews and remove the old switch.

Step 3: Connect the new Startswitch.

Join the two wires from the old startswitch with a wirenut. Remove the wire from terminal Z of the motorplug and connect it to one of the black wires of the new startswitch. Connect the other black wire to terminal Z of the motorplug.

Connect one of the brown wires of the new startswitch to terminal CT of the motorplug. Connect the other brown wire to terminal NIL of the motorplug. Leave the existing wires in place.

Step 4: Complete the installation.

Before you reassemble the motor on the machine, it is recommended that you remove the centrifugal mechanism from the motorshaft. When the mechanism gets older, some parts might fall into the motor and cause damage to the motor windings!

Put the wires of the startswitch through one of the ventilation holes of the motorcover. Put the motorcover back on the motor. Mount the wires of the startswitch to the motorcover with a cable ty, preventing them from being damaged by the moving parts of the motorshaft. Mount the motorplug on the motorcover. Put the plug in the startswitch and mount it on the side of the motor with the velcro tape.

Step 4: Test the motor on the machine.

Mount the motor on the machine and check if it runs O.K. If the startswitch is installed properly, the motor should start up in both directions, without any changes in the machine wiring.

Bad electrical components can be the cause of many motor problems. If the motor will not start up properly please check the following:

Motorcables, pins in the C1 plug on chassis and C1 cable assembly, start capacitors in the channel and sweep and table contactors in the chassis.

P.S.

The Maximum Technology motor startswitch is the only solid state motor startswitch that does not require any changes in the machinewiring to keep the sweep reverse function. Motors with Maximum Technology startswitch are interchangeable with every other motor of that type. It can be used on every machine in your centre, even if the machinewiring has been converted for other types of startswitches.

Every time the motor starts up you will see a green light in the plug of the startswitch. This is the light of a green LED that indicates that the motor is getting power to start up.

