

Modern Motion...

Technical Note: Discontinue NM70-Super, Enter NM706-Super

Released: March 31, 2010

Discontinued NM70-Super:

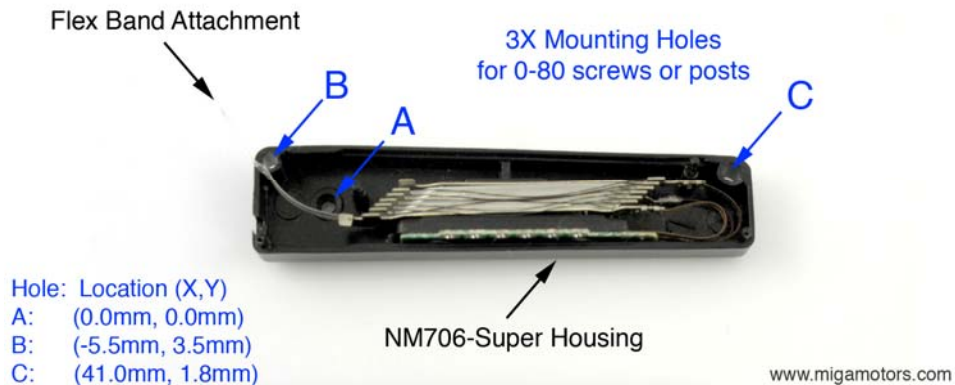
Miga has recently sold out all of the original NM70-Super linear SMA actuators (as shown below). While production has been discontinued, we could go back into volume production at any time for orders in excess of 2,500 units.



Discontinued NM70-Super

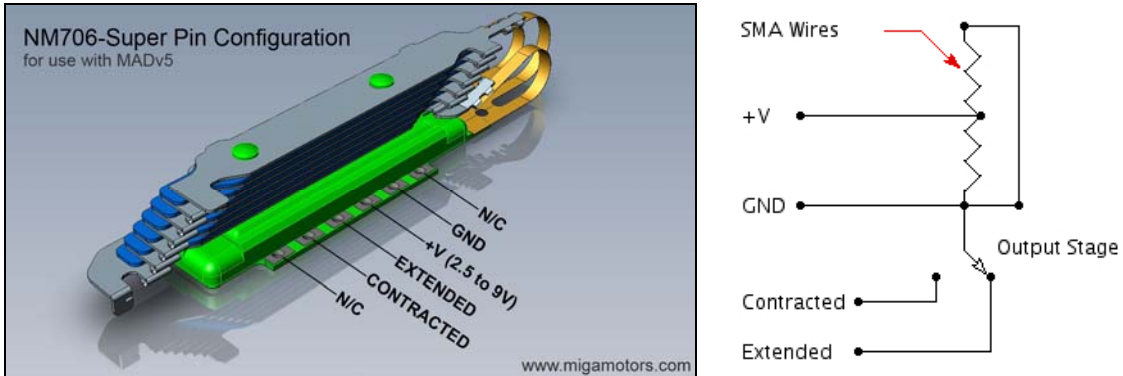
Enter the NM706-Super:

The motor from the NM70R-6P provides an immediate replacement for the NM70-Super. The **NM706-Super** is very similar to the original NM70-Super, except that there is no internal circuitry on the PCB, which actually makes the actuator more compatible with user-control via a micro-controller. The NM706-Super is being delivered inside the bottom 'shell' (or base) of the housing, which provides several mounting options as shown below. Also note the flexible plastic band linkage.



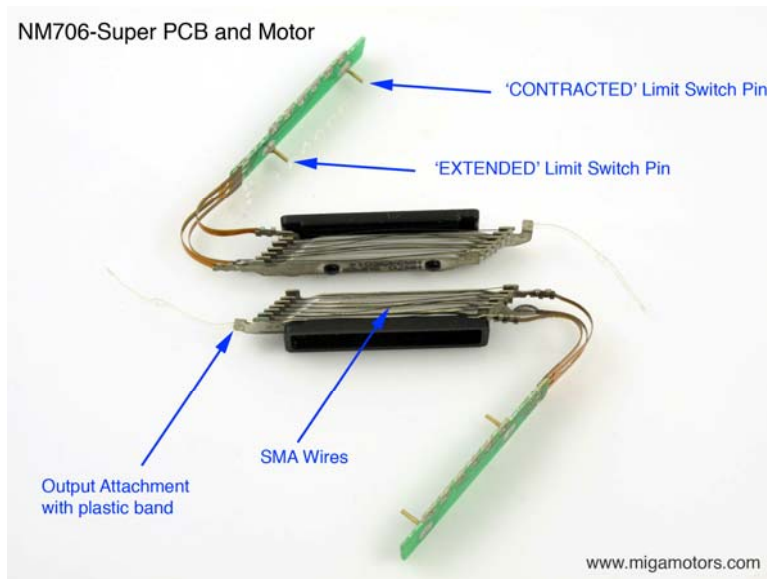
Mounting Options for NM706-Super

The pin-out and circuit diagrams for the NM706-Super are shown below. Note that this is the configuration shown in an earlier Tech Note: 'Powering the NM70R-6P with the MAD-V5', for which the Miga Analog Driver (MADv5) monitors the Extended pin ('END' Switch), and safely removes power to prevent overheating of the SMA wires.



Pin-out & Circuit Diagrams for NM706-Super

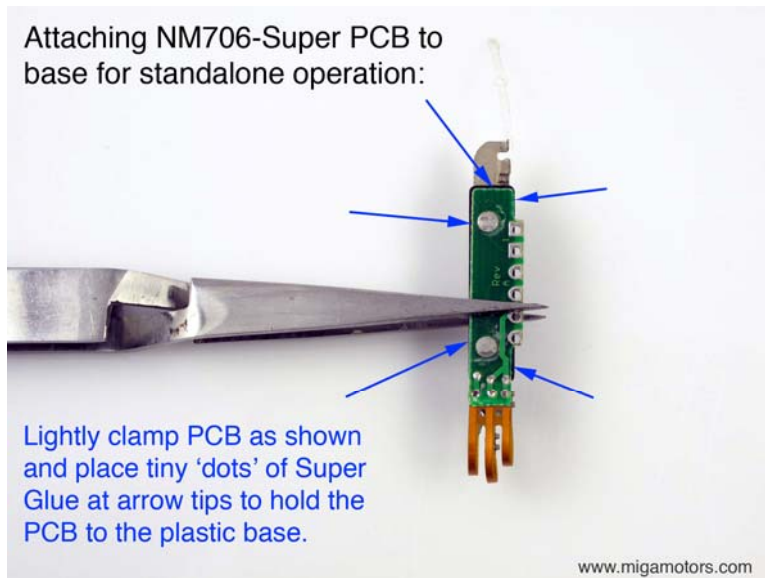
The NM706-Super can be removed from the housing (as shown below) to solder electrical connections. When removed from the housing, the PC Board 'flops' outward, as it is held in place only by the 'clamp' configuration of the housing. Be careful not to break off the sensitive Limit Pins when exposed this way.



NM706-Super Exploded View

If you wish to mount the NM706-Super for standalone operation (not using the plastic housing), you can super-glue the PCB to the base by carefully placing several drops of super glue as shown below. The outer two contacts

(shown as N/C or 'Not Connected') can also be used as mechanical mounting points if soldered to a 6-pin header, for example.



Gluing for Standalone Mounting

We hope that the new NM706-Super provides more opportunities for you to safely and simply integrate shape memory actuators into your applications.

Miga Motor Company

¹⁾ *Technotes available Online at <http://www.migamotors.com/Downloads.html>*