

## 4. TROUBLESHOOTING

### 4.1 7-SEGMENT DISPLAY

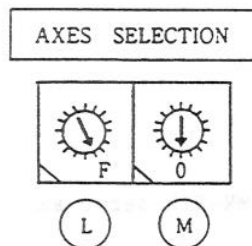
The amplifier's state is indicated by 7-segment display located at the upper left corner of the amplifier.  
When there is any alarm, alarm number is also displayed on the display.

State display of MR-S amplifier

Display	State	Description
AA	INITIALIZE	Waiting for the touch up of NC power supply (NC power On → Off)
Ab	INITIALIZE	Waiting for the touch up of NC power supply (Amplifier power Off → On and NC power Off)
AC	INITIALIZE	Parameter transfer is demanded.
Ad	INITIALIZE	Parameter change is demanded.
AE	INITIALIZE	Waiting for main servo IT start.
b#	READY OFF	At Ready Off
C#	SERVO OFF	At servo Off
d#	SERVO ON	At servo On
F# → E*	WARNING	Warning is given.
F# → A*	WARNING	Warning is given.
F# → **	ALARM	Alarm is given.
..	WATCH DOG ALM	Watch dog alarm
FA	NO CONTROL L	L axis off-control (Note 1)
Fb	NO CONTROL M	M axis off-control (Note 2)

(Note 1) If, while the power of the amplifier is turned off, the axis select switch at the top left of RG201 is set to "F" and power to the servo amplifier is turned on, overall control is not conducted on that axis.  
(Neither is communication with NC for initializing made nor is the alarm given.)  
In a case shown below, the L axis becomes off-control.

(Example)

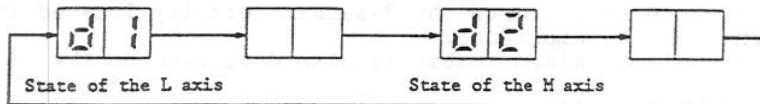


# : Axis No.  
\* : Warning No.  
\*\* : Alarm No. (See servo alarm and warning.)

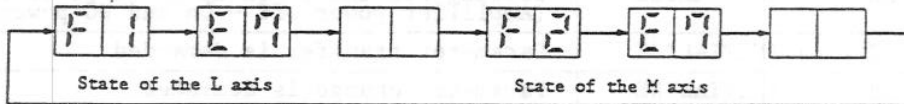
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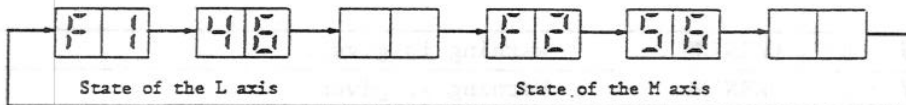
State display after INITIALIZE is indicated orderly as the lighting and extinguishing are repeated for each axis. Some examples are shown below. (Example 1) When the L axis is assigned to the No.1 axis (X axis) and the M axis to the No.2 axis (Y axis), it is servo On with both axes.



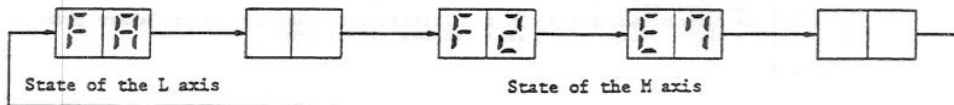
(Example 2) With the above axes designation, the emergency stop signal is input from NC.



(Example 3) With the above axes designation, when the motor overheat alarm (No.46) is given on the L axis (X axis), the following display will be indicated. (On the M axis (Y axis), the error on the other axis alarm is given.



(Example 4) When the AXES SELECTION switch is set to "F" because the L axis is not used, and power is turned on. There is an emergency stop signal input to the M axis from NC.



Servo alarm and caution

## 4.2 TROUBLESHOOTING

Refer to Maintenance Manual of MR-S11 servo amplifier.