

## EXPLANATION SHEET ON THE FX-20P-RWM ROM WRITER MODULE

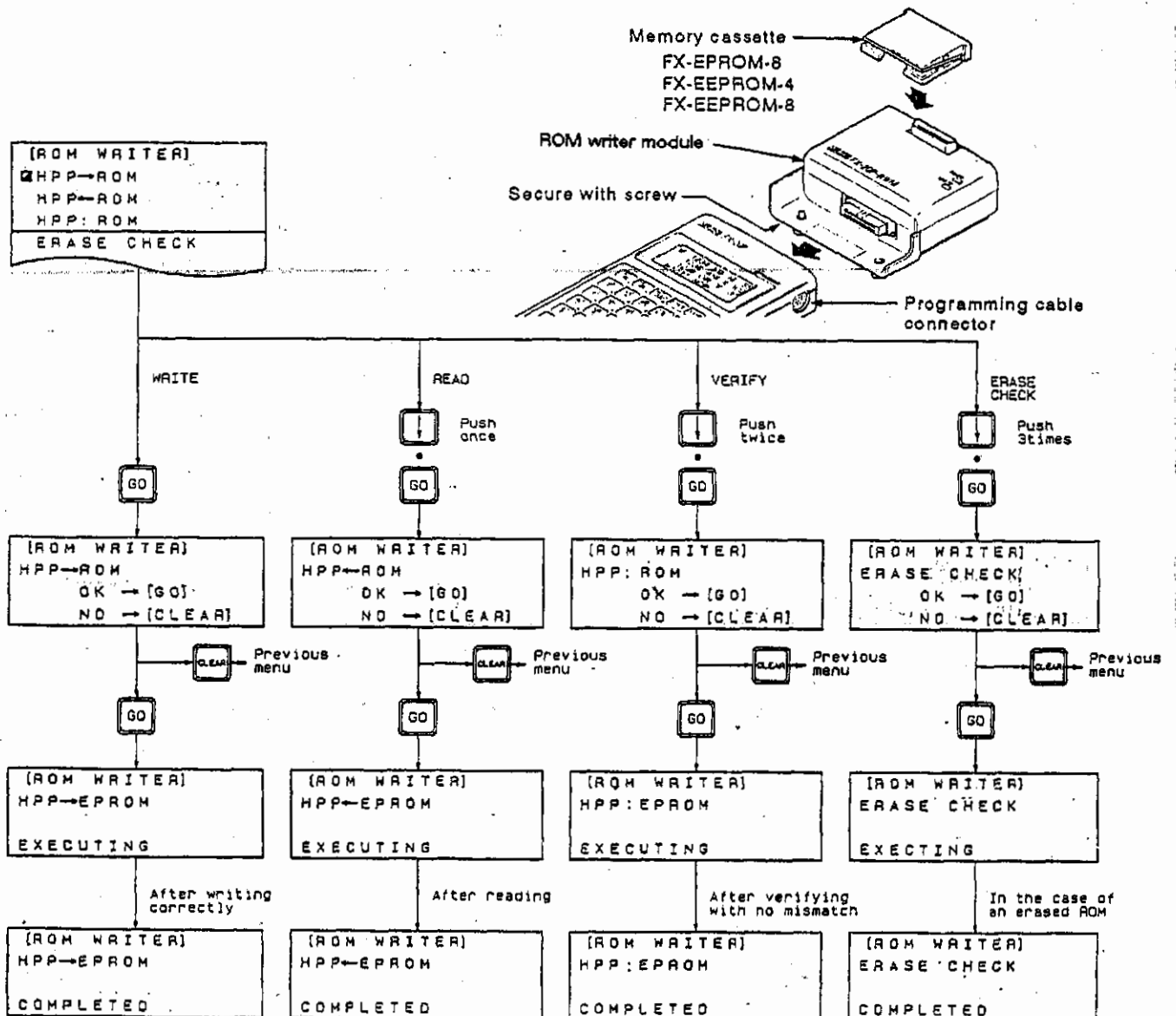
### 1. SUITABLE MEMORY CASSETTES

FX-EEPROM-4 (4K steps), FX-EEPROM-8 (8K steps), FX-EPROM-8 (8K steps).

Do not insert or remove memory cassettes from the ROM writer while the WRITE LED is ON.

### 2. OPERATION OF THE MODELS

- (1) The FX-20P-RWM ROM writer connects to the FX-20P-E programming panel in the manner shown by the diagram below. Ensure that the power is OFF when attaching the module by disconnecting the programming cable from the programming panel. To prevent the module from disconnecting, tighten the provided screw on the reverse side of the module.
- (2) Return power to the Handy Programming Panel (HPP) and select the module option from the offline mode menu.
- (3) Select the function within the following menu :



### 3. ERROR MESSAGES

- (1) "WRITE ERROR"  
Failure to write correctly to the memory cassette. In the case of the EPROM cassette, try again after the EPROM cassette has been erased by an ultra-violet light eraser.  
In the case of the EEPROM cassette, switch the write-protect switch to the OFF position and try again.
- (2) "VERIFY ERROR"  
The contents of the memory cassette does not match to that of the HPP panel .
- (3) "ROM MISCONNECTED"  
The connection of the cassette to the ROM writer is incorrect. Re-connect in a correct manner.  
This message is also displayed when an erase check is attempted with an EEPROM casstte. Erase check is not an applicable function to the EEPROM cassette and the message should be ignored in this case.
- (4) "ERASE ERROR"  
Erase the EPROM cassette by an ultra-violet light eraser before attempting to write to the EPROM cassette.

### 4. WRITE TIMES

PROGRAM SIZE (set by parameter)	EPROM	EEPROM
2K steps	approx. 20s	approx. 15sec.
4K steps	approx. 40s	approx. 25sec.
8K steps	approx. 80s	approx. 50sec.

### 5. POINTS TO NOTE

- (1) Ensure that the power is OFF when connecting or removing a memory cassette from the ROM writer.
- (2) The memory type of the cassettes are automatically recognized and selected by the HPP unit.
- (3) With the FX-20P-MFA-E system memory cassette, (used for F1, F2 series), the usage of the ROM writer is not available. However, the F1, F2 programs can be converted to the FX format with the FX-20P-MFA-E system cassette and then transferred to the memory cassettes by swapping the FX-20P-MFA-E with the FX-system cassette.