



# MDM-100T1

Multi Display Monitor  
For TOYOTA(OBDI)

## INSTRUCTION MANUAL

Thank you for purchasing TECHTOM's MDM-100.

Please read this manual carefully prior to installation and/or operation of product. If you have any difficulty with the product, please contact your dealer or Technosquare for technical support.

MDM-100T1 works on 1989 and later model year vehicles equipped with self diagnostic system (OBDI) and compatible connection ports.

If your ECU has been modified or replaced with aftermarket engine management products, MDM may not work correctly.

### **!CAUTION!**

- DO NOT disassemble units.
- DO NOT place units on or near heat source.
- DO NOT leave in direct sunlight.
- AVOID contact with water.
- Ensure MDM, connector, and cable are securely attached and do not obstruct driving.
- DO NOT connect MDM to any connector other than designated diagnostic connector.

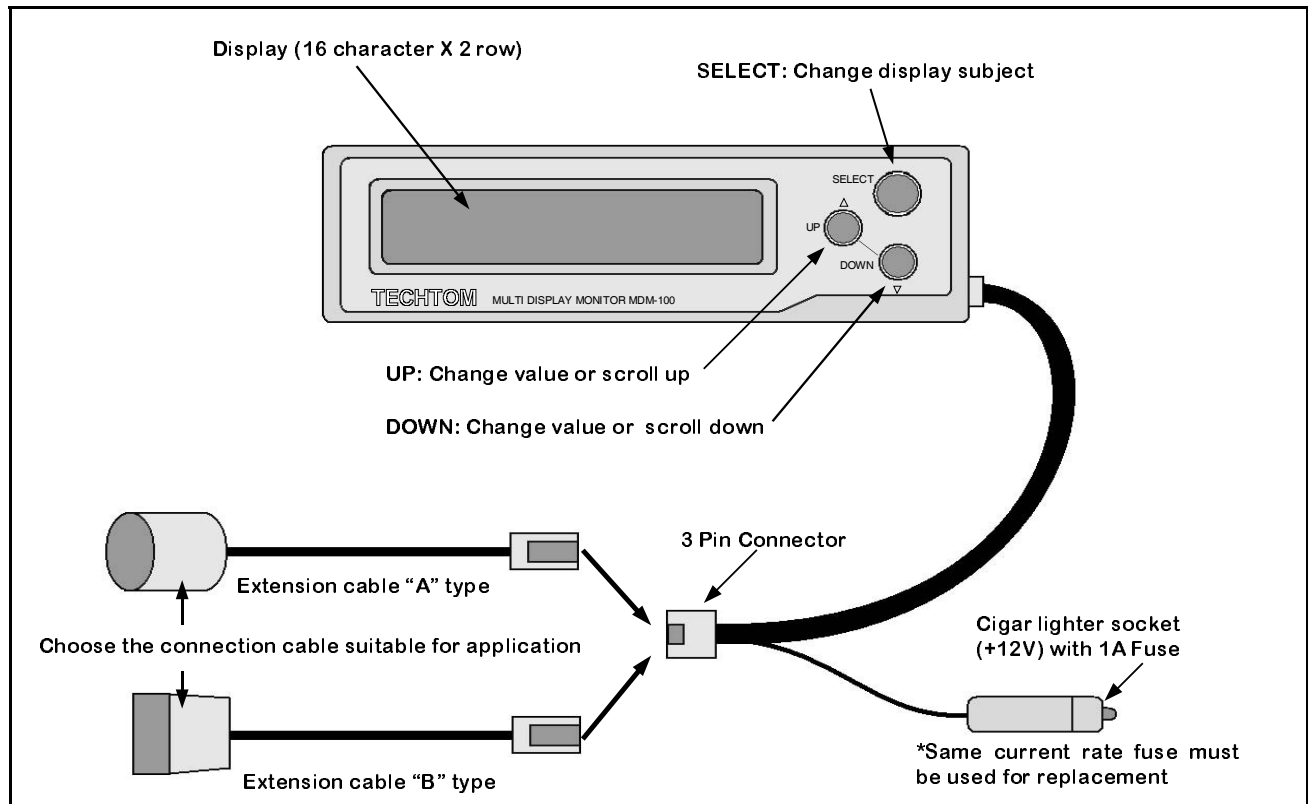
### **I. Contents of MDM-100**

Package contains following items

MDM-100 Unit x1  
Extension Cable "A" type X1  
Extension Cable "B" type X1

Heat resistant hook-and-loop fastener x1  
Cable ties x5

## 2. Overview of MDM-100



## 3. Installation

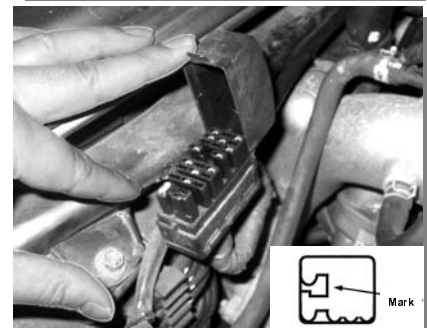
1. Find a suitable location for MDM. Make sure the mounting surfaces are clean. Secure the MDM by using hook-and-loop fastener or double sided tape. After attaching MDM, do not move tape for about 24 hours.
2. Locate diagnostic connector on your vehicle.

**Case A:** If your vehicle's diagnostic port is on the driver's side dash panel, use the extension cable "A" to connect MDM.

**Case B:** If your vehicle's diagnostic port is on the engine compartment, use the extension cable "B" to connect MDM. When you run the cable from diagnostic port to the car's interior, be sure the cable is free from making contact with any rotating parts or heat source.

Connect MDM's connector to the diagnosis port of the vehicle. These connectors have direction, so make certain the mark of the connectors match.

3. Connect 3-pin connector to MDM and plug into the cigar lighter socket for power.
4. Secure the cable of MDM with the tie wraps. Make sure the cable does not obstruct your driving.

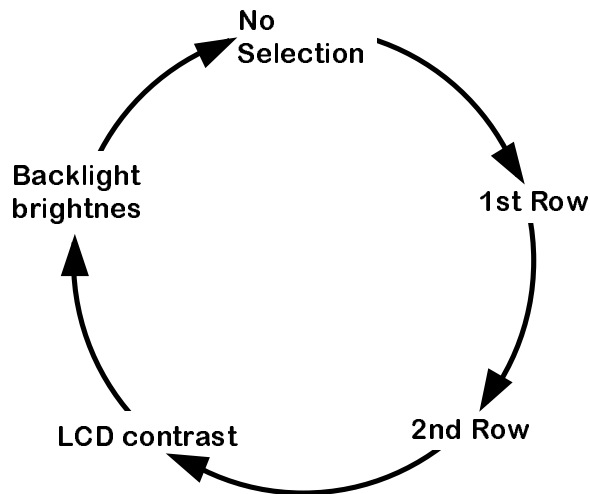


## 4. Operation of MDM-IOO

After you complete installation, start the engine. MDM should display 2 sets of data after the start up screen.

Sample	SPD	0	MPH	←	1st Row
	RPM	950	RPM	←	2nd Row

### Selecting and changing the items on screen



Choose the item to change by pressing SELECT button. Arrow points to selected item.

SPD	0	MPH
→ RPM	950	RPM

Each time SELECT is pressed, the arrow will move to next available item.

Change the setting by pressing the UP or DOWN button.

Whenever you make a change, the display will return to the normal screen in 5 seconds. (MDM will recall the changes you make, even if power is cut off)

#### NOTE:

- *The items that can be displayed depend on the automobile specifications.*
- *Values that appear on the screen are numbers from the ECU and may not be precise due to sensor's characteristics.*
- *You cannot set the same item on the screen at the same time.*
- *Refresh rate of display is approx. 1.3 sec. This is caused by the data transmission speed specification of Toyota ECU.*

### Adjusting Display

Display adjustment can be done by the following mode.

Contrast ADJ —Adjust contrast of LCD display.

Dimmer ADJ —Adjust backlight brightness of LCD display.

## 5. Trouble shooting

If MDM is not functioning properly, shut power off immediately and check the connection of connectors and cable. If cause of problem is unknown, please contact the dealer for technical support service.



#### Limited 1-Year Hardware Warranty

1. Technosquare, Inc warrants to the purchaser of this product that it will be free from defects in material and workmanship for a period of one (1) year from the date of purchase. If the product should become defective within the warranty period, Technosquare, at it's option, will repair or replace the product, or refund the purchaser's purchase price for the product, provided it is delivered at the purchaser's expense to an authorized Technosquare service facility or to Technosquare.
2. Repair or replacement parts or products will be furnished on an exchange basis and will either be new or reconditioned. All replaced parts or products shall become the property of Technosquare. This warranty shall no apply if the product has been damaged by accident, misuse, abuse or as a result of unauthorized service or parts.
3. Warranty service is available to the purchaser by delivering the product during the warranty period to an authorized Technosquare service facility or to Technosquare and providing proof of purchase price and date. The purchaser shall bear all shipping, packing and insurance cost and all other costs, excluding labor and parts, necessary to effectuate repair, replacement or refund under this warranty.
4. For more information on how to obtain warranty service, write or telephone Technosquare at 22521 Normandie Ave, Torrance, CA 90501, (310) 787-0847.

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## MDM-IOOT Display Items List

*Continue* 

Display	Description	Unit
INJ	Injector Duty Cycle	ms
DUTY	Injector Duty	%
IGT	Ignition Timing	deg
RPM	Engine RPM	rpm
SPD	Speed	km/h
WTMP	Water Temperature	C
THP	Throttle Position Sensor	Deg
ISCs	Idle Speed Control Valve	Step
ISCd	Idle Speed Control Valve	%
PIMt	Manifold Pressure	kPa
PIMn	Manifold Pressure	kPa
AFMv	Air Flow Meter-Flap	V
AFMg	Air Flow Meter-Hotwire	g/s
AFMk	Air Flow Meter-Karman	ms
STA-up	Startup Fuel Enrichment	ON . OFF
WARM-up	Warm up Fuel Enrichment	ON . OFF
A/F - L	A/F Feed back	ON . OFF
A/F - R(*1)	A/F Feed back	ON . OFF
KNOCK	Knock Control	ON . OFF
STA-SW	Starter Switch	ON . OFF
IDL-SW	Idle Switch	ON . OFF
A/C-SW	Air Condition Switch	ON . OFF
NTL-SW	Neutral Switch	ON . OFF
O2-L	Oxygen Sensor	LEAN . RICH
O2-R(*1)	Oxygen Sensor	LEAN . RICH
DIAG	Diagnostic Code	OK . NG

**NOTE:**

- *\*1: The items that can be displayed depend on the automobile specifications.*
- *Values that appear on the screen are numbers from the ECU and may not be precise due to sensor's characteristics.*
- *You cannot set the same item on the screen at the same time.*

*Continue* 

**NOTE:**

- **\*2: Choose the correct display item by engine type**

(Example)

ISCs : 1UZ-FE, 2JZ-GTE, SJZ-GE, 1JZ-GTE, 1JZ-GE

ISCd : 3S-GTE, 3S-GE, 3S-FE, 4A-GE, 4A-FE, 5A-FE, 4E-FTE, 4E-FE

- **\*3: Choose the correct display item by engine type**

(Example)

PIMt : 2JZ-GTE, 1JZ-GTE, 3S-GTE, 4E-FTE

PIMn : 2JZ-GE, 1JZ-GE, 3S-GE, 3S-FE, 4A-GE, 4A-FE, 4E-FE

AFMv : 3S-GTE (225PS)

AFMg : 1UZ-FE, 1JZ-GTE (VVT-I)

AFMk : 1UZ-FE (260PS)

- **NTL-SW is available only for A/T model.**
- **If there is a trouble code stored in the ECU, DIAG will show “NG”.**