

## TS-100/140 Instructions

### Connecting the TS-100/140

To connect your TS-100/140, first find the Diagnostic Link Connector (DLC) located on the engine near the Engine Control Module (ECM). The DLC is a connector located near the PCM of the engine.

### Operating the TS-100/140

Once connected, turn the key to the run position to begin using your TS-100/140. The Unit will establish communications and read all trouble codes. If the Unit cannot communicate with the ECM, it will display "no-C" (no communication).

After reading the trouble code (see back page), the unit will display the number read, for example: "dC-4", for 4 codes found. If the ECM does not have any DTC, then the unit will display "dC-0". Trouble codes are displayed in a 4 digit format. The chart on the other side shows some common trouble codes you will find and gives you a good starting place to look when diagnosing an engine problem. Pressing the button will cycle through the codes. After the last code is displayed you will be brought to the clear code screen, hold the button until the screen says hold and hold it until it changes to "clr" (clear). Pressing the button again will rescan for persistent error codes.

### Important Safety Messages

- Never use TS-100/140 if internal circuitry has been exposed to moisture. Internal shorts could cause a fire and damage.
- Always turn ignition key OFF when connecting or disconnecting electrical components, unless otherwise instructed.
- Always follow vehicle manufacturer's warnings, caution and service procedure.

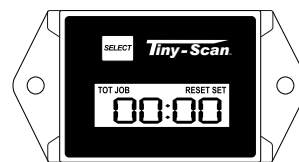
See our full line of products at  
[www.tinytach.com](http://www.tinytach.com)

Technical Support  
630-920-1300

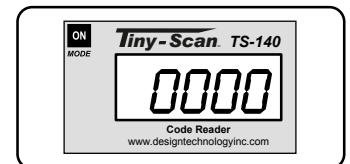
[www.designtechnologyinc.com](http://www.designtechnologyinc.com)  
[www.tinytach.com](http://www.tinytach.com)

# Tiny-Scan™

**TS-100/140**  
**Code reader for MT05**  
**Engine Control Module**



TS-100



TS-140

*Simple to use*  
*Diagnostic Trouble Codes Reader with*  
*the ability to clear trouble codes.*



Design Technology, Inc.  
768 Burr Oak Drive, Westmont, IL 60559  
(630) 920-1300

## Diagnostic Trouble Codes

<b>CODE</b>	<b>SENSOR</b>	<b>FAULT CODE</b>	<b>POSSIBLE CAUSE</b>
0031	Oxygen Sensor	Oxygen Sensor 1 Circuit Low Voltage, or Open	Open connection, broken wire or faulty sensor
0032	Oxygen Sensor	Oxygen Sensor 1 Circuit High Voltage	Shorted connection or faulty sensor
0107	Manifold Absolute Pressure Sensor	Manifold Absolute Pressure Sensor Circuit Low Voltage or Open	Intake manifold leak, open connection or faulty sensor.
0108	Manifold Absolute Pressure Sensor	Manifold Absolute Pressure Sensor Circuit High Voltage	Intake manifold leak, shorted connection or faulty sensor.
0112	Intake Air Temperature Sensor	Intake Air Temperature Sensor Circuit Low Voltage	Shorted connection, faulty sensor or shorted wire.
0113	Intake Air Temperature Sensor	Intake Air Temperature Sensor Circuit High Voltage or Open	Shorted connection, faulty sensor, broken wire or connection.
0117	Coolant/Oil Sensor	Coolant/Oil Temperature Sensor Circuit Low Voltage	Shorted connection, faulty sensor or shorted wire.
0118	Coolant/Oil Sensor	Coolant/Oil Temperature Sensor Circuit High Voltage or Open	Shorted connection, faulty sensor, open connection or broken wire.
0122	Throttle Position Sensor(TPS)	Throttle Position Sensor Circuit Low Voltage or Open	Open connection, broken wire or faulty sensor
0123	Throttle Position Sensor(TPS)	Throttle Position Sensor Circuit High Voltage	Shorted connection or faulty sensor.
0131	Oxygen Sensor	Oxygen Sensor 1 Circuit Low Voltage, or Open	Open connection, broken wire or faulty sensor
0132	Oxygen Sensor	Oxygen Sensor 1 Circuit High Voltage	Shorted connection or faulty sensor
0171	Fuel System	Maximum Adaptation Limit Exceeded	Fuel inlet screen/filter plugged, low pressure at high pressure fuel line, TPS malfunction, shorted connection, faulty sensor, low fuel or wrong fuel type.
0172	Fuel System	Minimum Adaptation Limit Exceeded	Too high pressure at high pressure fuel line, TPS malfunction, shorted connection, faulty sensor or fuel pump module failure.
0174	Fuel System	Lean Fuel Condition at High Load (Open Loop)	Fuel inlet screen/filter plugged, low pressure at high pressure fuel line, TPS malfunction, shorted connection or faulty sensor
0201	Fuel Injector	Injector 1 Circuit Malfunction	Injector damaged or faulty, shorted or open connection.
0202	Fuel Injector	Injector 2 Circuit Malfunction	Injector damaged or faulty, shorted or open connection.
0230	Fuel Pump	Fuel Pump Module Circuit Low Voltage or Open	Shorted or open connection.
0232	Fuel Pump	Fuel Pump Module Circuit High Voltage	Shorted connection.
0336	Crankshaft Position Sensor	Crankshaft Position Sensor Noisy Signal	Air gap incorrect, loose sensor, faulty/bad battery, shorted or faulty connection, faulty sensor or faulty sensor grounding.
0337	Crankshaft Position Sensor	Crankshaft Position Sensor No Signal	Air gap incorrect, loose sensor, open or shorted connection or faulty sensor.
0351	Ignition Coil	Cylinder 1 Ignition Coil Malfunction	Broken wire in harness (may not be visible), shorted connection or faulty sensor.
0352	Ignition Coil	Cylinder 2 Ignition Coil Malfunction	Broken wire in harness (may not be visible), shorted connection or faulty sensor.
0563		System Voltage Low	
1693		Tach Output (ECU) Low	
1694		Tach Output (ECU) High	
61		End of Code Transmission	