MaxScan™ GS500

User's Manual

Press [Y] to menu
Hold [N] to Tool Setup

CAN OBDII/EObD
Safety Precautions and Warnings

To prevent personal injury or damage to the vehicle or for the scan tool, read this instruction manual first and observe the following safety precautions at a minimum whenever you are using a vehicle:

1. Use a clean cloth to clean the outside of the scan tool.
2. If the scan tool is dirty, clean it off with water or oil. Use
   caution as the spinning fan is spinning at a high speed.
3. Do not connect or disconnect any test equipment while the
   tool is powered on.
4. Keep a fire extinguisher suitable for gasoline/diesel/elec.
   trical
   fires nearby.
5. Keep a fire extinguisher suitable for gasoline/diesel/elec.
   trical fires nearby.
6. NEUTRAL (For manual transmission) and make sure the
   parking
   brake is engaged.
7. Place the transmission in PARK (for automatic transmission)
   or
   neutral, then shift to PARK and turn off the engine.
8. If the engine is running, engine oil and other hazardous
   materials may be released.
   Do not perform any test in these circumstances.
9. Make sure that the engine is cool.
10. Make sure the engine is cool.
11. Operate the vehicle in a well ventilated work area. Exhaust gases
    may contain toxic fumes.
12. Keep cold air conditioning and ventilation open. You may
    be exposed to toxic fumes.
13. Always position equipment in a safe environment.
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    tool is powered on.
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    brake is engaged.
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    or
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50. If the engine is running, engine oil and other hazardous
    materials may be released.
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53. Operate the vehicle in a well ventilated work area. Exhaust gases
    may contain toxic fumes.
54. Keep cold air conditioning and ventilation open. You may
    be exposed to toxic fumes.
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2.3 Location of the Data Link Connector (DLC)

The DLC (Data Link Connector) is a connector used to provide diagnostic information to the vehicle's engine control module. It is located under the center of the instrument panel (dash). The DLC is usually part of a vehicle's on-board computer, allowing the vehicle's computer to interact with the vehicle's diagnostic system. The DLC is also used to provide access to the vehicle's diagnostic system and to access diagnostic trouble codes (DTCs).

2.4 Diagnostic Trouble Codes (DTCs)

OBD II diagnostic trouble codes (DTCs) are codes that are stored by the on-board computer diagnostic system in response to a problem found in a component that is monitored. These codes are used to identify and troubleshoot problems with the vehicle's emissions system and other systems.

### OBD II Diagnostic Trouble Codes (DTCs)

#### 2.1 General Information

The first generation on-board diagnostics (OBD I) was developed in 1988 to improve the on-board diagnostic system of new vehicles. The second generation on-board diagnostic system (OBD II) was developed in 1994 and is a more advanced system that provides more diagnostic information and is more efficient than OBD I.

#### 2.2 Diagnostic Trouble Codes (DTCs)

The DTCs are used to identify and troubleshoot problems with the vehicle's emissions system and other systems. Each code is represented by a combination of letters and numbers, and the code is stored in the vehicle's computer memory. The code is displayed on the vehicle's instrument panel for the driver to see.

#### 2.3 Reading Trouble Codes

To read the DTCs, you need to use a diagnostic scan tool or a computer program that can read the DTCs from the vehicle's computer. The scan tool will display the DTCs on a screen, and the driver can see the codes that are stored in the vehicle's computer memory.

#### 2.4 Clearing Trouble Codes

To clear the DTCs, you need to use the same scan tool or computer program that you used to read the DTCs. The scan tool will allow you to clear the DTCs from the vehicle's computer memory, and the codes will no longer be displayed on the instrument panel.

#### 2.5 Testing and Troubleshooting

Once the DTCs have been read and cleared, you can use the DTCs to identify and troubleshoot problems with the vehicle's emissions system and other systems. The DTCs will also help you determine if the vehicle is operating within the limits of the emission standards. If the vehicle is not operating within the limits of the emission standards, you may need to perform additional tests to determine the cause of the problem.

#### 2.6 OBD II System Compliance

OBD II systems are required to comply with certain emission standards. The OBD II system must be able to detect and report problems with the vehicle's emissions system and other systems. The OBD II system must also be able to store and clear the DTCs in response to problems that are detected by the system.
For specific information on locating your vehicle’s OBD monitor, please consult your vehicle owner’s manual.

Non-continuous monitors -- Unlike the continuous monitors, many conditions are not required for the vehicle to be monitored for misfire, and monitoring these conditions

OBD II monitors are stored non-continuous monitors and are listed below:

1) For System

2) Fuel System

3) Comprehensive Components (CCM)

4) OBD II Monitors

2.5 OBD II Monitor Readiness Status

8) V/C system
7) Headlight Flasher
6) Secondary Air
5) O2 Sensor Heater
4) Evaporative System
3) Catalytic
2) O2 Sensors
vehicle operation parameters to help in identifying the problem. This OBD II system not only logs a code but also records a snapshot of the "Freeze Frame Data" - When an emissions related fault occurs, the system will freeze the engine control computer's memory of the exact conditions that existed at the time of the code recording. This helps to diagnose the problem more accurately.

2.6 OBD II Definitions

**Ez**

- **Ez**

**Drive Cycle** -- A specific mode of vehicle operation that occurs in any particular vehicle on the road. The cycle may involve driving habits and for some vehicles, it may involve specific driving patterns that are part of the driving cycle. The cycle is used to help identify specific patterns of driving that may cause emissions problems. Some vehicles may have a specific schedule of driving cycles that they follow during the cycle to help identify specific patterns of driving that may cause emissions problems.

**Enable Conditions** -- Also referred to as enabling conditions. These are the conditions under which the emission control system is enabled and will control the emissions produced by the vehicle.

**DI** -- Diagnostic Trouble Codes (DTCs) that identify which section of the emission control system is malfunctioning.

- **DI**

**L**

- **L**

**Malfunction Indicator Light (MIL) -- Malfunction Indicator Light**

- **MIL**

**Powertrain Control Module (PCM) -- OBD II**

- **PCM**

**Dash**

- **Dash**
3.4 Navigation Characters

1) CURSOR CASE - A nyon case to store the scan tool when not in use
2) USB Cable - Used to upgrade the scan tool between tool and vehicle
3) OBD2 Cable - Provides Power to tool and communicates
4) CD - Includes users manual, DTC LookUp Library and etc.
5) LCD Display - Indicating Tool Results, Backlit 1.28 x 64 pixel

3.3 Accessories Included

1) Manual
2) DTC LookUp Screen when being pressed and held for at least 3
3) N Button - Cancels a selection (or action) from a menu or
4) Y Button - Presses the tool to the menu for additional data. It is also used to
5) LCD Display - Indicates tool results. Backlit 1.28 x 64 pixel
6) TOOL DESCRIPTION
7) USING THE SCAN TOOL
8) TOOL DETECTION
3.7 Code Lookup

From the Main Menu, use the UP/DOWN scroll buttons to
search in the Scan Tool.

The Code Lookup function is used to search for definitions of DTCs.

1) From the Main Menu, use the "Scan Tool" button to select the Scan Tool.
2) Connect the OBD-II cable to the scan tool.
3) Press OBD-II cable to the vehicle's OBD-II.
   - Press the ready light button before positioning the OBD-II cable.
   - A plastic DTC cover may be found for some vehicles and you
     need to remove it before positioning the OBD-II cable.

3.6 Vehicle Power

No socket in the vehicle is used. However, a weak electrical connection
in the system may cause a reading of no socket.

3.5 Keyboard

Not supported. Use the control module number from which the data
is retrieved.

4) "No" - displays no additional information is available.
5) "XX" - displays no additional information is available.
6) "Pn" - displays no additional information is available.
7) "S" - displays no additional information is available.
8) "N" - displays no additional information is available.
9) "R" - displays no additional information is available.
10) "Pn" - displays no additional information is available.
11) "F" - displays no additional information is available.
12) "Dn" - displays no additional information is available.
Press the \textbf{N} button to return to \textbf{Main Menu}.

1. From the \textbf{System Setup} menu, press the \textbf{X} button. Follow the instructions to select the display settings you wish to adjust.

2. The \textbf{Contrast Adjustment} option allows you to make the following adjustments:
   - \textbf{Contrast (27\%)}

3. Press the \textbf{Y} button to save your selection and return to previous menus.

4. From the \textbf{Main Menu} use the \textbf{UP/DOWN} scroll buttons to select the desired option.

5. To enter the setup menu mode, press and hold the \textbf{X} button for at least 3 seconds.

The settings of the display will remain until changed by the \textbf{Contrast Adjustment} function.
The solid block characters.

3) Press the Y button again to start test, look for missing spots in

Y button. Select Display Test from the Tool Self-Test menu and press the

Display Test. To select Tool Self-Test, and press the Y button.

AV Display Test. Tool Self-Test checks the display and keyboard.

Press the Y button to return to System Setup menu.

Press the Y button to save your selection and return to previous

buttons to select the desired unit of measurement.

From the Unit of Measurement menu, use the UP/DOWN scroll

buttons to select your measurement unit.

English is the default measurement unit.
Vehicle Linking Error

3.10 Product Troubleshooting

Complainant

Contact information label must state that the vehicle is OBD II compliant. For your vehicle to be OBD II compliant it must have a 16-pin DLC.

Data link connection (DLC)

Contact OBD II compliant vehicles under the dash and the vehicle emission control information label. The vehicle is OBD II compliant if the label indicates that the vehicle is OBD II compliant. Include all OBD II compliant vehicles.

OBD II compliant vehicles do not have a "commercial vehicle" label. Under the hood of the vehicle is the Vehicle Emission Control Information (VECI) label. The Vehicle Emission Control Information (VECI) label shows the vehicle's VIN and the year of manufacture. The OBD II compliant vehicles under the dash and the vehicle emission control information label must state that the vehicle is OBD II compliant.

American and European vehicles have a small number of 1994 and 1995 model year vehicles. Neither American Domestic, Asian and European vehicles.

Vehicle Coverage

3.9 Vehicle Coverage

Double press [N] to return to the menu.

Double [N] to return:

- Display name.
- Start test.
- Press any key to stop.

Keyboard Test

When the key is not functioning properly:

Press any key to start test. When you press the key the key name should be displayed on the display. If the name does not show up:

Keyboard Test

When completed, press N to return to the menu.
1) Turn the ignition off.

2) Locate the vehicle’s 16-pin Data Link Connector (DLC).

3) Plug in the scan tool cable connector to the vehicle’s DLC.

4) Turn the ignition on. Pressing the scan tool’s UP/DOWN button will enter the Main menu. Use the UP/DOWN buttons to select Diagnostics from the menu.

5) Press the X button to enter the Main menu. The scan tool’s UP/DOWN button will enter the Main menu. The scan tool’s UP/DOWN button is used to navigate through the menu.

6) Scan Tool does not power up

- Check vehicle battery to make sure it is still good with at least 8.0 Volts.
- Necessary.
- Check if the DLC pins are bent or broken. Clean the DLC pins if the vehicle’s DLC is not connected to the scan tool’s OBD II connector. Connect the scan tool’s OBD II connector to the vehicle’s DLC. If the scan tool will not power up, operations incorrectly in any other way, you need to do the following to check if:
  - Turn the ignition on and continue the diagnosis.
  - Press and hold the X and Y buttons simultaneously for at least 3 seconds to reset the scan tool.
  - Do the following to reset the tool:
    - Ignition back on and continue the diagnosis.
  - Turn the ignition off and wait for about 10 seconds. Turn the
    ignition back on and proceed to step 1. When the vehicle's control module is detected by the scan tool, you will be prompted to enter the menu.

7) Powertrain Control Module (PCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) may be in trouble. The most frequent error codes are the

- 4. OBD II Diagnostics

Caution: Don't connect or disconnect any test equipment with ignition on or engine running.

4.1 Reading Codes

- Engine Powertrain Control Module (PCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) and Transmission Control Module (TCM) may be in trouble. The most frequent error codes are the

- 4. OBD II Diagnostics
1) Press the "UP/DOWN" scroll buttons to select "Read Codes" or "Read Information".

2) Press the "UP/DOWN" scroll buttons to select "Read Codes" from the menu and press the X button.

3) Use the "UP/DOWN" scroll buttons to select "Trouble Codes Menu" and press the X button.

4) Use the "UP/DOWN" scroll buttons to select "Scroll Through Codes" and press the X button.

5) View the DTCs and their definitions on screen.

6) After the recall of the DTC menu, press any key for the Diagnostic Trouble Codes menu.

7) If the "LINKING ERROR" message does not go away, then perform the procedure from step 3.

8) Turn the ignition off and wait for about 10 seconds. Turn the ignition back on and repeat the procedure from step 2.

9) Turn the ignition off and wait for about 10 seconds. Turn the ignition back on and repeat the procedure from step 2.

10) If there are no Diagnostic Trouble Codes present, the display will indicate "No Codes Are Stored in the Module."
1. A warning message comes up asking for your confirmation.

2. Press the Y button to select the Diagnostic Menu and then press the Y button to confirm.

3. This function is performed with key on engine off (KOEO). Do not perform the procedure if the system has been checked completely by a technician.

4. Press the Y button to select Fault Codes and then press the Y button to confirm.

5. If more than one code is found, use the UP/DOWN scroll buttons as necessary to view any additional information.

6. When a DTC's definition covers more than one section use the Y button to select the correct section on the upper right hand corner of the display.

7. The control module number, sequence of the DTCs' codes, and type of codes (Generic or Manufacturer specific) will be displayed on the upper right hand corner of the display.
Press any button to return to the Diagnostic Menu.

4) If the codes are cleared successfully, an "Erase Done" confirmation message will show on the display. Press any button to return to the Diagnostic Menu.

5) To view data on the vehicle's modules, press the Y button to select YES. Press the A button to proceed to view the codes. If you do not wish to view the codes, then use the UP/DOWN scroll button to select "Cancel Me". Press the Y button to exit. A message of "Command Cancelled" will show. If you do not want to proceed with erasing the codes, press the A button.
Diagnostic Menu:

5) Use the N button to return to View Data menu and press the-

4) Press the N button to view selected PID on screen.

3) Unit of Measure

2) Custom Data Set

1) Entire Data Set

View Data

System Setup

Live Data

Custom Data Set

View Data

(%) SHRTST1
(%) ETC.F.
(%) LOAD.PCT.
N/A FUEL SYS2
OIL.DRIVE
DTC CNT

To return to View Data menu, press the N button.

To view custom data set, use the UP/DOWN scroll buttons to-

Select Custom Data Set from the View Data menu and press the-

An up arrow indicates that there are more data available-

on the next screen.

A down arrow indicates that there are more data available-

for more PIDs from UP/DOWN arrow at the upper right hand-

corner of the screen indicates that more than one page of data is-

Life View PIDS on the screen. Use the UP/DOWN scroll buttons-

Selected parameters are marked with solid squares.
1) Use the UP/DOWN scroll button to select I/M Readiness from the Diagnostic Menu.
   - The monitor is not supported on this vehicle.
   - The monitor is being checked.
   - The monitor is completing its diagnostic testing.
   - The monitor is in diagnostic testing.
   - The monitor is Ok.

2) The diagnostic menu will appear. Use the UP/DOWN scroll button as necessary until all the data have been shown.

3) If the retrieved information covers more than one section, then...

4) Press the X button to return to the Diagnostic Menu.

5) Press the Y button to select Freeze Frame Data from the Diagnostic Menu.

6) To view Freeze Frame Data, use the UP/DOWN scroll buttons to select Freeze Frame Data available, an advisory message appears.
Screen of the following will be displayed:

1) If the vehicle supports readiness test of "This Drive Cycle", a

Since DTC's Cleared

A/C Rèle Mon - A/C System Monitor
HID Calsizer - Headlight Calsizer Monitor
Sec. System - Secondary Air Monitor
Oxigen Sens. Mon - O2 Sensor Heater Monitor
EVA System Mon - Evaporative System Monitor
Calalsizer Mon - Calsizer Monitor
Oxigen Sens Mon - O2 Sensor Monitor
ECR - EGR System Monitor
Comp. Componen Mon - Componen Monitor
Fuel System Mon - Fuel System Monitor
Misfuel Monitor - Misfuel Monitor

Use the UP/DOWN scroll buttons, as necessary, to view the

(1) Read codes
(2) Erase codes
(3) Display Menu
(4) O2 Monitor Test
(5) Misfuel Readness
(6) View Freeze Frame
(7) Datalens
(8) View Readness
1) Use the UP/DOWN scroll buttons to select "O2 Monitor Test" from the vehicle's on-board computer.

2) View a few seconds while the Scan Tool validates the PID map.

3) Use the UP/DOWN scroll buttons to select the O2 Sensor from the O2 Monitor Test menu and press the Y button.

4) View test results of selected O2 sensor.

5) Use the UP/DOWN scroll buttons to view more screens of data if necessary.

4.6 O2 Monitor Test

Press the N button to return to the Diagnostic Menu.
2. View the test data on screen.

ON-BOARD MON. Test menu and press the Y button.

1. Use the UP/DOWN scroll buttons to select desired monitor from

For CAN-equipped vehicles, the test selections can be as below:

ON-BOARD MON. Test

ON-BOARD MON. Test menu, use the UP/DOWN scroll buttons to select the test to view and press the Y button.

3. From the ON-BOARD MON. Test menu, use the UP/DOWN scroll

ON-BOARD MON. Test

ON-BOARD MON. Test

Test 501 Data

On-Board MON. Test

Test 502 Data

On-Board MON. Test

Reading PID 01

- Please Wait.

On-Board MON. Test

Test 503 Data

On-Board MON. Test

Test 504 Data

11) Unit of Measure
10) Modules Present
09) Vehicle Info.
08) Component Test
07) On-Board MON. Test

Test 505 Data

On-Board MON. Test

Test 506 Data

On-Board MON. Test

Diagnostic Menu

4.7) On-Board MON. Test

Press the N button to return to the previous menu.
Press any key to continue.

Component Test

If the test has been initiated by the vehicle, a confirmation message will be displayed on the screen.

4) From the Component Test Menu, use the UP/DOWN scroll buttons to select the test to be initiated.

3) Press the Next button to return to the previous menu.

For CAN-equipped vehicles, the test results displayed can be as follows:

<table>
<thead>
<tr>
<th>PID</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 450</td>
<td>MEAS</td>
</tr>
<tr>
<td>0 312</td>
<td>MIN</td>
</tr>
<tr>
<td>0 630</td>
<td>MAX</td>
</tr>
<tr>
<td>OK</td>
<td>STA1</td>
</tr>
</tbody>
</table>
4. View the vehicle information retrieved.

4.9 Viewing Vehicle Information

1. Use the UP/DOWN scroll buttons to select Vehicle Info. From the Diagnostic Menu and press the Y button.

2. Wait a few seconds while the scan tool validates the PID MAP.

If the vehicle does not support this mode, a message will show on the screen.

The Vehicle Information function enables the retrieval of the

Diagnostic Menu

11) Unit Measures
10) Module Presets
 9) Vehicle Info
 8) Component Test
 7) On-board Mon Test

Press any key to con.

Not supported
The selected mode is Component Test.

Some vehicles do not allow scan tools to control vehicle systems.
<table>
<thead>
<tr>
<th>PID Name</th>
<th>Full Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR (%)</td>
<td>AIR STAN</td>
</tr>
<tr>
<td>Mass Air Flow Sensor</td>
<td>MAV (m/min)</td>
</tr>
<tr>
<td>Mass Air Flow Sensor</td>
<td>MAV (g/s)</td>
</tr>
<tr>
<td>Intake Air Temperature</td>
<td>IAT(T)</td>
</tr>
<tr>
<td>Intake Air Temperature</td>
<td>IAT(C)</td>
</tr>
<tr>
<td>Exhaust Time Average</td>
<td>SPXAD(AAV)</td>
</tr>
<tr>
<td>Vehicle Speed Sensor</td>
<td>VSS (mph)</td>
</tr>
<tr>
<td>Vehicle Speed Sensor</td>
<td>VSS (kmp)</td>
</tr>
<tr>
<td>Engine RPM</td>
<td>RPM (rpm)</td>
</tr>
<tr>
<td>Intake Manifold Absolute Pressure</td>
<td>MAP (kPa)</td>
</tr>
<tr>
<td>Intake Manifold Absolute Pressure</td>
<td>MAP (Pa)</td>
</tr>
<tr>
<td>Fuel Rail Pressure (gauge)</td>
<td>PRP (gauge)</td>
</tr>
<tr>
<td>Fuel Rail Pressure (gage)</td>
<td>PRP (gauge)</td>
</tr>
<tr>
<td>Long Term Fuel-Truncation</td>
<td>LONFST1 (L)</td>
</tr>
<tr>
<td>Long Term Fuel-Truncation</td>
<td>LONFST2 (L)</td>
</tr>
<tr>
<td>Short Term Fuel-Truncation</td>
<td>SHTFST1 (L)</td>
</tr>
<tr>
<td>Short Term Fuel-Truncation</td>
<td>SHTFST2 (L)</td>
</tr>
<tr>
<td>Short Term Fuel-Truncation</td>
<td>SHTFST3 (g)</td>
</tr>
<tr>
<td>Long Term Fuel-Burnt</td>
<td>LONFUEL1</td>
</tr>
<tr>
<td>Long Term Fuel-Burnt</td>
<td>LONFUEL2</td>
</tr>
<tr>
<td>Long Term Fuel-Burnt</td>
<td>LONFUEL3</td>
</tr>
<tr>
<td>Short Term Fuel-Burnt</td>
<td>SHTFUEL1</td>
</tr>
<tr>
<td>Short Term Fuel-Burnt</td>
<td>SHTFUEL2</td>
</tr>
<tr>
<td>Engine Coolant Temperature</td>
<td>ECT (F)</td>
</tr>
<tr>
<td>Engine Coolant Temperature</td>
<td>ECT (F)</td>
</tr>
</tbody>
</table>
| Coolant Load Value | CLOD (%)
| Fuel System 7 Stains | FUELST7 |
| Fuel System 6 Stains | FUELST6 |
| Fuel System 5 Stains | FUELST5 |
| DTC CT1 | DTC CT2 |
| DTC CT3 | DTC CT4 |
| DTC CT5 | DTC CT6 |
| DTC CT7 | DTC CT8 |

1. Use the UP/DOWN scroll buttons to select Modules Present.
2. View the modules present with their IDs and communication protocols.

ISO 9141.2

The Module Present function allows the viewing of the module IDs and communication protocols for OBD-II modules in the vehicle.
<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient Temperature</td>
<td></td>
</tr>
<tr>
<td>Ambient Humidity</td>
<td></td>
</tr>
<tr>
<td>Relative Humidity</td>
<td></td>
</tr>
<tr>
<td>Commanded Equilibrium Ratio</td>
<td></td>
</tr>
<tr>
<td>Absolute Humidity</td>
<td></td>
</tr>
<tr>
<td>Control Valve</td>
<td></td>
</tr>
<tr>
<td>Chamber 1 Temperature</td>
<td></td>
</tr>
<tr>
<td>Chamber 2 Temperature</td>
<td></td>
</tr>
<tr>
<td>Chamber 3 Temperature</td>
<td></td>
</tr>
<tr>
<td>Chamber 4 Temperature</td>
<td></td>
</tr>
<tr>
<td>Barometric Pressure</td>
<td></td>
</tr>
<tr>
<td>Barometric Pressure (mb)</td>
<td></td>
</tr>
<tr>
<td>Barometric Pressure (hPa)</td>
<td></td>
</tr>
<tr>
<td>Barometric Pressure (mmHg)</td>
<td></td>
</tr>
<tr>
<td>Barometric Pressure (kPa)</td>
<td></td>
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### Table 5.2 Appendix 2—In-Use Performance Tracking Data

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<th>APP A (%)</th>
<th>APP B (%)</th>
<th>APP C (%)</th>
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<th>Absolute Throttle Position C</th>
<th>Absolute Throttle Position D</th>
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6.2 Service Procedures

Changes at any time without notice.

Electronic Consumer's Guide to the Right to Make

Available at the time of publication and no warranty can be made

Further notice, this manual is based on the latest information

With date, the above information may apply to you.

Some states do not allow limitations on how long an implied

Warranty lasts, so the above limitations may not apply to you.

(1) HSHK shall not be liable for any incidental or consequential

By anyone other than the Manufacturer's Service Center

(2) This warranty does not apply to damages caused by improper use,

(3) The sole responsibility of HSHK under the Warranty is limited to

(4) All information in this manual is based on the latest information

(5) The sole responsibility of HSHK under the Warranty is limited to

(6) Limited One Year Warranty

6. Warranty and Service

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