



TECHNICAL BULLETIN EL - 20

DATE: APRIL 10, 2002
MODEL YEAR: 2000.5
CHASSIS MODEL: UD1800HD ~ UD3300
ENGINE MODEL: FE6TA 24 VALVE
BULLETIN #: EL - 20
 FILE IN THE ELECTRICAL SECTION OF THE TECHNICAL BULLETIN BINDER

MD-TICS DIAGNOSIS FOR 2000.5 MODEL YEAR MEDIUM DUTY VEHICLES

PURPOSE

To notify UD Dealer service managers and UD Truck technicians of the diagnostic procedures and methods that are used for the MD-TICS system in **2000.5** model year medium duty vehicles.

2000.5 model year medium duty vehicles were produced with unique component part numbers when compared with previous 2000 model year components and later 2001 year model components.

AFFECTED VEHICLES		
VEHICLE MODEL	VIN RANGE	PRODUCTION DATE RANGE
UD1800HD	JNAMA33H6YAE55366 ~ JNAMA33HXYAN55614	OCT. 1999 ~ MAR. 2000
UD2000	JNAMB43H8YAH55462 ~ JNAMB33H5YAN55629	OCT. 1999 ~ MAR. 2000
UD2300	JNALC43H8YAH55261 ~ JNALC33H1YAN55409	OCT. 1999 ~ MAR. 2000
UD2600	JNAPA33H1YAE55370 ~ JNAPA33H3YAS55619	OCT. 1999 ~ MAR. 2000
UD3300	JNAPC33L6YAR55133 ~ JNAPC33L1YAR55136	OCT. 1999 ~ MAR. 2000

PARTS NOTICE

MD-TICS COMPONENT COMPARISON			
COMPONENT	2000 MODEL YEAR	2000.5 MODEL YEAR	2001 MODEL YEAR
MAIN CAB HARNESS	NO DLC CONNECTOR FOR UD SCAN TOOL	DLC CONNECTOR FOR UD SCAN TOOL (NON-FUNCTIONAL)	DLC CONNECTOR FOR UD SCAN TOOL (FUNCTIONAL)
ENGINE CONTROL UNIT	25947-Z5573 (12 PIN, 18 PIN)	25947-Z5578 25947-Z5579 (22 PIN, 26 PIN)	25947-Z5668 (22 PIN, 26 PIN)
DIAGNOSTIC SWITCH	2-WIRE BULLET RED/GREEN AND YELLOW/BLACK	1-WIRE BULLET YELLOW	1-WIRE BULLET YELLOW
MEMORY RESET	2-WIRE PLUG YELLOW/BLACK AND BLACK	2-WIRE PLUG YELLOW/BLACK AND BLACK	1-WIRE BULLET YELLOW/BLACK

SERVICE NOTICE

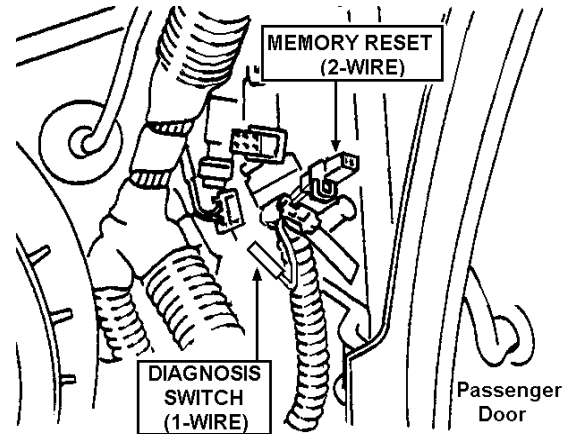
2000.5 model year medium duty vehicles are equipped with unique MD-TICS component part numbers as described on page one of this bulletin. When troubleshooting the MD-TICS system in 2000.5 model year medium duty vehicles use the procedures and methods described in this bulletin.

The UD Truck Scan Tool, Kent•Moore tool number J-44550, *will not* function in 2000.5 model year medium duty vehicles although a Diagnostic Link Connector (DLC) is included in the unique main cab harness. Fault codes in the MD-TICS system will need to be retrieved manually using the vehicle's Diagnostic Switch.

Retrieving Codes

To retrieve fault codes, ground the end of the single wire Diagnostic Switch with the key switch OFF.

Next, turn the key switch ON and note the flashing light codes in the Engine Control Warning light and the Engine Overheat Warning light.

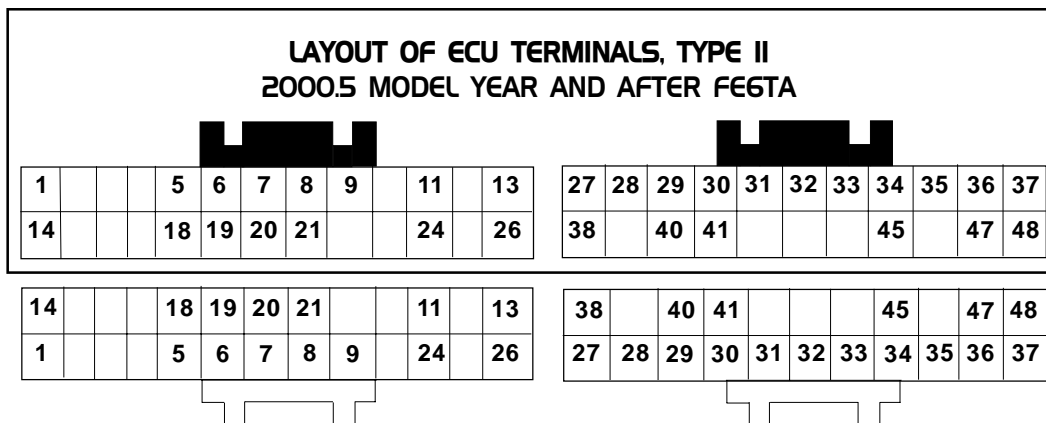


Erasing Memory Codes

To erase memory codes after the fault has been located and corrected:

- leave the Diagnostic Switch grounded and the key switch ON
- use a jumper wire to connect across the two electrical terminals of the Memory Reset Switch
- wait a minute or less until the Memory Lamp (Engine Overheat Warning light) and buzzer begins to flash and to buzz a single blink (0-1: No Fault Code)

Engine Control Unit (ECU) Pin Layout



Fault Codes

2000.5 MODEL YEAR MEDIUM DUTY MD-TICS FAULT CODES	
FAULT CODE	AFFECTED MD-TICS SEGMENT
0 - 1	NO FAULT (ENGINE RUNNING)
0 - 1	NO FAULT (ENGINE NOT RUNNING)
1 - 5	ENGINE SPEED SENSOR (OPEN CIRCUIT)
1 - 6	ENGINE SPEED SENSOR (SHORT CIRCUIT)
1 - 3	RACK SENSOR (EITHER OPEN OR SHORT CIRCUIT)
2 - 1	WATER TEMPERATURE SENSOR (EITHER OPEN OR SHORT CIRCUIT)
2 - 3	PRE-STROKE SENSOR (EITHER OPEN OR SHORT CIRCUIT)
1 - 2	PRE-STROKE ACTUATOR (EITHER OPEN OR SHORT CIRCUIT)
2 - 4	PRE-STROKE LEARNING FUNCTION
2 - 2	PRE-STROKE POWER SUPPLY
LAMP ON	ELECTRONIC CONTROL UNIT POWER SUPPLY

THE INFORMATION CONTAINED IN THIS BULLETIN SHOULD NOT BE CONSIDERED THE BASIS FOR WARRANTY CLAIMS					
FOR THE INDICATED PERSONNEL BELOW, PLEASE READ, INITIAL, AND ROUTE TO THE FOLLOWING:					
X	SERVICE MANAGER	X	WARRANTY MANAGER	X SERVICE TECHNICIANS INITIAL BELOW:	
X	PARTS MANAGER	X	SHOP FOREMAN		