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1991 FORD Scorpio Sedan OEM Service and Repair Workshop Manual

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SOBDMC (secondary on- board diagnostic control module C)	C1013:00	Brake System Pressure: No Sub Type Information	GO to Pinpoint Test BS
SOBDMC (secondary on- board diagnostic control module C)	C101F:00	Generic Valve Failure: No Sub Type Information	GO to Pinpoint Test BS
SOBDMC (secondary on- board diagnostic control module C)	C113A:62	Wakeup Control: Signal Compare Failure	GO to Pinpoint Test A
SOBDMC (secondary on- board diagnostic control module C)	P0560:00	System Voltage: No Sub Type Information	GO to Pinpoint Test BV
SOBDMC (secondary on- board diagnostic control module C)	P0562:00	System Voltage Low: No Sub Type Information	GO to Pinpoint Test BV
SOBDMC (secondary on- board diagnostic control module C)	P0563:00	System Voltage High: No Sub Type Information	GO to Pinpoint Test C
SOBDMC (secondary on- board diagnostic control module C)	P0600:49	Serial Communication Link: Internal Electronic Failure	GO to Pinpoint Test D
SOBDMC (secondary on- board diagnostic control module C)	P0600:88	Serial Communication Link: Bus Off	GO to Pinpoint Test D
SOBDMC (secondary on- board diagnostic control module C)	P0607:00	Control Module Performance: No Sub Type Information	GO to Pinpoint Test E
SOBDMC (secondary on- board diagnostic control module C)	P060A:44	Internal Control Module Monitoring Processor Performance: Data Memory Failure	GO to Pinpoint Test F

P0613:86	TCM Processor: Signal Invalid	GO to Pinpoint Test J
P061A:92	Internal Control Module Torque Performance: Performance or Incorrect Operation	GO to Pinpoint Test BW
P061A:93	Internal Control Module Torque Performance: No Operation	GO to Pinpoint Test BW
P0634:00	Control Module Internal Temperature "A" Too High: No Sub Type Information	GO to Pinpoint Test K
P064F:00	Unauthorized Software/Calibration Detected: No Sub Type Information	GO to Pinpoint Test L
P06A6:00	Sensor Reference Voltage "A" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test B
P06A7:00	Sensor Reference Voltage "B" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test B
P06A9:00	Sensor Reference Voltage "D" Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test M
P06B1:00	Sensor Power Supply "A" Circuit Low: No Sub Type Information	GO to Pinpoint Test B
P06B8:00	Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error: No Sub Type Information	GO to Pinpoint Test N
	P061A:92 P061A:93 P0634:00 P064F:00 P06A7:00 P06A9:00	P061A:92 Internal Control Module Torque Performance: Performance or Incorrect Operation P061A:93 Internal Control Module Torque Performance: No Operation Control Module Internal Temperature "A" Too High: No Sub Type Information Unauthorized Software/Calibration Detected: No Sub Type Information Control Module Internal Temperature "A" Too High: No Sub Type Information P064F:00 Unauthorized Software/Calibration Detected: No Sub Type Information Sensor Reference Voltage "A" Circuit Range/Performance: No Sub Type Information P06A7:00 Sensor Reference Voltage "B" Circuit Range/Performance: No Sub Type Information P06A9:00 Sensor Reference Voltage "D" Circuit Range/Performance: No Sub Type Information P06B1:00 Internal Control Module Non-Volatile Random Access Memory (NVRAM) Error: No Sub Type

SOBDMC (secondary on- board diagnostic control module C)	P0A3A:00	Generator Temperature Sensor Circuit Intermittent: No Sub Type Information	GO to Pinpoint Test T
SOBDMC (secondary on- board diagnostic control module C)	P0A3C:94	Drive Motor "A" Inverter Over Temperature: Unexpected Operation	GO to Pinpoint Test U
SOBDMC (secondary on- board diagnostic control module C)	P0A47:00	Drive Motor "B" Position Sensor Circuit Low: No Sub Type Information	GO to Pinpoint Test V
SOBDMC (secondary on- board diagnostic control module C)	P0A4C:00	Generator Position Sensor Circuit Range/Performance: No Sub Type Information	GO to Pinpoint Test W
SOBDMC (secondary on- board diagnostic control module C)	P0A4D:00	Generator Position Sensor Circuit Low: No Sub Type Information	GO to Pinpoint Test X
SOBDMC (secondary on- board diagnostic control module C)	P0A50:92	Generator Position Sensor Circuit Overspeed: Performance Or Incorrect Operation	GO to Pinpoint Test Y
SOBDMC (secondary on- board diagnostic control module C)	P0A6F:00	Generator Phase U Current: No Sub Type Information	GO to Pinpoint Test Z
SOBDMC (secondary on- board diagnostic control module C)	P0A71:00	Generator Phase U Current High: No Sub Type Information	GO to Pinpoint Test AA
SOBDMC (secondary on- board diagnostic control module C)	P0A72:00	Generator Phase V Current: No Sub Type Information	GO to Pinpoint Test Z
SOBDMC (secondary on- board diagnostic control module C)	P0A74:00	Generator Phase V Current High: No Sub Type Information	GO to Pinpoint Test AA

SOBDMC (secondary on- board diagnostic control module C)	P0C5A:00	Drive Motor "B" Position Sensor Circuit "A": No Sub Type Information	GO to Pinpoint Test Al
SOBDMC (secondary on- board diagnostic control module C)	P0C5C:00	Drive Motor "B" Position Sensor Circuit "A" Low: No Sub Type Information	GO to Pinpoint Test AJ
SOBDMC (secondary on- board diagnostic control module C)	P0C5D:00	Drive Motor "B" Position Sensor Circuit "A" High: No Sub Type Information	GO to Pinpoint Test AK
SOBDMC (secondary on- board diagnostic control module C)	P0C5F:00	Drive Motor "B" Position Sensor Circuit "B": No Sub Type Information	GO to Pinpoint Test AO
SOBDMC (secondary on- board diagnostic control module C)	P0C61:00	Drive Motor "B" Position Sensor Circuit "B" Low: No Sub Type Information	GO to Pinpoint Test AP
SOBDMC (secondary on- board diagnostic control module C)	P0C62:00	Drive Motor "B" Position Sensor Circuit "B" High: No Sub Type Information	GO to Pinpoint Test AQ
SOBDMC (secondary on- board diagnostic control module C)	P0C64:00	Generator Position Sensor Circuit A: No Sub Type Information	GO to Pinpoint Test V
SOBDMC (secondary on- board diagnostic control module C)	P0C65:00	Generator Position Sensor Circuit "A" Range/Performance: No Sub Type Information	GO to Pinpoint Test AH
SOBDMC (secondary on- board diagnostic control module C)	P0C66:00	Generator Position Sensor Circuit "A" Low: No Sub Type Information	GO to Pinpoint Test AL
SOBDMC (secondary on- board diagnostic control module C)	P0C67:00	Generator Position Sensor Circuit "A" High: No Sub Type Information	GO to Pinpoint Test AM

SOBDMC (secondary on- board diagnostic control module C)	P1A0E:61	Hybrid Powertrain Control Module - Motor Disabled: Signal Calculation Failure	GO to Pinpoint Test I
SOBDMC (secondary on- board diagnostic control module C)	P1A0E:62	Hybrid Powertrain Control Module - Motor Disabled: Signal Compare Failure	GO to Pinpoint Test AV
SOBDMC (secondary on- board diagnostic control module C)	P1A0E:64	Hybrid Powertrain Control Module - Motor Disabled: Signal Plausibility Failure	GO to Pinpoint Test AV
SOBDMC (secondary on- board diagnostic control module C)	P1A0E:96	Hybrid Powertrain Control Module - Motor Disabled: Component Internal Failure	GO to Pinpoint Test AV
SOBDMC (secondary on- board diagnostic control module C)	P1A40:00	ABS Control Module Configuration Not Complete: No Sub Type Information	GO to Pinpoint Test BS
SOBDMC (secondary on- board diagnostic control module C)	P1A41:00	ABS Control Module Programming Error: No Sub Type Information	GO to Pinpoint Test BS
SOBDMC (secondary on- board diagnostic control module C)	P2531:00	Ignition Switch Run Position Circuit Low: No Sub Type Information	GO to Pinpoint Test BT
SOBDMC (secondary on- board diagnostic control module C)	P2533:1F	Ignition Switch On/Start Position Circuit: Circuit Intermittent	GO to Pinpoint Test BT
SOBDMC (secondary on- board diagnostic control module C)	P2533:62	Ignition Switch On/Start Position Circuit: Signal Compare Failure	GO to Pinpoint Test BA
SOBDMC (secondary on- board diagnostic control module C)	P2C94:00	Hybrid/EV Battery Contactor Control Supply Circuit Low: No Sub Type Information	GO to Pinpoint Test BU

SOBDMC (secondary on- board diagnostic control module C)	U0140:00	Lost Communication With Body Control Module: No Sub Type Information	GO to Pinpoint Test BF
SOBDMC (secondary on- board diagnostic control module C)	U0140:87	Lost Communication With Body Control Module: Missing Message	GO to Pinpoint Test BS
SOBDMC (secondary on- board diagnostic control module C)	U0143:00	Lost Communication With Body Control Module "C": No Sub Type Information	GO to Pinpoint Test BG
SOBDMC (secondary on- board diagnostic control module C)	U0151:00	Lost Communication With Restraints Control Module: No Sub Type Information	GO to Pinpoint Test BH
SOBDMC (secondary on- board diagnostic control module C)	U0151:87	Lost Communication With Restraints Control Module: Missing Message	GO to Pinpoint Test BS
SOBDMC (secondary on- board diagnostic control module C)	U0155:00	Lost Communication With Instrument Panel Cluster (IPC) Control Module: No Sub Type Information	GO to Pinpoint Test BI
SOBDMC (secondary on- board diagnostic control module C)	U0164:00	Lost Communication With HVAC Control Module: No Sub Type Information	GO to Pinpoint Test BJ
SOBDMC (secondary on- board diagnostic control module C)	U016A:00	Lost Communication With Global Positioning System Module: No Sub Type Information	GO to Pinpoint Test BY
SOBDMC (secondary on- board diagnostic control module C)	U0198:00	Lost Communication With Telematic Control Module: No Sub Type Information	GO to Pinpoint Test BZ
SOBDMC (secondary on- board diagnostic control module C)	U019B:00	Lost Communication With Battery Charger Control Module "A": No Sub Type Information	GO to Pinpoint Test CA

SOBDMC (secondary on- board diagnostic control module C)	U069E:87	Lost Communication With Coolant Heater "A": Missing Message	GO to Pinpoint Test CD
SOBDMC (secondary on- board diagnostic control module C)	U1011:86	Invalid Internal Control Module Monitoring Data Received from ECM/PCM: Signal Invalid	GO to Pinpoint Test BN
SOBDMC (secondary on- board diagnostic control module C)	U1012:86	Invalid Internal Control Module Monitoring Data Received from Anti-Lock Brake System (ABS) Control Module: Signal Invalid	GO to Pinpoint Test BO
SOBDMC (secondary on- board diagnostic control module C)	U1027:00	ABS Control Module Lost Communication With ECM/PCM "A": No Sub Type Information	GO to Pinpoint Test BS
SOBDMC (secondary on- board diagnostic control module C)	U1028:00	ABS Control Module Received Invalid Data from ECM/PCM "A": No Sub Type Information	GO to Pinpoint Test BS
SOBDMC (secondary on- board diagnostic control module C)	U2100:00	Initial Configuration Not Complete: No Sub Type Information	GO to Pinpoint Test BP
SOBDMC (secondary on- board diagnostic control module C)	U301B:00	Control Module Wake-up Circuit "A" Low: No Sub Type Information	GO to Pinpoint Test BQ
SOBDMC (secondary on- board diagnostic control module C)	U351B:00	High Voltage System Interlock Circuit "D" Low: No Sub Type Information	GO to Pinpoint Test BR

Pinpoint Tests

PINPOINT TEST A: C113A

NOTE

The Inverter System Controller (ISC) is referred to as the SOBDMC (Secondary On-Board Diagnostic Control Module C) in the scan tool.

REFER to: Body Control Module (BCM)

(419-10 Multifunction Electronic Modules, Removal and Installation).

A2 CHECK THE BCM (BODY CONTROL MODULE) DIAGNOSTIC TROUBLE CODES (DTCS)

NOTE

After a BCM self-test, DTC C113A:62 will set in the Inverter System Controller (ISC).

NOTE

DTC C113A-11 which sets in the BCM is different from DTC C113A-62 which sets in the Inverter System Controller (ISC).

- Ignition ON.
- Using a diagnostic scan tool, clear all diagnostic trouble codes (DTCs) from all modules.
- Using a diagnostic scan tool, carry out the BCM (body control module) self-test.

Was DTC (diagnostic trouble code) C113A:11 set in the BCM (body control module)?



No

The As-Built data was successfully programmed during PMI (programmable module installation).

A3 CHECK THE PCM (POWERTRAIN CONTROL MODULE) FOR A SHORT TO GROUND

- Ignition OFF.
- Disconnect PCM (powertrain control module) C175B.
- Ignition ON.
- Using a diagnostic scan tool, clear the BCM (body control module) diagnostic trouble codes (DTCs).
- Wait 10 seconds.
- Using a diagnostic scan tool, carry out the BCM (body control module) self-test.

Was DTC (diagnostic trouble code) C113A:11 set in the BCM (body control module)?



Are the resistances greater than 10,000 ohms?

Yes	GO to	A6

No	REPAIR the circuit.

A6 CHECK THE WAKE-UP SIGNAL CIRCUITS FOR A SHORT TO VOLTAGE

- Ignition ON.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
C175B-73	₩	Ground
C1458A-K1	Ÿ	Ground

Is any voltage present?

Yes GO to A7

No REPAIR the circuit.

A7 CHECK THE WAKE-UP SIGNAL CIRCUITS FOR AN OPEN

- Ignition OFF.
- Measure:

Positive Lead	Measurement / Action	Negative Lead
rositive Lead	Measurement / Action	Negative Leau