

Reconnect the IPC connector. Make sure it seats and latches correctly.

Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern, INSTALL a new IPC. REFER to: Instrument Panel Cluster (IPC) .
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

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Normal Operation and Fault Conditions

IPC DTC Fault Trigger Conditions

DTC	Description	Fault Trigger Conditions
U0420:82	Invalid Data Received From Power Steering Control Module: Alive/Sequence Counter Incorrect/Not Updated	Sets in continuous memory in the IPC if EPAS data received from the PSCM through the GWM is missing for 5 seconds or longer.

Possible Sources

- Communication concern
- Battery voltage concern
- PSCM
- IPC

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BZ1 VERIFY THE CUSTOMER CONCERN

Ignition ON.

Verify there is an observable symptom present.

Is an observable symptom present?

Yes	GO to BZ2
No	Clear the DTC. The system is operating normally at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

BZ2 CHECK THE COMMUNICATION NETWORK

Using a diagnostic scan tool, perform the network test.

Does the PSCM pass the network test?

Yes	GO to BZ3
No	REFER to: MODULE COMMUNICATIONS NETWORK .

BZ3 PERFORM THE PSCM (POWER STEERING CONTROL MODULE) SELF-TEST

Using a diagnostic scan tool, perform the PSCM self-test.

Are any Diagnostic Trouble Codes (DTCs) recorded?

Yes	REFER to: POWER STEERING .
No	GO to BZ4

BZ4 PERFORM THE IPC (INSTRUMENT PANEL CLUSTER) SELF-TEST

Using a diagnostic scan tool, perform the IPC self-test.

Is DTC U3003:16 or DTC U3003:17 recorded?

Yes	REFER to DTC Chart: IPC .
No	GO to BZ5



NOTE: If new modules were installed prior to the DTC being set, the module configuration may be incorrectly set during the Programmable Module Installation (PMI), or the Programmable Module Installation (PMI) may not have been carried out.

BZ5 RECHECK THE IPC (INSTRUMENT PANEL CLUSTER) DIAGNOSTIC TROUBLE CODES (DTCs)

Using a diagnostic scan tool, clear the Diagnostic Trouble Codes (DTCs).

Wait 10 seconds.

Repeat the IPC self-test.

Is DTC U0420:82 still present?

Yes	GO to BZ6
No	The system is operating correctly at this time. The DTC may have been set due to high network traffic or an intermittent fault condition.

BZ6 CHECK FOR CORRECT PSCM (POWER STEERING CONTROL MODULE) OPERATION

Ignition OFF.

Disconnect and inspect all PSCM connectors.

Repair:

corrosion (install new connector or terminals - clean module pins)

damaged or bent pins - install new terminals/pins

pushed-out pins - install new pins as necessary

Reconnect all the PSCM connectors. Make sure they seat and latch correctly.

Operate the system and determine if the concern is still present.

Is the concern still present?

Yes	CHECK OASIS for any applicable Technical Service Bulletins (TSBs). If a TSB exists for this concern, DISCONTINUE this test and FOLLOW TSB instructions. If no Technical Service Bulletins (TSBs) address this concern, refer to the EPAS symptom chart. CLEAR the Diagnostic Trouble Codes (DTCs). REPEAT the IPC self-test. If DTC U0424:82 returns, GO to BZ7
No	The system is operating correctly at this time. The concern may have been caused by module connections. ADDRESS the root cause of any connector or pin issues.

BZ7 CHECK FOR CORRECT IPC (INSTRUMENT PANEL CLUSTER) OPERATION

Ignition OFF.

Disconnect and inspect IPC connector.

Repair:

corrosion (install new connector or terminals - clean module pins)

damaged or bent pins - install new terminals/pins

pushed-out pins - install new pins as necessary