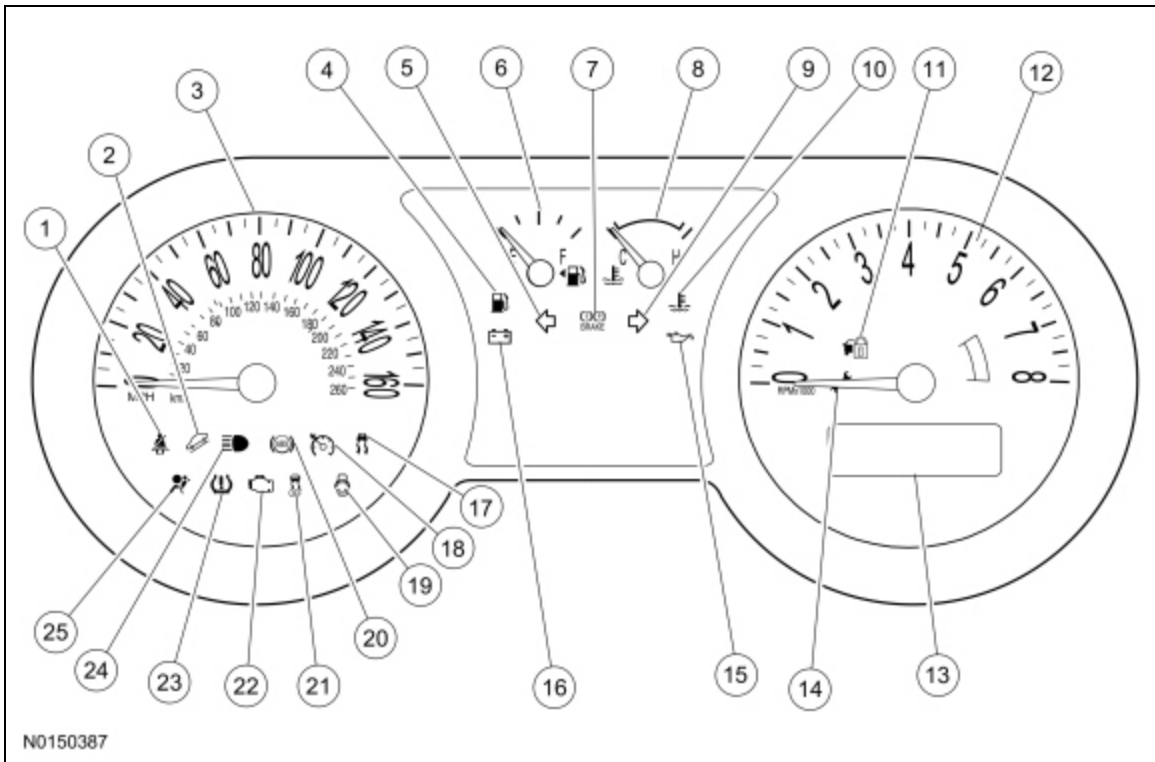


## Instrument Panel Cluster (IPC)

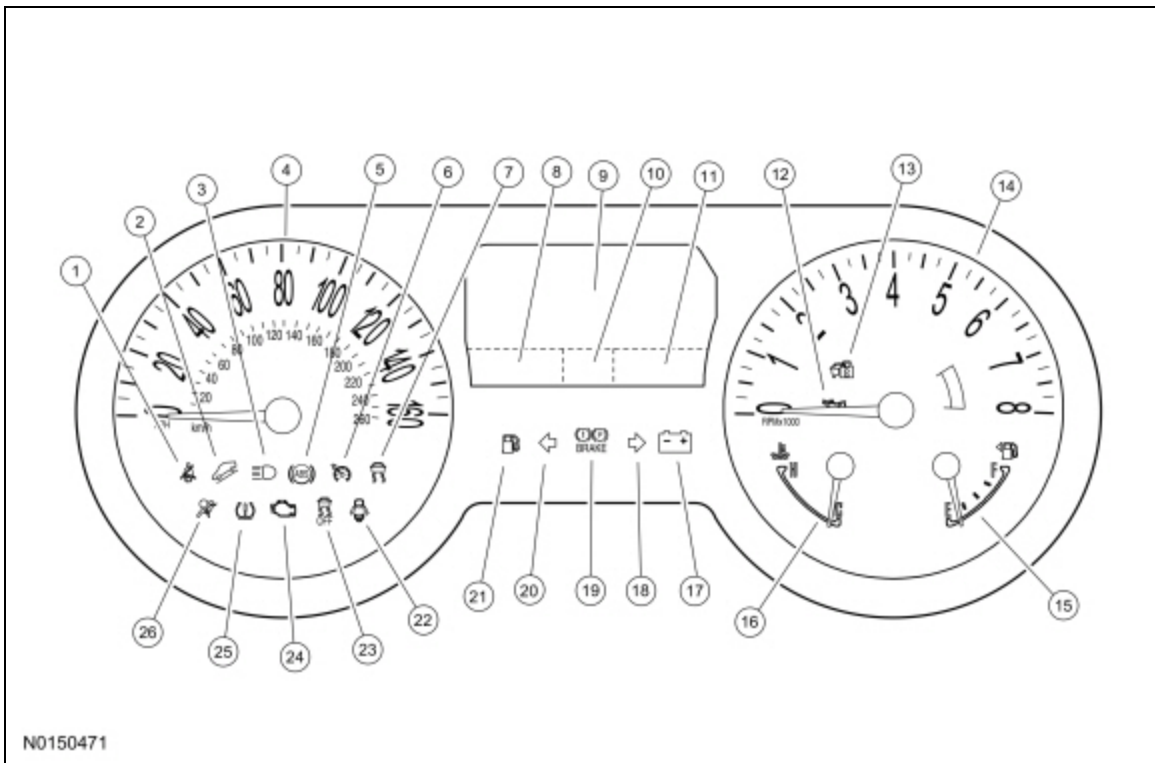
## Base Instrument Panel Cluster (IPC)



Item	Part Number	Description
1	—	Safety belt warning indicator
2	—	Grade assist indicator
3	—	Speedometer
4	—	Low fuel warning indicator
5	—	LH turn indicator
6	—	Fuel gauge
7	—	Brake warning indicator
8	—	Engine temperature gauge
9	—	RH turn indicator
10	—	Engine over temperature warning indicator
11	—	Anti-theft indicator
12	—	Tachometer
13	—	Message center display area
14	—	Powertrain malfunction (wrench) indicator
15	—	Low oil pressure warning indicator
16	—	Charging system warning indicator
17	—	Stability/traction control indicator (sliding car icon)
18	—	Cruise control indicator
19	—	Door ajar warning indicator
20	—	ABS warning indicator

21	—	Stability/traction control disabled indicator (sliding car OFF icon)
22	—	Malfunction Indicator Lamp (MIL)
23	—	Tire Pressure Monitoring System (TPMS) warning indicator
24	—	High beam indicator
25	—	Airbag warning indicator

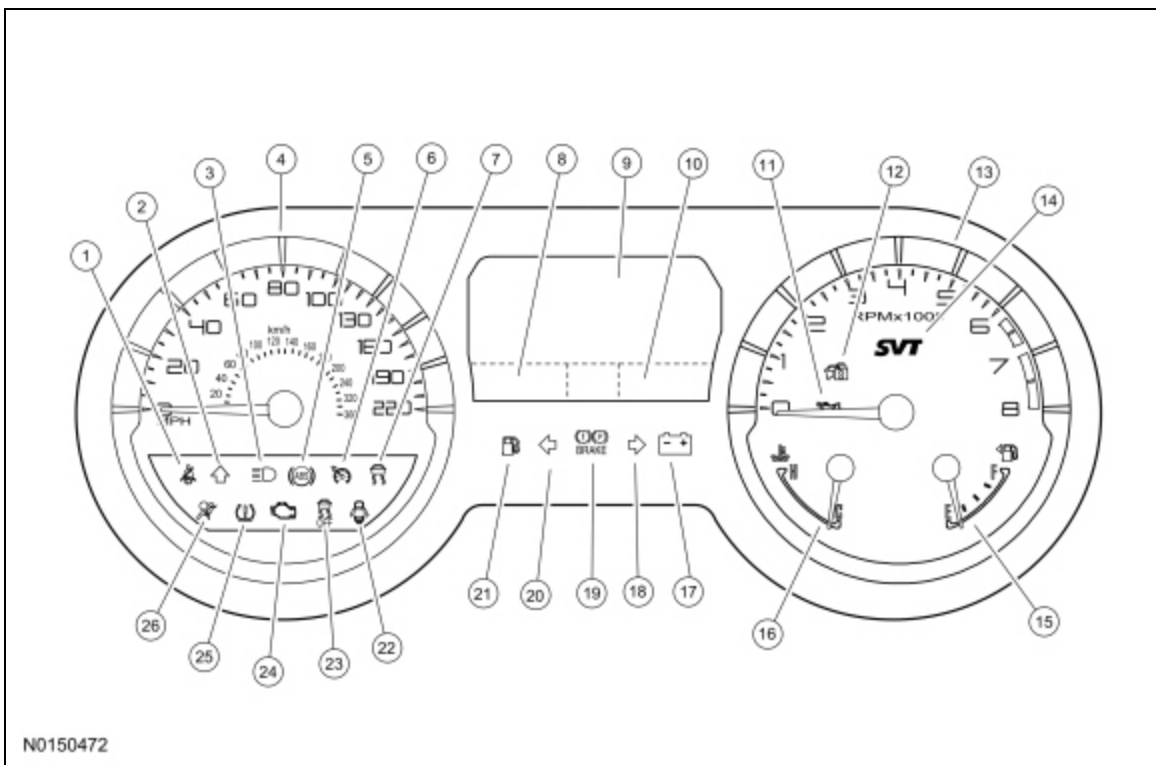
**Optional IPC**



Item	Part Number	Description
1	—	Safety belt warning indicator
2	—	Grade assist indicator
3	—	High beam indicator
4	—	Speedometer
5	—	ABS warning indicator
6	—	Cruise control indicator
7	—	Stability/traction control indicator (sliding car icon)
8	—	Odometer
9	—	Main display area/message center display
10	—	Select shift display (if equipped)
11	—	Message center indicator display area
12	—	Low oil pressure warning indicator
13	—	Anti-theft indicator
14	—	Tachometer
15	—	Fuel gauge
16	—	Engine temperature gauge
17	—	Charging system warning indicator

18	—	RH turn indicator
19	—	Brake warning indicator
20	—	LH turn indicator
21	—	Low fuel warning indicator
22	—	Door ajar warning indicator
23	—	Stability/traction control disabled indicator (sliding car OFF icon)
24	—	<u>MIL</u>
25	—	<u>TPMS</u> warning indicator
26	—	Airbag warning indicator

**GT500 IPC**



N0150472

Item	Part Number	Description
1	—	Safety belt warning indicator
2	—	Upshift indicator
3	—	High beam indicator
4	—	Speedometer
5	—	ABS warning indicator
6	—	Cruise control indicator
7	—	Stability/traction control indicator (sliding car icon)
8	—	Odometer
9	—	Main display area/message center display
10	—	Message center indicator display area
11	—	Low oil pressure warning indicator
12	—	Anti-theft indicator
13	—	Tachometer

14	—	SVT performance shift indicator
15	—	Fuel gauge
16	—	Engine temperature gauge
17	—	Charging system warning indicator
18	—	RH turn indicator
19	—	Brake warning indicator
20	—	LH turn indicator
21	—	Low fuel warning indicator
22	—	Door ajar warning indicator
23	—	Stability/traction control disabled indicator (sliding car OFF icon)
24	—	<u>MIL</u>
25	—	<u>TPMS</u> warning indicator
26	—	Airbag warning indicator

The Instrument Panel Cluster (IPC) contains gauges, informational indicators, warning indicators, warning chimes and a message center designed to provide the driver with system status and to alert the driver that certain conditions exist in the vehicle.

There are 2 basic IPC configurations, base 2x14 line message center and the optional LCD message center. The optional LCD message center IPC has 2 different variations based on vehicle line (optional and GT500).

### MyKey®

The MyKey® feature allows the customer to program a restricted driving mode that is tied to one or more keys known as a MyKey®. When a MyKey® is in use, the IPC provides the following functions:

- At vehicle start up, as part of the welcome strategy, the message center greets the MyKey® driver with MYKEY ACTIVE DRIVE SAFELY displayed in the message center. If the MyKey® speed limiter feature is turned on, the message center also displays SPEED LIMITED TO 80 MPH (or 130 km/h).
- The IPC provides a periodical Belt-Minder® warning chime until the driver and passenger safety belts are buckled. When the Belt-Minder® is issued, the Audio Front Control Module (ACM) is muted and the message center displays BUCKLE UP TO UNMUTE RADIO.
- If the MyKey® speed limiter feature is turned on and the vehicle speed approaches 130 km/h (80 mph), the message center displays VEHICLE SPEED 80 MPH MAX along with a chime.
- If the MyKey® speed limiter feature is turned on and the vehicle speed approaches 120 km/h (75 mph), the message center displays VEHICLE NEAR TOP SPEED along with a chime.
- If the speed warning is selected at one of the pre-set values (75, 90, 105 km/h [45, 55, 65 mph]) and the vehicle approaches the pre-set speed, the message center displays CHECK SPEED DRIVE SAFELY along with a chime.
- If the traction control always on feature is turned on and the MyKey® driver presses the traction control switch to disable traction control, the message center displays ADVTRAC ON MyKey® SETTING.
- At 120 km (75 miles) to empty, the IPC illuminates the low fuel indicator and the message center displays 75 MILES TO EMPTY along with a chime
- MyKey® mileages driven by the MyKey® user can be found in the INFO display and in the system check function of the message center.
- The number of MyKey® programmed and administrator keys can be found in the system check function of the message center.
- The parking aid warning menu is disabled in the message center to force these features always on.

When an administrator key is in use, the IPC provides the following functions:

- The message center provides a menu that guides the user to create a MyKey®. When the maximum MyKey® limit is reached, the MyKey® creation menu is no longer available.
- The message center provides menus for setting 4 optional MyKey® features:
  - MyKey® 80 MPH speed limiter
  - MyKey® pre-selected speed warning
  - MyKey® radio volume limiter
  - Advance Trac® on/off
- The message center provides a menu to clear all MyKey® programmed keys at once.
- MyKey® mileages driven by the MyKey® user can be found in system check function of the message center.
- The number of MyKey® and admin keys can be found in the system check function of the message center.

Refer to Owner's Literature for additional information on the MyKey® features.

## Gauges

Gauges provide information to the driver indicating the status of systems. There are 2 types of gauges used, analog and virtual. Analog gauges are fixed gauges and use actual pointers to provide indication. Virtual gauges are displayed in the LCD display area and are images of gauges that use virtual pointers.

### Analog Gauges

- Engine temperature
- Fuel level
- Speedometer
- Tachometer

### Virtual Gauges (If Equipped)

- Accelerometer
- Air fuel ratio
- Engine oil temperature
- Inlet air temperature
- Boost/vacuum (GT500)
- Transmission fluid temperature
- Voltage gauge

### Informational Indicators

Informational indicators provide information to the driver of conditions that exist in the vehicle. The informational indicators are:

- Engine/powertrain control
  - Cruise control
  - Grade assist
  - MIL
  - Powertrain malfunction (wrench) (base IPC )
  - Upshift (GT500)
  - SVT performance shift indicator (GT500)
- Lighting
  - High beam
  - LH/RH turn signal
- Body
  - Low fuel
- Chassis
  - Stability-traction control (sliding car icon)
  - Stability-traction control disabled (sliding car OFF icon)

### Warning Indicators

Warning indicators provide information to the driver of conditions that could potentially cause personal injury or alter vehicle performance. The warning indicators are:

- Engine/powertrain control
  - Charging system
  - Engine over-temperature
  - Low engine oil pressure
- Occupant/driver safety
  - Airbag
  - Door ajar
  - Safety belt
  - Tire Pressure Monitoring System (TPMS)
- Vehicle control
  - ABS
  - Brake system

### Hardwired Inputs

The hardwired inputs are provided from the following systems or components:

- Engine oil pressure switch
- Fuel pump module
- Fuel level sensor
- Message center switch

- Passive Anti-Theft System (PATS) transceiver
- Traction control disable switch

## Network Messaged Inputs

Module messaging is becoming the standard for sending and receiving information required to operate the IPC . For a complete list of module messages with the message origination sources, refer to [Section 418-00](#).

The status and information messages that the IPC requires from other vehicle inputs are grouped into the following systems/subsystems:

- ABS
  - Anti-lock braking
  - Stability-traction control
- Chassis
  - Brake fluid level status
  - Parking brake status
  - Stability-traction control status
  - TPMS
- Body
  - Door ajar
- Lighting system
  - LH/RH turn signals
  - High beam
- Powertrain
  - Charging system
  - Engine emission system
  - Engine rpm
  - Engine temperature
  - Grade assist
  - Supercharger boost (GT500)
  - Transmission
  - Vehicle speed
- Occupant/driver safety
  - Safety belt status
  - SRS