

Instrument Panel Cluster (IPC) - Overview

Overview

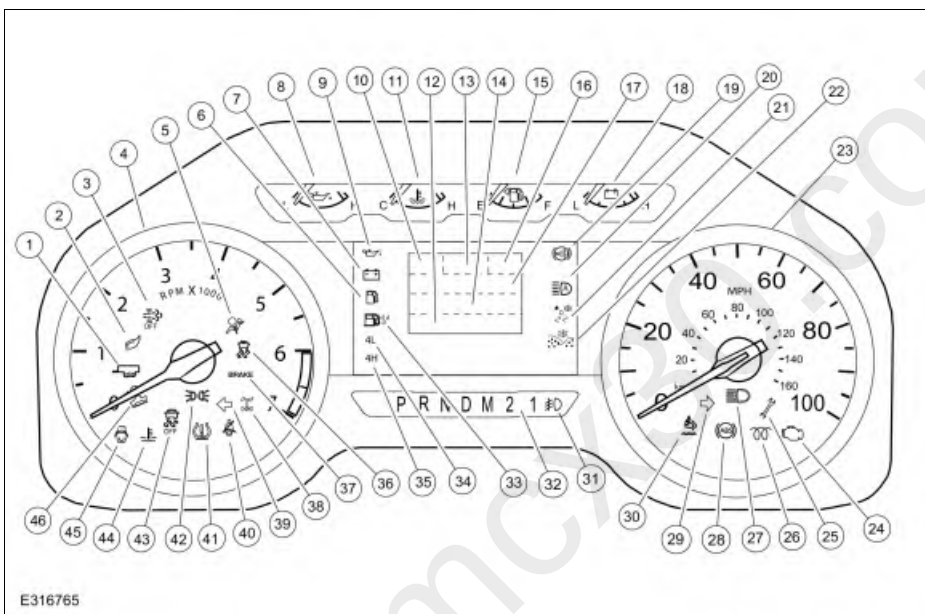
The IPC uses gauges, warning and informational indicators, RTT indicators, warning messages and chimes to alert the driver of vehicle conditions and system operation. The message center provides menu selections to configure various vehicle features. For a complete list and description of the features the message center controls, refer to the Owner's Literature.

The IPC provides a single display screen that contains the message center, RTT indication and virtual gauge displays.

Informational indicators inform the driver of conditions that exist in the vehicle. Warning indicators provide information to the driver of conditions that could potentially cause personal injury or alter vehicle performance.

RTT indicators illuminate in the message center and replace traditional informational or warning indicators, using the same iconic representation. The message center uses a rotating RTT display area that can display multiple indicators, dedicated RTT displays and fixed locations for other RTT indicators and displays.

Base IPC - 2-Inch Display

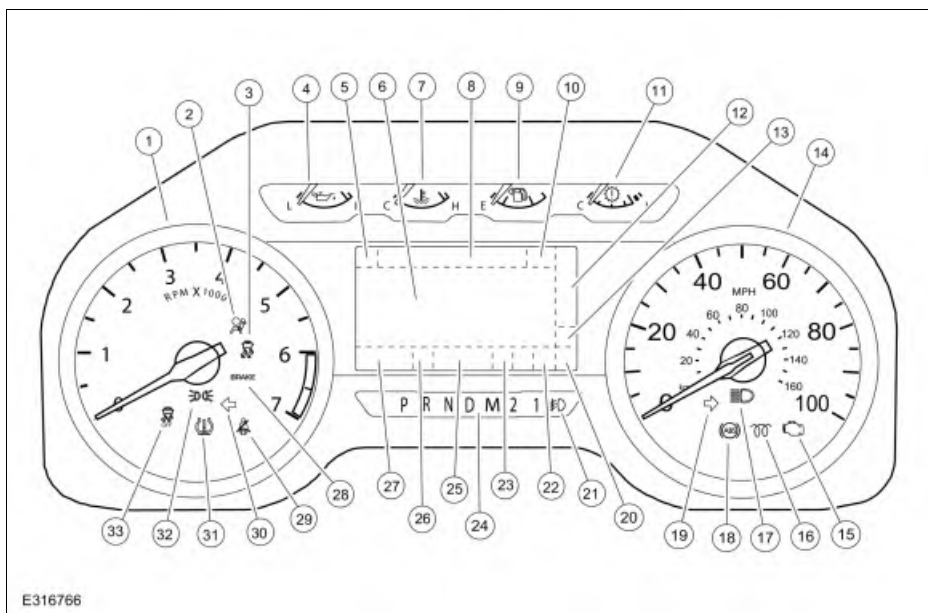


Base 2-Inch Display IPC

Item	Description
1	Tow haul indicator
2	ECO mode indicator
3	Engine brake indicator
4	Tachometer
5	Airbag warning indicator
6	Low fuel indicator
7	Charging system warning indicator
8	Oil pressure gauge
9	Low oil pressure warning indicator
10	Upshift RTT indicator (manual transmission)
11	Engine temperature gauge
12	Odometer display area

Item	Description
13	Cruise control RTT indicator
14	Trip computer display area (may also use the cruise control display area as needed)
15	Fuel gauge
16	Compass display
17	Cruise control and set speed display area (may also use the trip computer and odometer display areas as needed)
18	Charging system gauge
19	DPF auto regeneration (diesel only)
20	Auto high beam indicator
21	Slippery mode indicator
22	Deep snow/sand indicator
23	Speedometer
24	MIL
25	Powertrain malfunction (wrench) indicator
26	Wait to start indicator
27	High beam indicator
28	ABS indicator
29	RH turn indicator
30	Diesel exhaust fluid level indicator
31	Front fog lamp indicator
32	PRNDM display
33	Water in fuel indicator
34	4x4 low indicator
35	4x4 high indicator
36	Stability-traction control indicator (sliding car icon)
37	Brake warning indicator
38	ELD indicator
39	LH turn indicator
40	Seatbelt warning indicator
41	TPMS indicator
42	Lights on indicator
43	Stability-traction control disabled indicator (sliding car OFF icon)
44	Engine over-temperature warning indicator
45	Door ajar warning indicator
46	Hill descent control indicator

Mid-Level 4-inch Display IPC

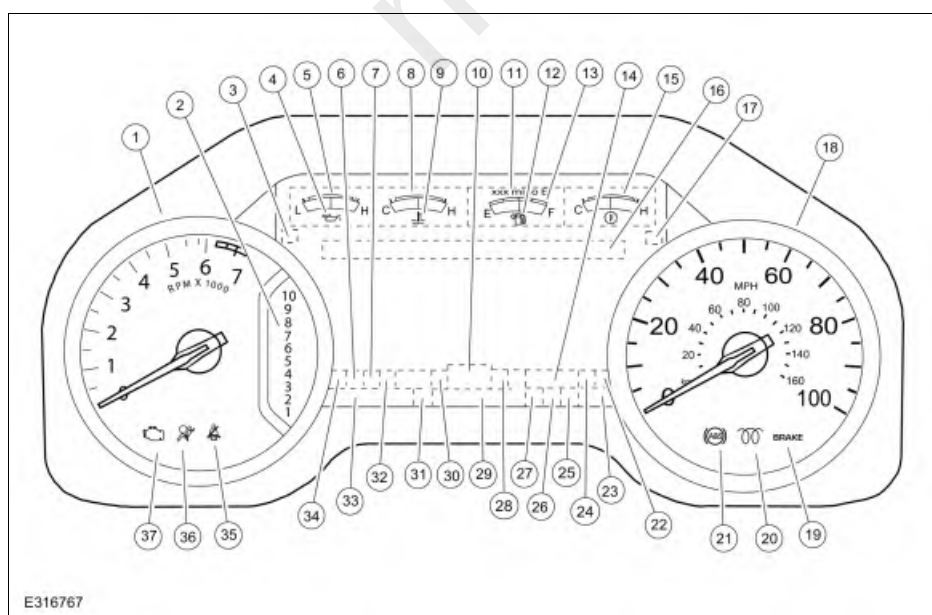


Mid Level 4-Inch Display IPC

Item	Description
1	Tachometer
2	Airbag warning indicator
3	Stability-traction control indicator (sliding car icon)
4	Oil pressure gauge
5	• Main menu navigation icon • Lane departure warning RTT indicator • Lane keep assist RTT indicator
6	Main menu display area
7	Engine temperature gauge
8	Sub-menu display area
9	Fuel gauge
10	• Auto high beam RTT indicator • Compass display
11	Transmission temperature gauge
12	• Manual shift mode, progressive range select and SelectShift® display • ELD RTT indicator • Overspeed warning RTT indicator (Gulf Cooperative Countries [GCC])
13	Cruise control set speed RTT indicator
14	Speedometer
15	MIL
16	Wait to start indicator (diesel only)
17	High beam indicator
18	ABS indicator
19	RH turn indicator
20	• Cruise control or ACC RTT indicator • Trail control RTT indicator
21	Front fog lamp indicator
22	4WD (2H, 4L and 4H) RTT indicator

Item	Description
23	Diesel exhaust fluid level RTT indicator (diesel only)
24	PRNDM display
25	- Rotating RTT display area - Adaptive steering - Blind Spot Information System (BLISÂ®) disabled - Charging system - Deep snow/sand mode - DPF auto regeneration (diesel only) - Door ajar warning - ECO mode - Engine over-temperature warning - Hill descent control - Hood ajar warning - Low engine oil pressure warning - Low fuel - Low washer fluid level - Powertrain malfunction (wrench) - Slippery mode - Tailgate ajar warning - Tow haul mode - Water in fuel (diesel only)
26	- Engine brake RTT indicator (diesel only) - Auto engine brake RTT indicator (diesel only)
27	Odometer
28	Brake warning indicator
29	Seatbelt warning indicator
30	LH turn indicator
31	TPMS indicator
32	Lights on indicator
33	Stability-traction control disabled indicator (sliding car OFF icon)

High-Level 8-Inch Display IPC



High Level 8-Inch Display IPC

Item	Description
1	Tachometer
2	Progressive range select/select shift display
3	LH turn indicator
4	Low engine oil pressure warning RTT indicator
5	Virtual engine oil pressure gauge
6	• Engine brake RTT indicator (diesel only) • Auto engine brake RTT indicator (diesel only)
7	Stability-traction control disabled indicator or RTT indicator (sliding car OFF icon)
8	Virtual engine temperature gauge
9	Engine over-temperature warning RTT indicator
10	• Distance indication display • ACC and lane keeping system display
11	DTE display
12	Low fuel RTT indicator
13	Virtual fuel gauge
14	• Rotating RTT display area ▪ Adaptive steering ▪ BLIS off ▪ Charging system ▪ DPF auto regeneration (diesel only) ▪ Door ajar warning ▪ ELD ▪ Hood ajar warning ▪ Low washer fluid level ▪ Powertrain malfunction (wrench) ▪ Overspeed warning (Gulf Coast Countries [GCC] only) ▪ Tailgate ajar warning ▪ Water in fuel (diesel only)
15	• Configurable virtual gauge ▪ Diesel exhaust fluid level gauge ▪ Transmission temperature gauge ▪ Turbo boost gauge
16	Main menu tabbed navigation
17	RH turn indicator
18	Speedometer
19	Brake warning indicator
20	Wait to start indicator (diesel only)
21	ABS indicator
22	Diesel exhaust fluid level RTT indicator
23	Compass
24	Lights on RTT indicator
25	Auto high beam RTT indicator
26	TPMS RTT indicator
27	Front fog lamp RTT indicator
28	Cruise control/ACC set speed display
29	PRNDM display area

Item	Description
30	• ACC RTT indicator • Trail control RTT indicator
31	• Drive mode RTT indicators ▪ Tow/haul ▪ ECO ▪ Slippery ▪ Deep snow/sand ▪ Rock crawl
32	Stability-traction control indicator or RTT indicator (sliding car icon)
33	Odometer
34	4WD (2H, 4L and 4H) RTT indicator
35	Seatbelt warning indicator
36	Airbag warning indicator
37	MIL

Network Messaged Inputs

Module messaging is the standard for sending and receiving information required to operate the IPC. The majority of the inputs required to operate the IPC are received over the HS-CAN3.

Hardwired Inputs

The IPC requires hardwired inputs from components that are not on the CAN. These components are required for specific IPC functions.

The hardwired inputs are provided by the following components:

- Fuel pump and sender unit
- Fuel level sensor (dual tanks only)
- Hill descent control switch
- Low washer fluid level switch
- Park detect switch (part of the shifter assembly)
- Traction control disable switch