

Ford Raptor Ecoboost

Vacuum Exhaust Bypass Module Information:

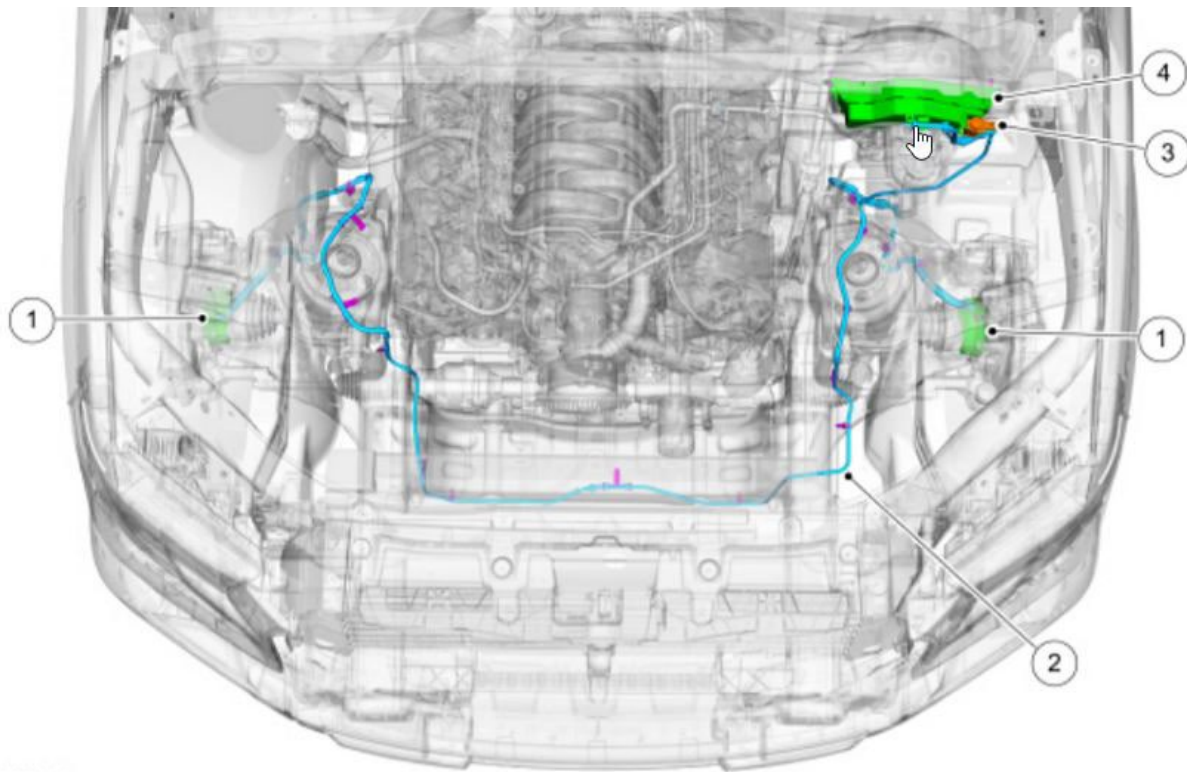
The Raptor has a vacuum manifold on the left side below the cowl, just over the brake booster, which you can tap into for the vacuum supply.

The power for the module, can be reouted inside the cabin and plugged to cigar lighter/aux outlet.

If you prefer a more stealth routing to not show the plug in the cigar lighter, you can cut off the aux plug end and wire power/ground directly from this harness. For the direct power supply, the ignition switched 12V supply can be taken from the cigar lighter in cabin (backside via removing interior trim) or if you prefer not to remove the required interior panels, you can wire into the fuse box under hood, fuse #6 is one of the 2 cigar lighter outlets. The pictures attached shows the fuse box backside harness and wire color leading to pin cavity #6 for #6 fuse 20 amp (white/Blue wire 16 gauge).

Bearing in mind the module and vacuum solenoid are not waterproof, they will need to be installed in a water-free-zone, either under the hood or inside the cabin.

The pictures attached will help you identify the vacuum reservoir, and the wire at fuse box if you decide to go that route for a direct power install.



E226414

(Figure 1)

Item Description:

- 1 IWEs (spring loaded vacuum hubs)
- 2 Vacuum hoses
- 3 IWE solenoid
- 4 Vacuum reservoir

Protected Circuit

No.	A	Protected Circuit
1	25	Horn
2	50	Electric fan 1
3	30	Windshield wiper motor
4	60	Body control module
5	30	Starter relay
6	20	Cigar lighter power point 1
8	20	Cigar lighter power point 2
10	5A	Rain sensor
12	15	Raptor: Upfitter 1 relay
13	10	4x4 run/start
14	15	Adaptive cruise control run/start
		Not used (spare)
7.5		Front view camera
15	15	Raptor: Headlamp leveling run/start
16	10	Powertrain control module
17	10	Anti-lock brakes run/start
18	10	Electric power steering run/start
19	5	Raptor: Upfitter 5 relay
20	40	Blower motor
21	30	Passenger seat motors
22	20	Radio amplifier
23	10	Alt A sensor
24	30	Trailer brake control module
25	50	Body control module 1
26	50	Electric fan
27	30	Driver seat motors/memory module
28	15	Heated seat
29	10	4x4 solenoid
30	25	Trailer tow battery charge
31	-	Not used

Connector: **C1035B** Description: BATTERY JUNCTION BOX (BJB) Color: BK

Harness: 12A681 Base Part #: N/A Service Pigtail: Not Available

Check for Terminal Part Numbers

Pin	Circuit	Gauge	Circuit Function	Qualifier
1	CRW4 (YE-RO)	16	RELAY - HORN	
2	DEQ5 (VT-GY)	10	RELAY - ENGINE COOLING FAN	
3	CB92 (GN)	10	FUSE - 2 OR CIRCUIT BREAKER	
3	CRW3 (VT-WH)	16	RELAY - FRONT WIPER	
4	SB82 (GN-RO)	10	FUSE - 4 OR CIRCUIT BREAKER	
5	QDC25 (BN-GN)	14	RELAY - STARTERS	
6	CB93 (WH-BU)	16	FUSE - 6 OR CIRCUIT BREAKER	
7		*	Not Used	
8	CB92 (GY-YE)	16	FUSE - 8 OR CIRCUIT BREAKER	
9		*	Not Used	
10	CB810 (YE-DO)	22	FUSE - 10 OR CIRCUIT BREAKER	
11	CATD8 (YE)	16	CTRL. MOD. - TRAILER TOW # TURN SIGNAL LEFT	
12	CAT88 (GN)	16	CTRL. MOD. - TRAILER TOW # TURN SIGNAL RIGHT	
12	CB812 (GN-WH)	16	FUSE - 12 OR CIRCUIT BREAKER	
13	CB813 (GY-WH)	22	FUSE - 13 OR CIRCUIT BREAKER	all others Add with CAOS
13	CB813 (GY-BN)	22	FUSE - 13 OR CIRCUIT BREAKER	
14		*	Not Used	
15	CB815 (BN-BU)	22	FUSE - 15 OR CIRCUIT BREAKER	
16	CB816 (BU-GN)	22	FUSE - 16 OR CIRCUIT BREAKER	
17	CB817 (BN-GN)	22	FUSE - 17 OR CIRCUIT BREAKER	
18	CB818 (GY-WH)	22	FUSE - 18 OR CIRCUIT BREAKER	
19	CB819 (BN-WH)	22	FUSE - 19 OR CIRCUIT BREAKER	
20	CH42 (YE-GN)	10	RELAY - FRONT BLOWER	
21	SB821 (GY-WH)	16	FUSE - 21 OR CIRCUIT BREAKER	

