

EEC-IV 60-Pin Master Side-by-Side Pinout Mapping

Pin	1986 Mustang GT (Fed & Cali)	1987-198 8 Mustang GT (Federal)	1987-198 8 Mustang GT (Californi a)	1989 Mustang A9L (Federal)	1989 Mustang A9M/A3 M (Cali)	T-Bird / Cougar / Mark VII (86-88 V8 Fed)	Tuning/Wiring Action Notes for Your Setup
1	KAPWR (+12V Memory)	KAPWR (+12V Memory)	KAPWR (+12V Memory)	KAPWR (+12V Memory)	KAPWR (+12V Memory)	KAPWR (+12V Memory)	Straight through. Feeds keep-alive power to Moates chip.
2	BOO (Brake Switch)	BOO (Brake Switch)	BOO (Brake Switch)	BOO (Brake Switch)	BOO (Brake Switch)	BOO (Brake Switch)	Straight through.
3	VSS + (Speed Sensor)	VSS + (Speed Sensor)	VSS + (Speed Sensor)	VSS + (Speed Sensor)	VSS + (Speed Sensor)	VSS + (Speed Sensor)	Straight through.
4	IDM (Ignition Monitor)	IDM (Ignition Monitor)	IDM (Ignition Monitor)	IDM (Ignition Monitor)	IDM (Ignition Monitor)	IDM (Ignition Monitor)	Straight through via 22k ohm resistor network.
5	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	Open terminal slot.
6	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	Open terminal slot.
7	ECT (Coolant Temp)	ECT (Coolant Temp)	ECT (Coolant Temp)	ECT (Coolant Temp)	ECT (Coolant Temp)	ECT (Coolant Temp)	Straight through. Engine coolant temperature input.
8	<i>Open / Unused</i>	FPM (Fuel Pump)	FPM (Fuel Pump)	FPM (Fuel Pump)	FPM (Fuel Pump)	FPM (Fuel Pump)	CRITICAL BRIDGING SLOT: Move 1986 Pin 22 wire here for non-86

[illegible]

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16	IGN GND (TFI Ground)	IGN GND (TFI Ground)	IGN GND (TFI Ground)	IGN GND (TFI Ground)	IGN GND (TFI Ground)	IGN GND (TFI Ground)	Straight through. Dedicated ignition noise isolation ground.
17	STO / MIL (Check Light)	STO / MIL (Check Light)	STO / MIL (Check Light)	STO / MIL (Check Light)	STO / MIL (Check Light)	STO / MIL (Check Light)	Straight through dashboard error routing line.
18	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	Open terminal slot.
19	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	Open terminal slot.
20	CASE GND (Metal Shield)	CASE GND (Metal Shield)	CASE GND (Metal Shield)	CASE GND (Metal Shield)	CASE GND (Metal Shield)	CASE GND (Metal Shield)	Straight through computer housing ground line.
21	ISC (Idle Speed Ctrl)	ISC (Idle Speed Ctrl)	ISC (Idle Speed Ctrl)	ISC (Idle Speed Ctrl)	ISC (Idle Speed Ctrl)	ISC (Idle Speed Ctrl)	Straight through idle control bypass step module track.
22	FP RELAY (Pump Ground)	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	CRITICAL REMAP: Route your '86 chassis Pin 22 out into Pin 8 on other boxes.
23	EVR (EGR)	EVR (EGR)	EVR (EGR)	EVR (EGR)	EVR (EGR)	EVR (EGR)	Straight through. Turn off scalar

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	Solenoid)	Solenoid)	Solenoid)	Solenoid)	Solenoid)	Solenoid)	switches in BE if bypassed.
24	CANP (Canister Purge)	CANP (Canister Purge)	CANP (Canister Purge)	CANP (Canister Purge)	CANP (Canister Purge)	CANP (Canister Purge)	Straight through evaporative loop signal.
25	ACT (Air Temp Sensor)	ACT (Air Temp Sensor)	ACT (Air Temp Sensor)	ACT (Air Temp Sensor)	ACT (Air Temp Sensor)	ACT (Air Temp Sensor)	Straight through intake density modifier line.
26	VREF (+5V Output)	VREF (+5V Output)	VREF (+5V Output)	VREF (+5V Output)	VREF (+5V Output)	VREF (+5V Output)	Straight through sensor power distribution bus.
27	EVP (EGR Position)	EVP (EGR Position)	EVP (EGR Position)	EVP (EGR Position)	EVP (EGR Position)	EVP (EGR Position)	Straight through valve height positioning feedback track.
28	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	<i>Open / Unused</i>	Open terminal slot.
29	HEGO (Left O2 Sensor)	HEGO (Left O2 Sensor)	HEGO (Left O2 Sensor)	HEGO (Left O2 Sensor)	HEGO (Left O2 Sensor)	HEGO (Left O2 Sensor)	Straight through exhaust O2 voltage path.
30	NDS (Neutral Switch)	NDS (Neutral Switch)	NDS (Neutral Switch)	NDS (Neutral Switch)	NDS (Neutral Switch)	NDS (Neutral Switch)	Clutch/Neutral safety loop. Ensure zero volt offset when cranking.

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secondary operating current channel. |

| **58** | INJ 2 (Injector 2 GND) | INJ 2 (Injector 2 GND) | INJ 2 (Injector 2 GND) | INJ 2 (Injector 2 GND) | INJ 2 (Injector 2 GND) | INJ 2 (Injector 2 GND) | Straight through. |

| **59** | *Open / Unused* | *Open / Unused* | *Open / Unused* | *Open / Unused* | *Open / Unused* | *Open / Unused* |
Open / Unused | Open terminal slot. |

| **60** | PWR GND (Battery -) | PWR GND (Battery -) | PWR GND (Battery -) | PWR GND (Battery -) | PWR GND (Battery -) | PWR GND (Battery -) | Straight through heavy load current master return line. |

Key Execution Tips For Your Rotunda Jumpers:

1. **The Fuel Pump Relay Fix:** When checking non-1986 computers, bridge **Chassis Side Pin 22** out to **ECU Side Pin 8**. If you skip this, your fuel pump ground circuit will never pull low and the pump won't cycle.
2. **The Oxygen Sensor Ground Bridge:** Your factory '86 harness does not run an active trace wire down to **Pin 49**. For any 1987+ Speed Density or MAF box configuration, tap into the wire at Pin 46 (Signal Return Ground) or route an independent block ground line directly to **Pin 49 on the ECU side**. This provides a zero-volt logic baseline for your oxygen sensor mappings.