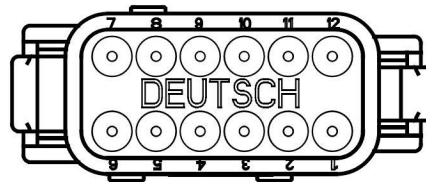


## TA2 Auxiliary Connector

On the TA2 Chassis Harness, Connector 4 (C4) is the Auxiliary or AUX Connector:

# C4



Key A

1 - Viewed from the REAR of Connector

| C4: DTM06-12SA Label: AUX |      |      |            |                |                   |                        |
|---------------------------|------|------|------------|----------------|-------------------|------------------------|
| Cav                       | Col. | Spec | End 2 name | End 2 location | Short Description | Terminal part no. supp |
| 1                         | BLK  | 20   | SP4        | L              | VREF +5V AUX      | 1062-20-0222           |
| 2                         | BLK  | 22   | SP2        | L              | SENSOR GND AUX    | 1062-20-0222           |
| 3                         | BLK  | 22   | C1         | 2              | TACH              | 1062-20-0222           |
| 4                         | BLK  | 22   | C1         | 30             | KILL SWITCH       | 1062-20-0222           |
| 5                         | BLK  | 22   | C1         | 41             | FUEL PUMP         | 1062-20-0222           |
| 6                         | BLK  | 22   | C1         | 21             | COOLING FAN       | 1062-20-0222           |
| 7                         | BLK  | 22   | C1         | 42             | MIL OUTPUT        | 1062-20-0222           |
| 8                         | BLK  | 22   | C1         | 70             | STEERING ANGLE    | 1062-20-0222           |
| 9                         | BLK  | 22   | C1         | 71             | BRAKE PRESSURE    | 1062-20-0222           |
| 10                        | BLK  | 20   | C1         | 48             | IGNITION S/W      | 1062-20-0222           |
| 11                        | BLK  | 20   | SP3        | L              | GND               | 1062-20-0222           |
| 12                        | BLK  | 20   | SP6        | L              | AUX +12V          | 1062-20-0222           |

A mating AUX connector (DTM04-12P) has been supplied with the chassis harness that was received for the vehicle. The mating connector, as supplied, has 6' flying leads installed. The following will describe the necessary installation of each AUX component in order for the Infinity ECU to properly receive/transmit each signal/output.

**POWER/GROUNDS:**

| <b>C4: DTM06-12SA Label: AUX</b> |      |      |            |                |                   |                        |
|----------------------------------|------|------|------------|----------------|-------------------|------------------------|
| Cav                              | Col. | Spec | End 2 name | End 2 location | Short Description | Terminal part no. supp |
| 1                                | BLK  | 20   | SP4        | L              | VREF +5V AUX      | 1062-20-0222           |
| 2                                | BLK  | 22   | SP2        | L              | SENSOR GND AUX    | 1062-20-0222           |

**Pin 1 (VREF +5V AUX)** and **Pin 2 (SENSOR GND AUX)** are voltage reference for use with sensors.

|    |     |    |     |   |          |              |
|----|-----|----|-----|---|----------|--------------|
| 11 | BLK | 20 | SP3 | L | GND      | 1062-20-0222 |
| 12 | BLK | 20 | SP6 | L | AUX +12V | 1062-20-0222 |

**Pin 11 (GND)** and **Pin 12 (AUX +12V)** are battery supply voltages.\*\*\* **DO NOT EXCEED 5A ON THESE CIRCUITS!**\*\*\*

**INPUT/OUTPUT FUNCTIONS:**

|    |     |    |    |    |                |              |
|----|-----|----|----|----|----------------|--------------|
| 3  | BLK | 22 | C1 | 2  | TACH           | 1062-20-0222 |
| 4  | BLK | 22 | C1 | 30 | KILL SWITCH    | 1062-20-0222 |
| 5  | BLK | 22 | C1 | 41 | FUEL PUMP      | 1062-20-0222 |
| 6  | BLK | 22 | C1 | 21 | COOLING FAN    | 1062-20-0222 |
| 7  | BLK | 22 | C1 | 42 | MIL OUTPUT     | 1062-20-0222 |
| 8  | BLK | 22 | C1 | 70 | STEERING ANGLE | 1062-20-0222 |
| 9  | BLK | 22 | C1 | 71 | BRAKE PRESSURE | 1062-20-0222 |
| 10 | BLK | 20 | C1 | 48 | IGNITION S/W   | 1062-20-0222 |

**Pin 3 (TACH):** A **LOW SIDE OUTPUT** that generates a digital signal for a tachometer to display engine RPM. If the TACH that this signal is driving requires a **HIGH SIDE** drive, a **2k $\Omega$**  pull-up resistor must be spliced into the TACH output wire and then connected to a +12v source.

**Pin 4 (Kill Switch):** A **DIGITAL INPUT** that the Infinity receives and cuts fuel and spark events in order to kill the engine without power cycling the ECU. This input can be wired as a **MOMENTARY BUTTON** or a **TOGGLE SWITCH**. The other pole of the switch or the button **MUST** be wired to **Pin 2 (SENSOR GND AUX)**.

**Pin 5 (Fuel Pump):** A **LOW SIDE OUTPUT** that is used to control a fuel pump relay. This **MUST** be wired to **Pin 86** of the relay. \*\*\***DO NOT WIRE THIS PIN DIRECTLY TO FUEL PUMP (-) TERMINAL OR PERMANENT ECU DAMAGE WILL OCCUR!**\*\*\*



***Pin 6 (Cooling Fan):*** A **LOW SIDE OUTPUT** that is used to control a cooling fan **relay**. This **MUST** be wired to **Pin 86** of the relay. **\*\*\*DO NOT WIRE THIS PIN DIRECTLY TO COOLING FAN (-) TERMINAL OR PERMANENT ECU DAMAGE WILL OCCUR!\*\*\***

***Pin 7 (MIL Output):*** A **LOW SIDE OUTPUT** that is used to control an engine malfunction indicator light. The functions of the MIL Light can be found in the Infinity Tuner User Manual. The other pole of the light **MUST** be wired to switched +12v (**Pin 12** of the **AUX Connector** can be used).

***Pin 8 (Steering Angle):*** An **ANALOG INPUT** that requires **VREF +5V (Pin 1)** and **SENSOR GND (Pin 2)**. Ensure that the correct calibration is setup in the Infinity ECU as **ANALOG 18**.

***Pin 9 (Brake Pressure):*** An **ANALOG INPUT** that requires **VREF +5V (Pin 1)** and **SENSOR GND (Pin 2)**. Ensure that the correct calibration is setup in the Infinity ECU as **ANALOG 16**.

***Pin 10 (Ignition Switch):*** +12v resource need for ECU when Ignition Switch is turned on. **DO NOT CONNECT DIRECTLY TO BATTERY (+), MUST BE (+12V) FROM IGNITION SWITCH.**