



Service Bulletin

Bulletin No.: PIP5700F

Date: October, 2025

PRELIMINARY INFORMATION

Subject: 8L45 8L90 Internal Wiring Harness Part Numbers By Application

| Brand: | Model: | Model Year: | | VIN: | | Engine: | Transmission: |
|-----------|--------------------------------|-------------|----|------|-----|---------|---------------|
| | | from | to | from | to | | |
| Cadillac | ATS Models | 2016 - 2019 | | All | All | All | M5N M5T M5U |
| Cadillac | CT4 Models | 2020 - 2023 | | All | All | All | M5N |
| Cadillac | CT6 | 2016 - 2018 | | All | All | All | M5N M5X |
| Cadillac | CTS Models | 2016 - 2019 | | All | All | All | M5N M5U |
| Cadillac | Escalade | 2015 - 2017 | | All | All | All | M5U |
| Cadillac | Escalade ESV | 2015-2017 | | All | All | All | M5U |
| Chevrolet | Camaro | 2016 - 2023 | | All | All | All | M5T M5U |
| Chevrolet | Colorado | 2017 - 2022 | | All | All | All | M5T |
| Chevrolet | Corvette | 2015 - 2019 | | All | All | All | M5U |
| Chevrolet | Express | 2017 - 2023 | | All | All | All | M5U |
| Chevrolet | Silverado 1500 | 2015 - 2018 | | All | All | All | M5U M5X |
| Chevrolet | Silverado 1500 New Model | 2019 | | All | All | All | MQE |
| Chevrolet | Silverado 1500 | 2020 - 2023 | | All | All | All | MQE |
| GMC | Canyon | 2017 - 2022 | | All | All | All | M5T |
| GMC | Savana | 2017 - 2023 | | All | All | All | M5U |
| GMC | Sierra 1500 | 2015 - 2018 | | All | All | All | M5U M5X |
| GMC | Sierra 1500 New Model | 2019 | | All | All | All | MQE |
| GMC | Sierra 1500 | 2020 - 2023 | | All | All | All | MQE |
| GMC | Yukon | 2015 - 2017 | | All | All | All | M5U |
| GMC | Yukon XL | 2015 - 2017 | | All | All | All | M5U |

| | |
|-----------------------------------|---|
| Involved Region or Country | North America |
| Condition | Some customers may comment on the operation or performance of the 8L45 or 8L90 transmission. |
| Cause | Diagnostics may lead to the replacement of the transmission internal wiring harnesses. At this time the part numbers for the 2 piece harness are not available in the Electronic Parts Catalog. |

Correction

Please refer to following information to obtain the part numbers for the transmission internal harnesses by application.

Note: ESS refers to a vehicles equipped with Start Stop and Non ESS refers to vehicles that are not equipped with Start Stop.

Note: One piece wiring harnesses are no longer available.

Please refer to the following GDS2 data to aid in determining if the vehicle you are working on has a 10 pin or a 4 pin internal mode switch.

Below is an example of the transmission data from a vehicle equipped with a 10 pin internal mode switch.

| Data List: Transmission Data | |
|--------------------------------|-----------------------|
| Parameter Name | Value |
| Internal Mode Switch | Drive |
| Internal Mode Switch A/D/C/P/S | Low High High Low Low |
| Internal Mode Switch A | 1.96 V |
| Internal Mode Switch A Status | Valid |
| Internal Mode Switch B | 0.82 V |
| Internal Mode Switch B Status | Valid |
| Internal Mode Switch C | 0.80 V |
| Internal Mode Switch C Status | Valid |
| Internal Mode Switch P | 1.82 V |
| Internal Mode Switch P Status | Valid |
| Internal Mode Switch S | 1.94 V |
| Internal Mode Switch S Status | Valid |

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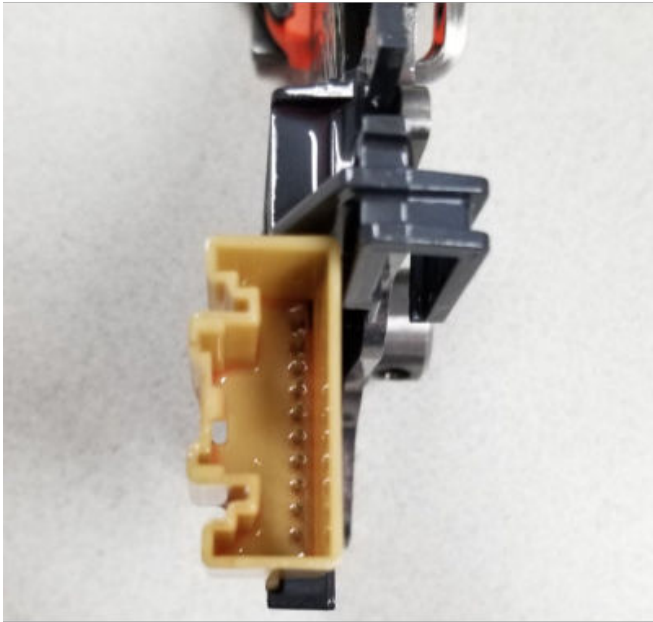
Below is an example of the transmission data from a vehicle equipped with a 4 pin internal mode switch.

| Data List: Transmission Data | |
|------------------------------|--------|
| Parameter Name | Value |
| Transmission Range Switch | Park |
| Transmission Range Sensor 2 | 86.1 % |
| Transmission Range Sensor 1 | 13.7 % |

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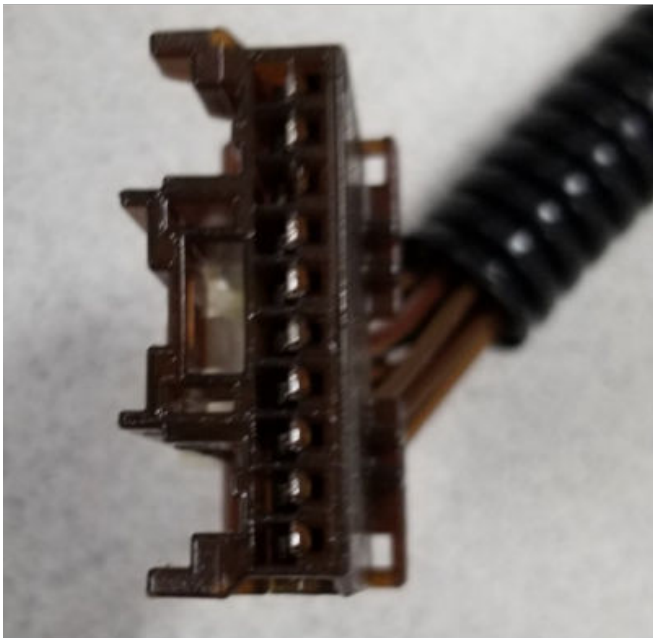
Please refer to the following pictures to aid in determining which internal mode switch is installed in the vehicle you are working on.

Example of a 10 pin internal mode switch.



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Example of a 10 pin internal harness connector.



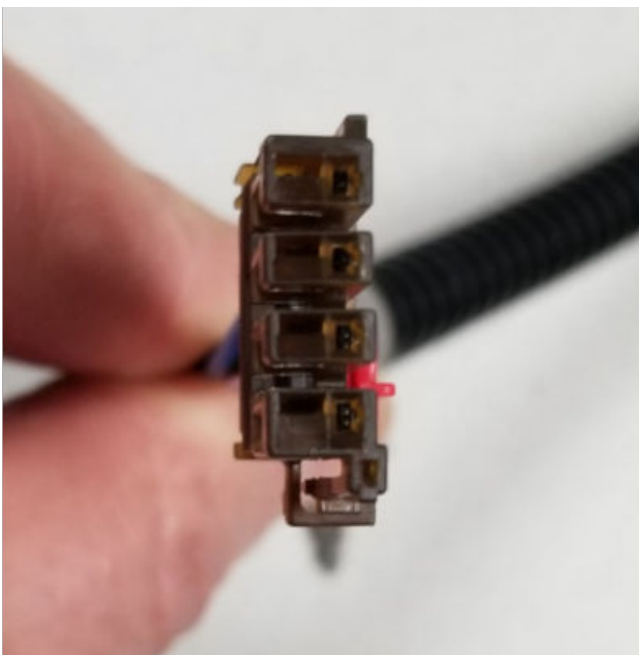
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Example of a 4 pin internal mode switch.



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Example of a 4 pin internal harness connector.



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Parts Information

| Description | Part Number | Qty |
|---|-------------|-----|
| Pass Thru Harness With 10 Pin IMS Non-ESS (Item #37) | 24045609 | 1 |
| Valve Body Harness With 10 Pin IMS Non-ESS (Item #313) | 24046895 | 1 |
| Pass Thru Harness With 10 Pin IMS With ESS (Item #37) | 24298759 | 1 |
| Valve Body Harness With 10 Pin IMS With ESS (Item #313) | 24046895 | 1 |
| Pass Thru Harness With 4 Pin IMS Non-ESS (Item #37) | 24045609 | 1 |
| Valve Body Harness With 4 Pin IMS Non-ESS (Item #313) | 24046896 | 1 |
| Pass Thru Harness With 4 Pin IMS With ESS (Item #37) | 24045608 | 1 |
| Valve Body Harness With 4 Pin IMS With ESS (Item #313) | 24046896 | 1 |

| | |
|-----------------|---|
| Version | 7 |
| Modified | <p>01/14/2020 - Created on.</p> <p>01/17/2020 - Added description of ESS and Non ESS.</p> <p>03/04/2020 - Added 2015-2017 GMC Yukon Denali.</p> <p>05/04/2020 - Added information on how to use GDS2 data to aid in determining which internal mode switch the vehicle is equipped with.</p> <p>01/14/2021 - Added the 2021 model year</p> <p>11/27/2023-Updated part numbers</p> <p>10/30/2025 - Updated Model years and added Item Numbers to the parts section</p> |

