



# Preliminary Information

## PIP5353F Diagnostic Tip - Engine Rough Idle Misfire Surging and/or Poor Transmission Shift Feel Possible Crossed Fuel Injector Harness

### Models

| Brand:    | Model:        | Model Years: | VIN: |     | Engine:            | Transmissions:                           |
|-----------|---------------|--------------|------|-----|--------------------|------------------------------------------|
|           |               |              | from | to  |                    |                                          |
| Buick     | Encore        | 2014 - 2021  | All  | All | LUJ 1.4L, LUV 1.4L | MH8 MHB MNK 6T40, MR5 6-speed manual     |
| Chevrolet | Cruze         | 2011 - 2015  | All  | All | LUJ 1.4L, LUV 1.4L | MH8 6T40, MZ4 MF3 6-speed Manual         |
| Chevrolet | Cruze Limited | 2016         | All  | All | LUJ 1.4L, LUV 1.4L | MH8 6T40, MF3 MR5 6-speed Manual         |
| Chevrolet | Sonic         | 2012 - 2020  | All  | All | LUJ 1.4L, LUV 1.4L | MH8 6T40, MZ4 MR5 6-speed Manual         |
| Chevrolet | Trax          | 2013 - 2021  | All  | All | LUJ 1.4L, LUV 1.4L | MH8 MHB MNH MNK 6T40, MR5 6-speed manual |

### Supersession Statement

This PI was superseded to update model years. Please discard PIP5353E.

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

### Condition / Concern

**A technician may encounter a rough idle, surge, shudder, poor transmission shift feel, misfire with or with out diagnostic trouble code (DTC) P0300 set in the Engine Control Module (ECM).**

### Recommendations / Instructions

**While performing the visual inspection portion of Strategy Based Diagnosis, utilize engine controls schematics to compare the Fuel Injector Control Circuit wire colors at the fuel injectors and at the ECM connectors.**

**The connections at the fuel injectors or individual circuits at the ECM connectors can be reversed leading to misfires that may occur only under specific circumstances or RPM ranges making them difficult to duplicate or diagnose.**

**If this concern is found, inspect the related harnesses and terminals for signs damage due to the misrouting.**

**If this concern is not found, continue with SBD on the symptoms.**

Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.

### Additional SI Keywords

converter, chuggle, harsh, M32, TCC, torque,



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