

TT8025EN  
August, 2017  
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**SUBJECT:** Incorrect 5th Generation Controls Engine Brake Calibration Setting In Certain Freightliner Custom Chassis Corporation (FCCC) Motorhomes May Cause Transmission To Not Downshift During Engine Braking Event

**MODELS AFFECTED:** 2500MH Transmissions in FCCC Motorhomes with Allison 5th Generation Controls



**NOTE:** FCCC dealers are asked to coordinate with Allison distributors and dealers for repair as outlined in Daimler Trucks North America (DTNA) ICI017-020. DTNA will utilize the Allison service channel and has agreed to reimburse Allison for repairs.

### Description of Complaint:

The transmission may not downshift during an engine braking event.

### Background:

FCCC has applied an incorrect 5th Generation Controls calibration setting for parameter 29080: J1939 SA: EBC1 Engine Retarder Selection in certain chassis. This incorrect calibration setting may prevent operation of the Engine Brake Preselect input function. Parameter 29080: J1939 SA: EBC1 Engine Retarder Selection was incorrectly set to value 254 (Autodetect). The correct value for this parameter in these chassis is 33 (Body Controller).

**Table 1. Affected Population**

| VIN               | TCM Assembly Number to load to change 29080 from 254 to 33 | Transmission Serial Number |
|-------------------|------------------------------------------------------------|----------------------------|
| 4UZAAJDT0HCHZ1974 | 61BR0C51                                                   | 6311445773                 |
| 4UZAAJDT0HCHZ8018 | 61BR0C51                                                   | 6311449316                 |
| 4UZAAJDT0HCHZ8021 | 61BR0C51                                                   | 6311449893                 |
| 4UZAAJDT0HCJA3447 | 61BR0C51                                                   | 6311453777                 |
| 4UZAAJDT0HCJB1225 | 61BR0C51                                                   | 6311459365                 |
| 4UZAAJDT0HCJB4612 | 61BR0C51                                                   | 6311463034                 |
| 4UZAAJDT0HCJB7459 | 61BR0C51                                                   | 6311459366                 |
| 4UZAAJDT1HCHZ2003 | 61BR0C51                                                   | 6311447884                 |
| 4UZAAJDT1HCJC2606 | 61BR0C50                                                   | 6311465852                 |
| 4UZAAJDT1HCJC3545 | 61BR0C50                                                   | 6311465853                 |

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**Table 1. Affected Population (cont'd)**

| VIN               | TCM Assembly Number to load to<br>change 29080 from 254 to 33 | Transmission Serial Number |
|-------------------|---------------------------------------------------------------|----------------------------|
| 4UZAAJDT2HCHZ1975 | 61BR0C51                                                      | 6311445781                 |
| 4UZAAJDT2HCHZ8019 | 61BR0C51                                                      | 6311449898                 |
| 4UZAAJDT2HCHZ8022 | 61BR0C51                                                      | 6311449891                 |
| 4UZAAJDT2HCJB1226 | 61BR0C51                                                      | 6311459364                 |
| 4UZAAJDT3HCHZ2004 | 61BR0C51                                                      | 6311447886                 |
| 4UZAAJDT3HCJA5287 | 61BR0C51                                                      | 6311454913                 |
| 4UZAAJDT3HCJC2607 | 61BR0C50                                                      | 6311465854                 |
| 4UZAAJDT3HCJC3546 | 61BR0C50                                                      | 6311465965                 |
| 4UZAAJDT4HCHZ1976 | 61BR0C51                                                      | 6311445782                 |
| 4UZAAJDT4HCHZ8023 | 61BR0C51                                                      | 6311449892                 |
| 4UZAAJDT4HCJB1227 | 61BR0C51                                                      | 6311459363                 |
| 4UZAAJDT4HCJB8467 | 61BR0C50                                                      | 6311463194                 |
| 4UZAAJDT4HCJB9618 | 61BR0C50                                                      | 6311462127                 |
| 4UZAAJDT5HCHZ2005 | 61BR0C51                                                      | 6311445336                 |
| 4UZAAJDT5HCJA3444 | 61BR0C51                                                      | 6311445685                 |
| 4UZAAJDT5HCJA4786 | 61BR0C51                                                      | 6311462905                 |
| 4UZAAJDT5HCJA5288 | 61BR0C51                                                      | 6311463612                 |
| 4UZAAJDT5HCJB2404 | 61BR0C51                                                      | 6311462907                 |
| 4UZAAJDT5HCJC3547 | 61BR0C50                                                      | 6311461867                 |
| 4UZAAJDT5HCJC3550 | 61BR0C50                                                      | 6311462904                 |
| 4UZAAJDT6HCHZ1977 | 61BR0C51                                                      | 6311466446                 |
| 4UZAAJDT6HCHZ1980 | 61BR0C51                                                      | 6311462903                 |
| 4UZAAJDT6HCHZ8024 | 61BR0C51                                                      | 6311462906                 |
| 4UZAAJDT6HCJB1228 | 61BR0C51                                                      | 6311466059                 |
| 4UZAAJDT6HCJB4078 | 61BR0C51                                                      | 6311466025                 |
| 4UZAAJDT6HCJB9619 | 61BR0C50                                                      | 6311465330                 |
| 4UZAAJDT7HCHZ1972 | 61BR0C51                                                      | 6311445779                 |
| 4UZAAJDT7HCHZ8016 | 61BR0C51                                                      | 6311449896                 |
| 4UZAAJDT7HCJA3445 | 61BR0C51                                                      | 6311454167                 |
| 4UZAAJDT7HCJB2405 | 61BR0C51                                                      | 6311458862                 |
| 4UZAAJDT7HCJB4610 | 61BR0C51                                                      | 6311463033                 |
| 4UZAAJDT7HCJB8074 | 61BR0C50                                                      | 6311463710                 |
| 4UZAAJDT7HCJC3548 | 61BR0C50                                                      | 6311465964                 |
| 4UZAAJDT8HCHZ1978 | 61BR0C51                                                      | 6311445774                 |

**Table 1. Affected Population (cont'd)**

| VIN                | TCM Assembly Number to load to<br>change 29080 from 254 to 33 | Transmission Serial Number |
|--------------------|---------------------------------------------------------------|----------------------------|
| 4UZA AJDT8HCHZ1981 | 61BR0C51                                                      | 6311445777                 |
| 4UZA AJDT8HCHZ2001 | 61BR0C51                                                      | 6311447881                 |
| 4UZA AJDT8HCJB4079 | 61BR0C51                                                      | 6311460885                 |
| 4UZA AJDT9HCHZ1973 | 61BR0C51                                                      | 6311445778                 |
| 4UZA AJDT9HCHZ8017 | 61BR0C51                                                      | 6311449895                 |
| 4UZA AJDT9HCHZ8020 | 61BR0C51                                                      | 6311449897                 |
| 4UZA AJDT9HCJA3446 | 61BR0C51                                                      | 6311454168                 |
| 4UZA AJDT9HCJB2406 | 61BR0C51                                                      | 6311458858                 |
| 4UZA AJDT9HCJB4611 | 61BR0C51                                                      | 6311463035                 |
| 4UZA AJDT9HCJB6844 | 61BR0C51                                                      | 6311462127                 |
| 4UZA AJDT9HCJC3549 | 61BR0C50                                                      | 6311465967                 |
| 4UZA AJDTXHCHZ1979 | 61BR0C51                                                      | 6311445775                 |
| 4UZA AJDTXHCHZ2002 | 61BR0C51                                                      | 6311447883                 |
| 4UZAB2DT0HCHZ3307  | 61BR0C53                                                      | 6311445688                 |
| 4UZAB2DT0HCHZ3310  | 61BR0C53                                                      | 6311445693                 |
| 4UZAB2DT0HCHZ7762  | 61BR0C53                                                      | 6311452132                 |
| 4UZAB2DT1HCHZ3297  | 61BR0C53                                                      | 6311445329                 |
| 4UZAB2DT1HCHZ3302  | 61BR0C53                                                      | 6311445334                 |
| 4UZAB2DT1HCHZ3316  | 61BR0C53                                                      | 6311445692                 |
| 4UZAB2DT1HCJA3296  | 61BR0C53                                                      | 6311451263                 |
| 4UZAB2DT2HCHZ3308  | 61BR0C53                                                      | 6311445695                 |
| 4UZAB2DT2HCHZ3311  | 61BR0C53                                                      | 6311445686                 |
| 4UZAB2DT3HCHZ3298  | 61BR0C53                                                      | 6311445325                 |
| 4UZAB2DT3HCHZ3303  | 61BR0C53                                                      | 6311445332                 |
| 4UZAB2DT4HCHZ3309  | 61BR0C53                                                      | 6311445676                 |
| 4UZAB2DT4HCHZ3312  | 61BR0C53                                                      | 6311445690                 |
| 4UZAB2DT5HCHZ3299  | 61BR0C53                                                      | 6311445327                 |
| 4UZAB2DT5HCHZ3304  | 61BR0C53                                                      | 6311445681                 |
| 4UZAB2DT6HCHZ3313  | 61BR0C53                                                      | 6311445694                 |
| 4UZAB2DT6HCHZ4672  | 61BR0C53                                                      | 6311448701                 |
| 4UZAB2DT6HCHZ7765  | 61BR0C53                                                      | 6311451528                 |
| 4UZAB2DT7HCHZ3305  | 61BR0C53                                                      | 6311445691                 |
| 4UZAB2DT7HCJA0452  | 61BR0C53                                                      | 6311451867                 |
| 4UZAB2DT7HCJA4727  | 61BR0C53                                                      | 6311454646                 |

**Table 1. Affected Population (cont'd)**

| <b>VIN</b>        | <b>TCM Assembly Number to load to<br/>change 29080 from 254 to 33</b> | <b>Transmission Serial Number</b> |
|-------------------|-----------------------------------------------------------------------|-----------------------------------|
| 4UZAB2DT8HCHZ3278 | 61BR0C53                                                              | 6311445678                        |
| 4UZAB2DT8HCHZ3300 | 61BR0C53                                                              | 6311445336                        |
| 4UZAB2DT8HCHZ3314 | 61BR0C53                                                              | 6311445683                        |
| 4UZAB2DT8HCHZ4673 | 61BR0C53                                                              | 6311448717                        |
| 4UZAB2DT8HCHZ5113 | 61BR0C53                                                              | 6311447844                        |
| 4UZAB2DT9HCHZ3306 | 61BR0C53                                                              | 6311445679                        |
| 4UZAB2DT9HCHZ5380 | 61BR0C53                                                              | 6311448811                        |
| 4UZAB2DT9HCJA0453 | 61BR0C52                                                              | 6311451866                        |
| 4UZAB2DT9HCJA4728 | 61BR0C53                                                              | 6311454650                        |
| 4UZAB2DTXHCHZ3301 | 61BR0C53                                                              | 6311445335                        |
| 4UZAB2DTXHCHZ3315 | 61BR0C53                                                              | 6311445685                        |
| 4UZAB2DTXHCHZ7767 | 61BR0C53                                                              | 6311451530                        |
| 4UZACJDT0HCHZ3444 | 61BR0C53                                                              | 6311445333                        |
| 4UZACJDT0HCHZ5226 | 61BR0C53                                                              | 6311448069                        |
| 4UZACJDT0HCHZ8028 | 61BR0C53                                                              | 6311449948                        |
| 4UZACJDT0HCHZ8031 | 61BR0C53                                                              | 6311449951                        |
| 4UZACJDT0HCJA4785 | 61BR0C53                                                              | 6311454651                        |
| 4UZACJDT0HCJB1235 | 61BR0C53                                                              | 6311459430                        |
| 4UZACJDT0HCJB4085 | 61BR0C53                                                              | 6311460525                        |
| 4UZACJDT0HCJC3563 | 61BR0C52                                                              | 6311466972                        |
| 4UZACJDT1HCHZ1993 | 61BR0C53                                                              | 6311445689                        |
| 4UZACJDT1HCHZ2013 | 61BR0C53                                                              | 6311448716                        |
| 4UZACJDT1HCHZ5218 | 61BR0C53                                                              | 6311448060                        |
| 4UZACJDT1HCHZ5221 | 61BR0C53                                                              | 6311447841                        |
| 4UZACJDT1HCJA3449 | 61BR0C53                                                              | 6311451532                        |
| 4UZACJDT1HCJA7386 | 61BR0C53                                                              | 6311457866                        |
| 4UZACJDT1HCJB8825 | 61BR0C52                                                              | 6311462905                        |
| 4UZACJDT1HCJC3555 | 61BR0C52                                                              | 6311466896                        |
| 4UZACJDT2HCHZ3445 | 61BR0C53                                                              | 6311445337                        |
| 4UZACJDT2HCHZ5227 | 61BR0C53                                                              | 6311448070                        |
| 4UZACJDT2HCHZ8029 | 61BR0C53                                                              | 6311449949                        |
| 4UZACJDT2HCHZ9682 | 61BR0C53                                                              | 6311451272                        |
| 4UZACJDT2HCJA4738 | 61BR0C53                                                              | 6311453060                        |
| 4UZACJDT2HCJB4086 | 61BR0C53                                                              | 6311460524                        |

**Table 1. Affected Population (cont'd)**

| <b>VIN</b>        | <b>TCM Assembly Number to load to<br/>change 29080 from 254 to 33</b> | <b>Transmission Serial Number</b> |
|-------------------|-----------------------------------------------------------------------|-----------------------------------|
| 4UZACJDT2HCJB7456 | 61BR0C52                                                              | 6311461870                        |
| 4UZACJDT3HCHZ2014 | 61BR0C53                                                              | 6311448719                        |
| 4UZACJDT3HCHZ3440 | 61BR0C53                                                              | 6311445330                        |
| 4UZACJDT3HCHZ5219 | 61BR0C53                                                              | 6311448074                        |
| 4UZACJDT3HCHZ5222 | 61BR0C53                                                              | 6311447851                        |
| 4UZACJDT3HCHZ9688 | 61BR0C53                                                              | 6311451269                        |
| 4UZACJDT3HCJA4733 | 61BR0C53                                                              | 6311453061                        |
| 4UZACJDT3HCJA7387 | 61BR0C53                                                              | 6311457917                        |
| 4UZACJDT3HCJB4615 | 61BR0C53                                                              | 6311462728                        |
| 4UZACJDT3HCJB8471 | 61BR0C53                                                              | 6311463612                        |
| 4UZACJDT3HCJB8826 | 61BR0C52                                                              | 6311462907                        |
| 4UZACJDT3HCJC3556 | 61BR0C52                                                              | 6311466900                        |
| 4UZACJDT3HCJC8451 | 61BR0C52                                                              | 6311469330                        |
| 4UZACJDT4HCHZ9683 | 61BR0C53                                                              | 6311451270                        |
| 4UZACJDT4HCJB4087 | 61BR0C53                                                              | 6311460516                        |
| 4UZACJDT4HCJC3551 | 61BR0C52                                                              | 6311466978                        |
| 4UZACJDT5HCHZ3441 | 61BR0C53                                                              | 6311445338                        |
| 4UZACJDT5HCHZ5223 | 61BR0C53                                                              | 6311447845                        |
| 4UZACJDT5HCJA7388 | 61BR0C53                                                              | 6311457919                        |
| 4UZACJDT5HCJB1232 | 61BR0C53                                                              | 6311459432                        |
| 4UZACJDT5HCJB3143 | 61BR0C53                                                              | 6311460918                        |
| 4UZACJDT5HCJB4616 | 61BR0C52                                                              | 6311462911                        |
| 4UZACJDT5HCJB6852 | 61BR0C53                                                              | 6311461867                        |
| 4UZACJDT5HCJB8827 | 61BR0C52                                                              | 6311462904                        |
| 4UZACJDT5HCJC3557 | 61BR0C52                                                              | 6311466892                        |
| 4UZACJDT6HCHZ1987 | 61BR0C53                                                              | 6311445675                        |
| 4UZACJDT6HCHZ1990 | 61BR0C53                                                              | 6311445684                        |
| 4UZACJDT6HCHZ2010 | 61BR0C53                                                              | 6311448708                        |
| 4UZACJDT6HCJB4088 | 61BR0C53                                                              | 6311460515                        |
| 4UZACJDT6HCJB8075 | 61BR0C52                                                              | 6311464342                        |
| 4UZACJDT6HCJC3034 | 61BR0C52                                                              | 6311466446                        |
| 4UZACJDT6HCJC3552 | 61BR0C52                                                              | 6311466971                        |
| 4UZACJDT7HCHZ1299 | 61BR0C53                                                              | 6311445326                        |
| 4UZACJDT7HCHZ3439 | 61BR0C53                                                              | 6311445328                        |

**Table 1. Affected Population (cont'd)**

| VIN               | TCM Assembly Number to load to<br>change 29080 from 254 to 33 | Transmission Serial Number |
|-------------------|---------------------------------------------------------------|----------------------------|
| 4UZACJDT7HCHZ3442 | 61BR0C53                                                      | 6311445340                 |
| 4UZACJDT7HCHZ5224 | 61BR0C53                                                      | 6311447850                 |
| 4UZACJDT7HCJA5402 | 61BR0C53                                                      | 6311454649                 |
| 4UZACJDT7HCJA7389 | 61BR0C53                                                      | 6311457920                 |
| 4UZACJDT7HCJB1233 | 61BR0C53                                                      | 6311459429                 |
| 4UZACJDT7HCJB3144 | 61BR0C53                                                      | 6311460919                 |
| 4UZACJDT7HCJB4083 | 61BR0C53                                                      | 6311460517                 |
| 4UZACJDT7HCJC3558 | 61BR0C52                                                      | 6311466899                 |
| 4UZACJDT7HCJC3561 | 61BR0C52                                                      | 6311466891                 |
| 4UZACJDT7HCJC4371 | 61BR0C52                                                      | 6311467588                 |
| 4UZACJDT8HCHZ1988 | 61BR0C53                                                      | 6311445680                 |
| 4UZACJDT8HCHZ1991 | 61BR0C53                                                      | 6311445674                 |
| 4UZACJDT8HCHZ2008 | 61BR0C53                                                      | 6311448718                 |
| 4UZACJDT8HCHZ2011 | 61BR0C53                                                      | 6311448721                 |
| 4UZACJDT8HCHZ9041 | 61BR0C53                                                      | 6311447848                 |
| 4UZACJDT8HCHZ9685 | 61BR0C53                                                      | 6311451267                 |
| 4UZACJDT8HCJA7384 | 61BR0C53                                                      | 6311457427                 |
| 4UZACJDT8HCJB8076 | 61BR0C52                                                      | 6311464338                 |
| 4UZACJDT8HCJB8823 | 61BR0C52                                                      | 6311462903                 |
| 4UZACJDT8HCJC3553 | 61BR0C52                                                      | 6311466974                 |
| 4UZACJDT9HCHZ3443 | 61BR0C53                                                      | 6311445339                 |
| 4UZACJDT9HCHZ5225 | 61BR0C53                                                      | 6311448075                 |
| 4UZACJDT9HCHZ8027 | 61BR0C53                                                      | 6311449952                 |
| 4UZACJDT9HCHZ8030 | 61BR0C53                                                      | 6311449950                 |
| 4UZACJDT9HCJA5403 | 61BR0C53                                                      | 6311454621                 |
| 4UZACJDT9HCJB1234 | 61BR0C53                                                      | 6311459431                 |
| 4UZACJDT9HCJB3145 | 61BR0C53                                                      | 6311460917                 |
| 4UZACJDT9HCJB4084 | 61BR0C53                                                      | 6311460514                 |
| 4UZACJDT9HCJC3559 | 61BR0C52                                                      | 6311466894                 |
| 4UZACJDT9HCJC3562 | 61BR0C52                                                      | 6311466977                 |
| 4UZACJDTXHCHZ1989 | 61BR0C53                                                      | 6311445677                 |
| 4UZACJDTXHCHZ1992 | 61BR0C53                                                      | 6311445682                 |
| 4UZACJDTXHCHZ2009 | 61BR0C53                                                      | 6311448720                 |
| 4UZACJDTXHCHZ2012 | 61BR0C53                                                      | 6311448722                 |

**Table 1. Affected Population (cont'd)**

| <b>VIN</b>        | <b>TCM Assembly Number to load to<br/>change 29080 from 254 to 33</b> | <b>Transmission Serial Number</b> |
|-------------------|-----------------------------------------------------------------------|-----------------------------------|
| 4UZACJDTXHCHZ5217 | 61BR0C53                                                              | 6311448065                        |
| 4UZACJDTXHCHZ5220 | 61BR0C53                                                              | 6311448072                        |
| 4UZACJDTXHCHZ9042 | 61BR0C53                                                              | 6311447846                        |
| 4UZACJDTXHCJA0906 | 61BR0C53                                                              | 6311451526                        |
| 4UZACJDTXHCJA3448 | 61BR0C53                                                              | 6311452291                        |
| 4UZACJDTXHCJA4731 | 61BR0C53                                                              | 6311453066                        |
| 4UZACJDTXHCJA7385 | 61BR0C53                                                              | 6311457010                        |
| 4UZACJDTXHCJB8824 | 61BR0C52                                                              | 6311462906                        |
| 4UZACJDTXHCJC3554 | 61BR0C52                                                              | 6311466897                        |
| 4UZACWDT0HCHZ9032 | 61BR0C53                                                              | 6311448063                        |
| 4UZACWDT1HCHZ3434 | 61BR0C53                                                              | 6311444473                        |
| 4UZACWDT1HCHZ9038 | 61BR0C53                                                              | 6311449097                        |
| 4UZACWDT1HCJB4075 | 61BR0C52                                                              | 6311460520                        |
| 4UZACWDT3HCHZ3435 | 61BR0C53                                                              | 6311443351                        |
| 4UZACWDT3HCJA4776 | 61BR0C53                                                              | 6311454624                        |
| 4UZACWDT4HCHZ9034 | 61BR0C53                                                              | 6311448058                        |
| 4UZACWDT4HCJB2398 | 61BR0C53                                                              | 6311457916                        |
| 4UZACWDT5HCHZ3436 | 61BR0C53                                                              | 6311443353                        |
| 4UZACWDT5HCJA4777 | 61BR0C53                                                              | 6311454627                        |
| 4UZACWDT6HCHZ9035 | 61BR0C53                                                              | 6311448059                        |
| 4UZACWDT7HCHZ3437 | 61BR0C53                                                              | 6311443352                        |
| 4UZACWDT7HCJC3069 | 61BR0C52                                                              | 6311466059                        |
| 4UZACWDT8HCHZ5214 | 61BR0C53                                                              | 6311447852                        |
| 4UZACWDT8HCHZ9036 | 61BR0C53                                                              | 6311449098                        |
| 4UZACWDT8HCJA4725 | 61BR0C53                                                              | 6311453050                        |
| 4UZACWDT8HCJB4073 | 61BR0C53                                                              | 6311459928                        |
| 4UZACWDT9HCHZ3438 | 61BR0C53                                                              | 6311443354                        |
| 4UZACWDT9HCHZ9031 | 61BR0C53                                                              | 6311448808                        |
| 4UZACWDT9HCJC5888 | 61BR0C52                                                              | 6311466025                        |
| 4UZACWDTXHCHZ5215 | 61BR0C53                                                              | 6311447130                        |
| 4UZACWDTXHCJA4726 | 61BR0C53                                                              | 6311453048                        |

## Service Procedure:



**NOTE:** An authorization number is required prior to performing the service procedure.

1. Obtain authorization number from Allison Transmission prior to performing this service procedure. Refer to the Authorization section.
2. Determine whether parameter 29080: J1939 SA: EBC1 Engine Retarder Selection is set to 254 (Autodetect) or 33 (Body Controller).
  - a. Stop the vehicle and place the transmission in Park/Neutral.
  - b. Connect Allison DOC® to the TCM. Take care to record all the current Customer Modifiable Constant (CMC) settings in the the TCM.
  - c. Select Calibration Information in the left side menu (refer to [Figure 1](#)).

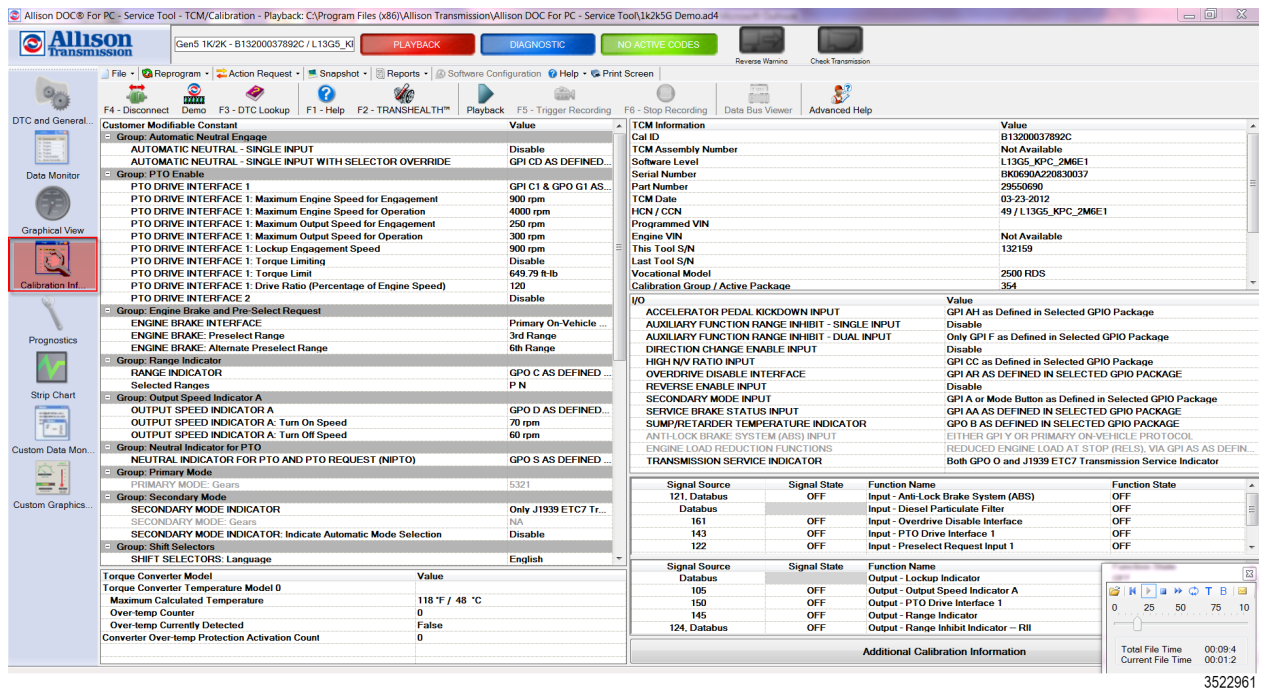


**Figure 1. Calibration Information**

- d. Select Additional Calibration Information at the bottom right of the screen (refer to [Figure 2](#)).

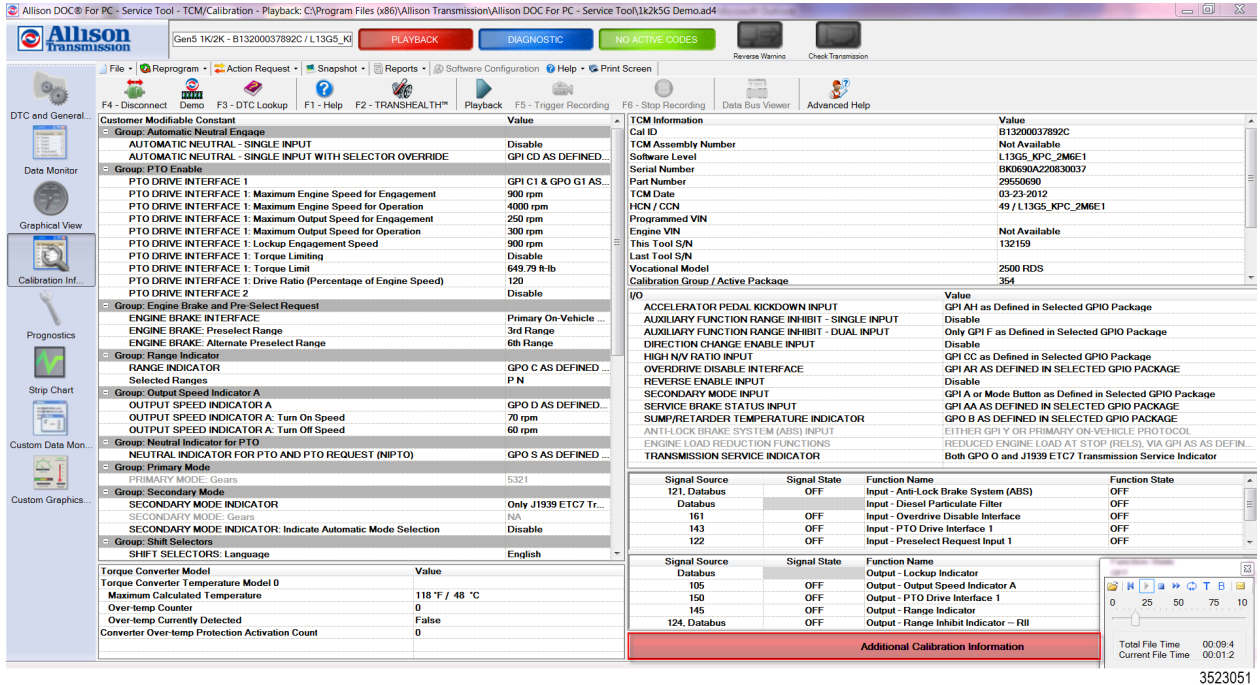


Figure 2. Additional Calibration Information

e. Read the value of 29080: J1939 SA: EBC1 Engine Retarder Selection (refer to Figure 3).

| Additional Calibration Information                                                                                        |  |                            |                                    |
|---------------------------------------------------------------------------------------------------------------------------|--|----------------------------|------------------------------------|
| Read-Only Calibration Information/Constants                                                                               |  | Value                      |                                    |
| VEHICLE ACCELERATION CONTROL (VAC)                                                                                        |  | Enable                     |                                    |
| NEUTRAL-TO-RANGE ASSIST (NRA)                                                                                             |  | Disable                    |                                    |
| PRIMARY MODE: Shift Schedule                                                                                              |  | Variable                   |                                    |
| PRIMARY MODE: Shift Speed                                                                                                 |  | 2600                       |                                    |
| SECONDARY MODE: Shift Schedule                                                                                            |  | Limiting                   |                                    |
| SECONDARY MODE: Shift Speed                                                                                               |  | 2600                       |                                    |
| SECONDARY MODE: Starting Range Override                                                                                   |  | NA                         |                                    |
| THROTTLE AND LOAD SOURCE                                                                                                  |  | Primary O...               |                                    |
| ENGINE GOVERNED SPEED                                                                                                     |  | 2600                       |                                    |
| TORQUE CONVERTER                                                                                                          |  | 12                         |                                    |
| RANGE INHIBIT INDICATOR: Enable Bulb Check...                                                                             |  | Yes                        |                                    |
| J1939 SA: AETC                                                                                                            |  | 00                         |                                    |
| J1939 SA: CCVS1 Brake Switch                                                                                              |  | 254                        |                                    |
| J1939 SA: CCVS1 Cruise Control Active                                                                                     |  | 254                        |                                    |
| J1939 SA: CCVS1 Cruise Control States                                                                                     |  | 254                        |                                    |
| J1939 SA: CCVS1 Parking Brake Switch                                                                                      |  | 254                        |                                    |
| J1939 SA: DPFC1 Diesel Particulate Filter Activ...                                                                        |  | 254                        |                                    |
| J1939 SA: EBC1 EBS Brake Switch                                                                                           |  | 254                        |                                    |
| J1939 SA: EBC1 Engine Retarder Selection                                                                                  |  | 254                        |                                    |
| J1939 SA: EEC2 Accelerator Pedal Kickdown S...                                                                            |  | 254                        |                                    |
| J1939 SA: EEC2 Accelerator Pedal Position 1                                                                               |  | 254                        |                                    |
| SEM/LRTP & Engine Torque Information                                                                                      |  | Value                      |                                    |
| SEM/LRTP Compatibility                                                                                                    |  | Compatible                 |                                    |
| SEM Validated                                                                                                             |  | ECM supports SEM           |                                    |
| LRTP Validated                                                                                                            |  | ECM supports LRTP          |                                    |
| SEM Enabled Status                                                                                                        |  | Enabled                    |                                    |
| LRTP Enabled Status                                                                                                       |  | Enabled                    |                                    |
| SEM Torque Reduction Status                                                                                               |  | Correct Response           |                                    |
| LRTP Torque Reduction Status                                                                                              |  | Correct Response           |                                    |
| Unapproved SEM Torque Reducing Device                                                                                     |  | Information Not Valid      |                                    |
| Unapproved LRTP Torque Reducing Dev...                                                                                    |  | Information Not Valid      |                                    |
| Max Eng. Torq. Allowed during loss of J...                                                                                |  | 615.86 ft-lb               |                                    |
| Peak Torque from AETC Message                                                                                             |  | 619.55 ft-lb               |                                    |
| J1939 SAs (Source Addresses)                                                                                              |  |                            |                                    |
| 00 - Engine #1                                                                                                            |  | 15 - Retarder - Engine     | 41 - Retarder, Exhaust, Eng #1     |
| 03 - Transmission #1                                                                                                      |  | 16 - Retarder - Driveline  | 42 - Headway Controller            |
| 04 - Transmission #2                                                                                                      |  | 17 - Cruise Control        | 49 - Cab Controller - Primary      |
| 05 - Shift Console, Primary                                                                                               |  | 23 - Instrument Cluster #1 | 61 - Exhaust Emission Controller   |
| 06 - Shift Console, Secondary                                                                                             |  | 33 - Body Controller       | 232 - Forward Road Image Processor |
| 254 - Autodetected (To view 'Autodetected' source addresses, connect to Data Bus Viewer and select J1939 as the protocol) |  |                            |                                    |
| Close                                                                                                                     |  |                            |                                    |

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**Figure 3. Engine Retarder Selection Value**

3. If 29080: J1939 SA: EBC1 Engine Retarder Selection is set to 254, proceed to Step 4. If 29080: J1939 SA: EBC1 Engine Retarder Selection is set to 33, proceed to Step 6.
4. J1939 SA: EBC1 Engine Retarder Selection = 254. Update the TCM calibration using Allison TCM Reflash™ as follows:
  - a. Confirm the vehicle is stopped and the transmission is in Park/Neutral.



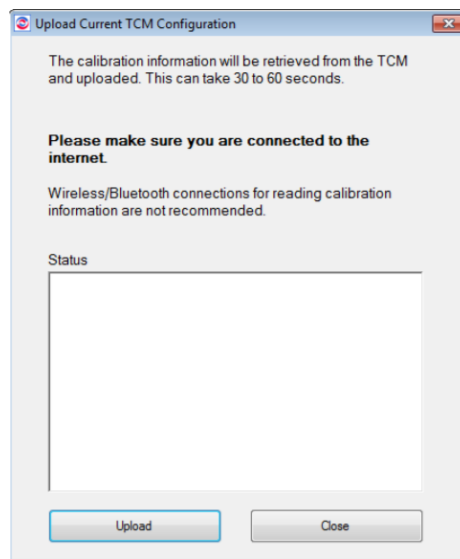
**NOTE:** Make sure all current CMC settings are recorded. After reflashing, the CMCs will be reset to factory defaults. Use the recorded values to set the CMCs back to the values as received.

- b. Close Allison DOC®.
  - c. Using Allison TCM Reflash™, reflash the TCM with the Road Ready TCM Assembly number corresponding to the VIN of the vehicle being serviced. Refer to Table 1 in the above "Affected Population" section. The system will correct the calibration setting in TCMs associated with the VINs that have been included in the DTNA notification.
5. After the TCM update, close Allison TCM Reflash™ and launch Allison DOC®. Repeat Steps 2.a through 2.e to confirm that the setting for J1939 SA: EBC1 Engine Retarder Selection is now showing 33. If the value is 33, skip Step 6 and proceed to Step 7. If J1939 SA: EBC1 Engine Retarder Selection is not 33, stop the service procedure and contact the Allison Technical Assistance Center (TAC) at 1-800-252-5283 for further instructions.



**NOTE:** If an engine warning light is set during this procedure, it can be turned off by starting the engine and letting it idle until the dash warning lights go off; run the engine up to 1500 RPM, return to idle, and turn the engine off. Repeat this procedure 3 to 5 times, depending on the engine manufacturer.

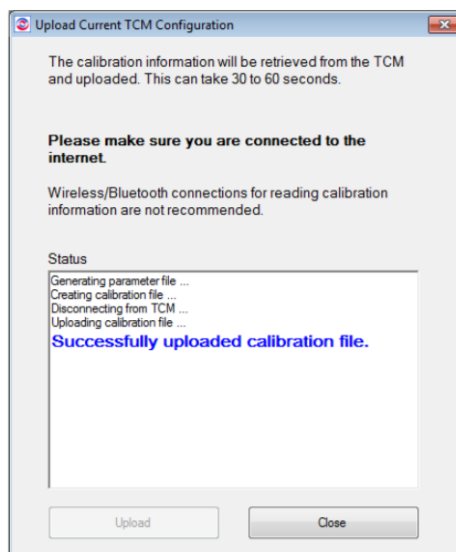
6. J1939 SA: EBC1 Engine Retarder Selection = 33. The TCM has the correct setting. Perform the following procedure to verify that the correct calibration setting is in the Allison system:
  - a. Confirm the vehicle is stopped and the transmission is in Park/Neutral.
  - b. Connect Allison DOC® to the TCM.
  - c. Display the Action Request menu.
  - d. Click on the Upload Current TCM Configuration menu item. The Upload Current TCM Configuration window displays as shown in [Figure 4](#).



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**Figure 4. Upload Current TCM Configuration**

- e. Click the “Upload” button. The Status box updates with progress information as shown in [Figure 5](#).

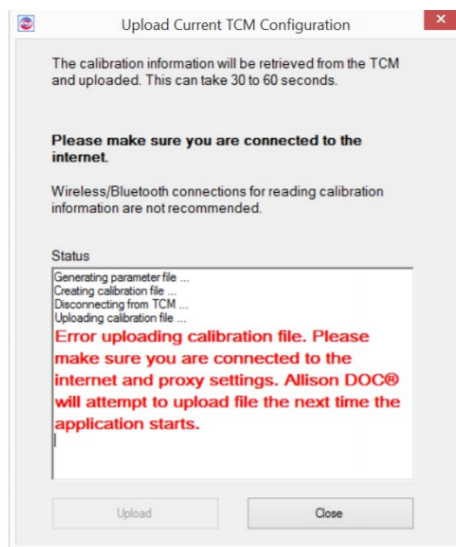


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**Figure 5. TCM Configuration – Status Box**



**NOTE:** If you are not connected to the internet, the error message displayed in [Figure 6](#) will appear. Allison DOC® will retrieve the file and attempt to upload the file the next time the application starts with internet access.



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**Figure 6. TCM Configuration – Error Message**

- f. Click the “Close” button after receiving indication of success or error message. The progress window for re-establishing TCM connection displays as shown in [Figure 7](#).

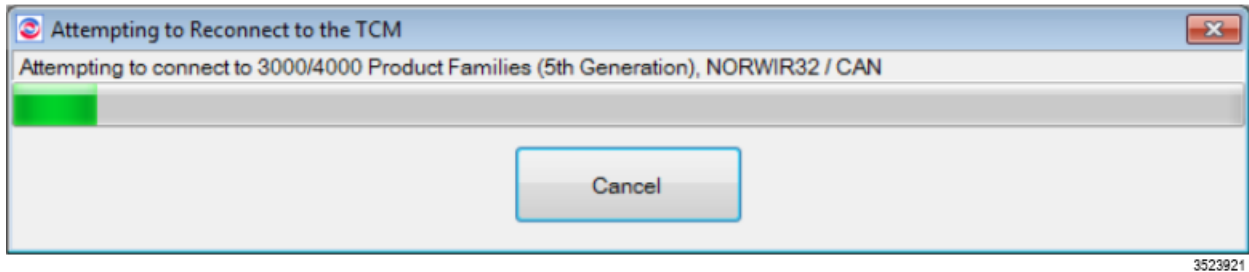


**Figure 7. TCM Configuration Progress Window**

7. Verify operation of the Engine Brake Preselect feature as follows:
  - a. With the Engine Brake enabled via the dash switch, operate the vehicle in the maximum range allowed by the calibration.
  - b. Let off of the throttle to signal to the engine brake controller that engine braking is requested.
  - c. When off of the throttle, verify that the transmission is preselecting down to the range or ranges determined by the "Customer Modifiable Constant (CMC) settings for Engine Brake: Minimum Preselect Range and Engine Brake: Alternate Minimum Preselect Range".
8. If internet access was not available during the service procedure, log onto Allison TCM Reflash™ as soon as internet access is available. Go to the File menu and select Upload Logs to return verification (VER) file(s) to the Allison database. This will allow confirmation of the new settings and ensure that future service events will use the proper settings.

#### **Authorization:**

Perform the following procedure to obtain an authorization number:

Log on to the Allison Transmission Extranet. Under the "Service" heading, click on "Field Action Authorization" and enter the transmission serial number.

If the requested serial number does not return an authorization number on the Allison Transmission Extranet, this indicates the recalibration has already been performed or the serial number is not covered under the DTNA's Service Bulletin.

If an authorization number is returned, record the authorization number and **include it in the claim narrative in Allison Warranty Administration and Analysis Reporting Environment (AWAARE) for reimbursement.**

#### **Reimbursement:**

Claims are to be submitted in AWAARE using the following information:

|                            |            |
|----------------------------|------------|
| Claim Type                 | 8          |
| Authorization Number       | XXXXXXXXXX |
| Special Activity Indicator | TT8025     |
| Primary Failed Part        | 70         |
| Complaint Code             | AT02       |
| Failure Code               | CC03       |

| Labor OP*                                                               | Labor Hours/TCM | Labor Operation                                                                                           |
|-------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------|
| 00096501                                                                | 1.0             | TCM Recalibration (Used when updating TCM calibration with TCM Reflash per Step 4) Recalibration          |
| 00096901                                                                | 0.5             | Troubleshooting and Diagnostics (Used to "Upload Current TCM Configuration" with Allison DOC® per Step 6) |
| *Choose the appropriate labor operation number based on work performed. |                 |                                                                                                           |



**NOTE:** The labor time of 1 hour is the maximum allowed to recalibrate the TCM. The labor time of 1/2 hour is the maximum allowed to perform the Allison DOC® calibration upload action request. Customer setting requests will not be covered by this program and will be at the customer's expense.



**NOTE:** The issue outlined in this document is not an Allison Transmission, Inc. defect in material or workmanship.



**NOTE:** Travel time is allowed only for multiple vehicles, and only once per location.