



Technical Service Bulletin

Technical Service Bulletin: TSB210187	Released Date: 16-Sep-2021
Fault Codes 3868, 4572 and 4677 Caused by Diesel Exhaust Fluid (DEF) Header Malfunction	

Fault Codes 3868, 4572 and 4677 Caused by Diesel Exhaust Fluid (DEF) Header Malfunction

Warranty Statement

The information in this document has no effect on present warranty coverage or repair practices, nor does it authorize TRP or Campaign actions.

Contents

Product Affected

- B6.7 CM2450 B155B
- L9 CM2350 L116B
- L9 CM2450 L126B
- X12 CM2350 X119B
- X12 CM2450 X137B
- X15 CM2350 X114B
- X15 CM2350 X116B
- X15 CM2450 X124B
- X15 CM2450 X134B

Issue

Symptom:

- A combination of one or all DEF header fault code(s) 3868, 4572 and/or 4677 are logged.
- Engine has a DEF header malfunction and replacement is **not** available.

Root Cause:

- DEF header replacement parts are **not** available and DEF header part shortages have necessitated the release of an ECM calibration code revision that reduces engine torque

and vehicle speed limits levels to allow for continued operation of the vehicle until a DEF header is available for final repair.

Verification

- Verify one or all DEF header datalink Fault Codes 3868, 4572 and/or 4677 are logged.
- Verify published troubleshooting has been completed.
- Verify DEF header part is **not** available for the repair.

Resolution

- Because of the lack of DEF header part availability, new ECM calibration codes are being made available that reduces the inducement levels when DEF header datalink communication faults are detected.
- Downloading this ECM calibration code **must** be filed in accordance with one of the appropriate TRPs. See TRP2484 or TRP2489 for further details.
 - TRP2489 – qualified engines installed in Navistar® chassis
 - TRP2484 – qualified engines installed in the following chassis types.
 - Tico
 - Additional chassis types will be added as they become eligible
- Unauthorized download of this ECM calibration code is considered tampering of emission control devices on Cummins products. Cummins Inc. prohibits tampering of emissions control devices on Cummins® products in any capacity. Reference Warranty Memo 1633 for additional details. See link below.

Note :

<https://quickserve.cummins.com/protected/files/qsol/en/warranty/memos/m1633.pdf>
(<https://quickserve.cummins.com/protected/files/qsol/en/warranty/memos/m1633.pdf>)

Customer Communication

- This communication is for information purposes **only** and to help provide clear communication to the customer.
 - Because of a global shortage of parts in the industry, as a result of unprecedented demand in the wake of the global pandemic and other events beyond the manufacturers' control, an ECM calibration code solution is being provided that reduces the inducement levels when DEF header datalink communication faults are detected. Fault codes 3868, 4572 and/or 4677 could be active but no amber check engine light illuminated indicating there is no communication between the engine and DEF header, however the vehicle will be allowed to operate normally without engine torque and vehicle speed limits.
 - DEF Level indicator will **not** provide an accurate reading and is **not** indicative of amount of DEF available in the tank. See Table 1.
 - The DEF fluid level in the tank will need to be manually inspected to allow proper vehicle operation.

- By agreeing to this repair, one is agreeing to make the vehicle available at a later date once DEF header parts are available. A future communication will be sent to make these arrangements.
- DEF quality, DEF temperature and DEF level in the electronic service tool will **not** read correctly.
- These products have new corresponding engine ECM calibrations codes that align with the repair.
 - A Fleet Count will be required to install the new ECM calibration code.
 - See appropriate table below for ECM calibration code mapping.
 - Fault Codes 3868, 4572 and/or 4677 will still be active.
- Running an engine that is **not** properly maintained such as without DEF or improper DEF quality are conditions that are consider customer abuse. Reference Responsibilities procedure in the Warranty Administration Manual.

Note :

<https://quickserve.cummins.com/qs3/pubsys2/xml/en/procedures/111/111-502-003.html>

(<https://quickserve.cummins.com/qs3/pubsys2/xml/en/procedures/111/111-502-003.html>)

Table 1, Changes to ECM Calibration Code with New ECM Calibration Code with No Torque Or Speed Inducement(s) with any Combination of Affected Fault Codes

Item	With Existing ECM Calibration Code	With New ECM Calibration Code
FC3868	Amber lamp and Malfunction indicator lamp (MIL)/Torque and speed inducement	No lamps/ no torque and speed inducement
FC4572	Amber lamp and MIL/Torque and speed inducement	No lamps/ no torque and speed inducement
FC4677	Amber lamp and MIL/Torque and speed inducement	No lamps/ no torque and speed inducement
DEF Level	DEF gauge is not accurate/Electronic service tool is not accurate	DEF gauge is not accurate/Electronic service tool is not accurate
DEF Temperature	Electronic service tool is not accurate	Electronic service tool is not accurate
DEF Quality	Electronic service tool is not accurate	Electronic service tool is not accurate

Table 2, ECM Calibration Code Mapping for X15 CM2350 X114B And X15 CM2350 X116B	
Existing ECM Calibration Code	New ECM Calibration Code
HD10001	HD10500
HD10002	HD10492
HD10005	HD10504
HD10008	HD10522
HD10009	HD10528
HD10011	HD10488
HD10012	HD10496
HD10014	HD10508
HD10024	HD10538
HD10025	HD10540
HD10030	HD10546
HD10031	HD10550
HD10032	HD10554
HD10036	HD10558
HD10037	HD10562
HD10038	HD10566
HD10043	HD10520
HD10044	HD10524
HD10045	HD10526
HD10048	HD10516
HD10050	HD10517
HD10054	HD10489
HD10055	HD10490
HD10056	HD10491
HD10057	HD10493
HD10058	HD10494
HD10059	HD10495
HD10060	HD10497
HD10061	HD10498
HD10062	HD10499

Table 2, ECM Calibration Code Mapping for X15 CM2350 X114B And X15 CM2350 X116B	
Existing ECM Calibration Code	New ECM Calibration Code
HD10072	HD10501
HD10073	HD10502
HD10074	HD10503
HD10075	HD10505
HD10076	HD10506
HD10077	HD10507
HD10078	HD10509
HD10079	HD10510
HD10080	HD10511
HD10087	HD10512
HD10089	HD10513
HD10091	HD10521
HD10094	HD10523
HD10097	HD10525
HD10100	HD10527
HD10103	HD10529
HD10114	HD10539
HD10115	HD10541
HD10126	HD10547
HD10127	HD10548
HD10128	HD10549
HD10129	HD10551
HD10130	HD10552
HD10131	HD10553
HD10132	HD10555
HD10133	HD10556
HD10134	HD10557
HD10144	HD10559
HD10145	HD10560
HD10146	HD10561

Table 2, ECM Calibration Code Mapping for X15 CM2350 X114B And X15 CM2350 X116B	
Existing ECM Calibration Code	New ECM Calibration Code
HD10147	HD10563
HD10148	HD10564
HD10149	HD10565
HD10150	HD10567
HD10151	HD10568
HD10152	HD10569
HD10162	HD10570
HD10164	HD10571
HD10169	HD10574
HD10170	HD10575
HD10171	HD10576
HD10172	HD10577
HD10173	HD10578
HD10174	HD10579
HD10175	HD10580
HD10176	HD10581
HD10177	HD10582
HD10178	HD10583
Table 2 Continued	
HD10179	HD10584
HD10180	HD10585
HD10181	HD10586
HD10182	HD10587
HD10183	HD10588
HD10184	HD10589
HD10185	HD10518
HD10186	HD10519
HD10187	HD10530
HD10188	HD10531
HD10189	HD10532

Table 2 Continued	
HD10190	HD10533
HD10191	HD10534
HD10192	HD10535
HD10193	HD10536
HD10194	HD10537
HD10195	HD10542
HD10196	HD10543
HD10197	HD10544
HD10198	HD10545
HD10199	HD10572
HD10200	HD10573
HD10201	HD10590
HD10202	HD10591
HD10203	HD10592
HD10204	HD10593
HD10205	HD10594
HD10206	HD10595
HD10207	HD10596
HD10208	HD10597
HD10209	HD10598
HD10210	HD10599
HD10211	HD10600
HD10212	HD10601
HD10213	HD10602
HD10214	HD10603
HD10215	HD10604
HD10216	HD10605
HD10217	HD10514
HD10218	HD10515
HD10219	HD10606
HD10220	HD10607
HD10221	HD10608

Table 2 Continued	
HD10222	HD10609
HD10223	HD10610
HD10224	HD10611
HD10225	HD10612
HD10226	HD10613
HD10227	HD10614
HD10228	HD10615
HD10229	HD10616
HD10230	HD10617
HD10231	HD10618
HD10232	HD10619
HD10233	HD10620
HD10234	HD10621
HD10235	HD10622
HD10236	HD10623
HD10237	HD10624
HD10238	HD10625
HD10239	HD10626
HD10240	HD10627
HD10241	HD10628
HD10242	HD10629
HD10243	HD10630
HD10244	HD10631
HD10245	HD10632
HD10246	HD10633
HD10247	HD10634
HD10248	HD10635
HD10249	HD10636
HD10250	HD10637
HD10251	HD10638
HD10252	HD10639
HD10253	HD10640

Table 2 Continued	
HD10254	HD10641
HD10255	HD10642
HD10256	HD10643
HD10257	HD10644
Table 2 Continued	
HD10258	HD10645
HD10259	HD10646
HD10260	HD10647
HD10261	HD10648
HD10262	HD10649
HD10263	HD10650
HD10264	HD10651
HD10265	HD10652
HD10266	HD10653
HD10267	HD10654
HD10268	HD10655
HD10269	HD10656
HD10270	HD10657
HD10271	HD10658
HD10272	HD10659
HD10273	HD10660
HD10274	HD10661
HD10275	HD10662
HD10276	HD10663
HD10277	HD10664
HD10278	HD10665
HD10279	HD10666
HD10280	HD10667
HD10281	HD10668
HD10282	HD10669
HD10283	HD10670
HD10284	HD10671

Table 2 Continued	
HD10285	HD10672
HD10286	HD10673
HD10287	HD10674
HD10288	HD10675
HD10289	HD10676
HD10290	HD10677
HD10291	HD10678
HD10292	HD10679
HD10293	HD10680
HD10294	HD10681
HD10295	HD10682
HD10296	HD10683
HD10297	HD10684
HD10298	HD10685
HD10299	HD10686
HD10300	HD10687
HD10301	HD10688
HD10302	HD10689
HD10303	HD10690
HD10304	HD10691
HD10305	HD10692
HD10306	HD10693
HD10309	HD10694
HD10310	HD10695
HD10313	HD10696
HD10314	HD10697
HD10317	HD10698
HD10318	HD10699
HD10321	HD10700
HD10322	HD10701
HD10325	HD10702
HD10326	HD10703

Table 2 Continued	
HD10329	HD10704
HD10330	HD10705
HD10331	HD10706
HD10332	HD10707
HD10333	HD10708
HD10334	HD10709
HD10335	HD10710
HD10336	HD10711
HD10337	HD10712
HD10338	HD10713
HD10339	HD10714
HD10340	HD10715
HD10341	HD10716
HD10342	HD10717
HD10343	HD10718
HD10344	HD10719
HD10345	HD10720
HD10346	HD10721
HD10347	HD10722
HD10348	HD10723
Table 2 Continued	
HD10349	HD10724
HD10350	HD10725
HD10351	HD10726
HD10352	HD10727
HD10353	HD10728
HD10354	HD10729
HD10355	HD10730
HD10356	HD10731
HD10357	HD10732
HD10358	HD10733
HD10359	HD10734

Table 2 Continued	
HD10360	HD10735
HD10361	HD10736
HD10362	HD10737
HD10363	HD10738
HD10364	HD10739
HD10365	HD10740
HD10366	HD10741
HD10367	HD10742
HD10368	HD10743
HD10369	HD10744
HD10370	HD10745
HD10371	HD10746
HD10372	HD10747
HD10373	HD10748
HD10374	HD10749
HD10375	HD10750
HD10376	HD10751
HD10377	HD10752
HD10378	HD10753
HD10379	HD10754
HD10380	HD10755
HD10381	HD10756
HD10382	HD10757
HD10383	HD10758
HD10384	HD10759
HD10385	HD10760
HD10386	HD10761
HD10387	HD10762
HD10388	HD10763
HD10389	HD10764
HD10390	HD10765
HD10391	HD10766

Table 2 Continued	
HD10392	HD10767
HD10393	HD10768
HD10394	HD10769
HD10395	HD10770
HD10396	HD10771
HD10397	HD10772
HD10398	HD10773
HD10399	HD10774
HD10400	HD10775
HD10401	HD10776
HD10402	HD10777
HD10403	HD10778
HD10404	HD10779
HD10405	HD10780
HD10406	HD10781
HD10407	HD10782
HD10408	HD10783
HD10409	HD10784
HD10410	HD10785
HD10411	HD10786
HD10412	HD10787
HD10413	HD10788
HD10414	HD10789
HD10415	HD10790
HD10416	HD10791
HD10417	HD10792
HD10418	HD10793
HD10419	HD10794
HD10420	HD10795
HD10421	HD10796
HD10422	HD10797
HD10423	HD10798

Table 2 Continued	
HD10424	HD10799
HD10425	HD10800
HD10426	HD10801
HD10427	HD10802
Table 2 Continued	
HD10428	HD10803
HD10429	HD10804
HD10430	HD10805
HD10431	HD10806
HD10432	HD10807
HD10433	HD10808
HD10434	HD10809
HD10435	HD10810
HD10436	HD10811
HD10437	HD10812
HD10438	HD10813
HD10439	HD10814
HD10440	HD10815
HD10441	HD10816
HD10442	HD10817
HD10443	HD10818
HD10444	HD10819
HD10445	HD10820
HD10446	HD10821
HD10447	HD10822
HD10448	HD10823
HD10449	HD10824
HD10450	HD10825
HD10451	HD10826
HD10452	HD10827
HD10455	HD10828
HD10456	HD10829

Table 2 Continued	
HD10457	HD10830
HD10458	HD10831
HD10459	HD10832
HD10460	HD10833
HD10461	HD10834
HD10462	HD10835
HD10463	HD10836
HD10464	HD10837
HD10465	HD10838
HD10466	HD10839
HD10467	HD10840
HD10468	HD10841
HD10469	HD10842
HD10470	HD10843
HD10471	HD10844
HD10472	HD10845
HD10473	HD10846
HD10474	HD10847
HD10475	HD10848
HD10476	HD10849
HD10477	HD10850
HD10478	HD10851
HD10479	HD10852
HD10480	HD10853
HD10481	HD10854
HD10482	HD10855
HD10483	HD10856
HD10484	HD10857
HD10485	HD10858
HD10486	HD10859
Table 3, ECM Calibration Code Mapping for X15 CM2450 X124B and X15 CM2450 X134B	

Existing ECM Calibration Code Mapping for New ECM Calibration Code	X15 CM2450, X1124B and X15 CM2450
X134B	

Existing ECM Calibration Code	New ECM Calibration Code
KW10001	KW10629
KW10002	KW10630
KW10009	KW10631
KW10010	KW10632
KW10011	KW10633
KW10012	KW10634
KW10013	KW10635
KW10014	KW10636
KW10015	KW10637
KW10016	KW10638
KW10017	KW10639
KW10018	KW10640
KW10019	KW10641
KW10020	KW10642
KW10021	KW10643
KW10022	KW10644
KW10023	KW10645
KW10024	KW10646
KW10025	KW10647
KW10026	KW10648
KW10027	KW10649
KW10028	KW10650
KW10029	KW10651
KW10030	KW10652
KW10031	KW10569
KW10032	KW10570
KW10033	KW10653
KW10034	KW10654
KW10035	KW10675
KW10036	KW10676

Table 3, ECM Calibration Code Mapping for X15 CM2450 X124B and X15 CM2450 X134B

Existing ECM Calibration Code	New ECM Calibration Code
KW10037	KW10681
KW10038	KW10682
KW10039	KW10687
KW10040	KW10688
KW10041	KW10742
KW10042	KW10743
KW10043	KW10750
KW10044	KW10751
KW10045	KW10764
KW10046	KW10765
KW10047	KW10655
KW10048	KW10656
KW10049	KW10657
KW10050	KW10658
KW10051	KW10659
KW10052	KW10660
KW10053	KW10661
KW10054	KW10662
KW10055	KW10663
KW10056	KW10664
KW10057	KW10665
KW10058	KW10666
KW10059	KW10667
KW10060	KW10668
KW10061	KW10669
KW10062	KW10670
KW10063	KW10671
KW10064	KW10672
KW10065	KW10673
KW10066	KW10674

Table 3, ECM Calibration Code Mapping for X15 CM2450 X124B and X15 CM2450 X134B

Existing ECM Calibration Code	New ECM Calibration Code
KW10067	KW10677
KW10068	KW10679
KW10069	KW10680
KW10070	KW10683
KW10071	KW10685
KW10072	KW10686
KW10073	KW10689
KW10074	KW10740
KW10075	KW10741
KW10076	KW10744
KW10077	KW10748
KW10078	KW10749
KW10079	KW10752
KW10080	KW10762
KW10081	KW10763
KW10082	KW10766
KW10083	KW10678
Table 3 Continued	
KW10084	KW10684
KW10085	KW10690
KW10086	KW10745
KW10087	KW10753
KW10088	KW10767
KW10091	KW10572
KW10092	KW10573
KW10093	KW10693
KW10094	KW10694
KW10095	KW10695
KW10096	KW10696
KW10097	KW10697

Table 3 Continued	
KW10098	KW10698
KW10099	KW10699
KW10100	KW10700
KW10101	KW10701
KW10102	KW10702
KW10103	KW10703
KW10104	KW10704
KW10105	KW10705
KW10106	KW10706
KW10107	KW10707
KW10108	KW10708
KW10109	KW10709
KW10110	KW10710
KW10111	KW10711
KW10112	KW10712
KW10113	KW10713
KW10114	KW10714
KW10115	KW10715
KW10116	KW10716
KW10117	KW10717
KW10118	KW10718
KW10119	KW10719
KW10120	KW10720
KW10121	KW10721
KW10122	KW10722
KW10123	KW10723
KW10124	KW10724
KW10125	KW10725
KW10126	KW10726
KW10127	KW10727
KW10128	KW10728
KW10129	KW10729

Table 3 Continued	
KW10130	KW10730
KW10131	KW10731
KW10132	KW10732
KW10133	KW10734
KW10134	KW10735
KW10135	KW10737
KW10136	KW10738
KW10137	KW10575
KW10138	KW10576
KW10147	KW10578
KW10148	KW10579
KW10149	KW10581
KW10150	KW10582
KW10151	KW10583
KW10152	KW10584
KW10161	KW10754
KW10162	KW10755
KW10163	KW10756
KW10164	KW10757
KW10165	KW10759
KW10166	KW10760
KW10167	KW10768
KW10168	KW10769
KW10169	KW10603
KW10170	KW10604
KW10171	KW10606
KW10172	KW10607
KW10173	KW10609
KW10174	KW10610
KW10175	KW10611
KW10176	KW10612
KW10177	KW10613

Table 3 Continued	
KW10178	KW10614
Table 3 Continued	
KW10179	KW10605
KW10180	KW10571
KW10181	KW10733
KW10182	KW10736
KW10183	KW10739
KW10184	KW10577
KW10185	KW10580
KW10186	KW10585
KW10187	KW10608
KW10188	KW10615
KW10189	KW10758
KW10190	KW10761
KW10191	KW10770
KW10192	KW10691
KW10193	KW10692
KW10194	KW10746
KW10195	KW10747
KW10196	KW10771
KW10197	KW10772
KW10198	KW10574
KW10199	KW10445
KW10200	KW10446
KW10201	KW10447
KW10202	KW10448
KW10203	KW10449
KW10204	KW10450
KW10205	KW10451
KW10206	KW10452
KW10207	KW10453
KW10208	KW10454

Table 3 Continued	
KW10209	KW10455
KW10210	KW10456
KW10211	KW10457
KW10212	KW10458
KW10213	KW10459
KW10214	KW10460
KW10215	KW10461
KW10216	KW10462
KW10217	KW10463
KW10218	KW10464
KW10219	KW10465
KW10220	KW10466
KW10221	KW10467
KW10222	KW10468
KW10223	KW10469
KW10224	KW10470
KW10225	KW10471
KW10226	KW10472
KW10227	KW10473
KW10228	KW10474
KW10229	KW10475
KW10230	KW10476
KW10231	KW10477
KW10232	KW10478
KW10233	KW10479
KW10234	KW10480
KW10235	KW10481
KW10236	KW10482
KW10237	KW10483
KW10238	KW10484
KW10239	KW10485
KW10240	KW10486

Table 3 Continued	
KW10241	KW10487
KW10242	KW10488
KW10243	KW10489
KW10244	KW10490
KW10245	KW10491
KW10246	KW10492
KW10247	KW10493
KW10248	KW10494
KW10249	KW10495
KW10250	KW10496
KW10251	KW10497
KW10252	KW10498
KW10253	KW10499
KW10254	KW10500
KW10255	KW10501

Table 3 Continued	
KW10256	KW10502
KW10257	KW10503
KW10258	KW10504
KW10259	KW10505
KW10260	KW10506
KW10274	KW10773
KW10275	KW10774
KW10276	KW10775
KW10277	KW10776
KW10278	KW10777
KW10279	KW10778
KW10280	KW10779
KW10281	KW10780
KW10282	KW10781
KW10283	KW10782
KW10284	KW10783

Table 3 Continued	
KW10285	KW10784
KW10286	KW10785
KW10287	KW10786
KW10288	KW10787
KW10289	KW10788
KW10290	KW10789
KW10291	KW10790
KW10292	KW10791
KW10293	KW10792
KW10294	KW10793
KW10295	KW10794
KW10296	KW10795
KW10297	KW10796
KW10298	KW10797
KW10299	KW10798
KW10300	KW10799
KW10301	KW10800
KW10302	KW10801
KW10303	KW10802
KW10304	KW10803
KW10305	KW10804
KW10306	KW10805
KW10307	KW10806
KW10308	KW10807
KW10309	KW10808
KW10310	KW10809
KW10311	KW10810
KW10312	KW10811
KW10313	KW10812
KW10314	KW10813
KW10315	KW10814
KW10316	KW10815

Table 3 Continued	
KW10317	KW10816
KW10318	KW10817
KW10319	KW10818
KW10320	KW10819
KW10321	KW10820
KW10322	KW10821
KW10323	KW10822
KW10324	KW10823
KW10325	KW10824
KW10326	KW10825
KW10327	KW10826
KW10328	KW10827
KW10329	KW10828
KW10330	KW10829
KW10331	KW10830
KW10332	KW10831
KW10333	KW10832
KW10334	KW10833
KW10335	KW10834
KW10336	KW10507
KW10337	KW10508
KW10338	KW10509
KW10339	KW10510
KW10340	KW10511
KW10341	KW10512
KW10342	KW10513
KW10343	KW10514
KW10344	KW10515
KW10345	KW10516
Table 3 Continued	
KW10346	KW10517
KW10347	KW10518

Table 3 Continued	
KW10348	KW10519
KW10349	KW10520
KW10350	KW10521
KW10351	KW10522
KW10352	KW10523
KW10353	KW10524
KW10354	KW10525
KW10355	KW10526
KW10356	KW10527
KW10357	KW10528
KW10358	KW10529
KW10359	KW10530
KW10360	KW10531
KW10361	KW10532
KW10362	KW10533
KW10363	KW10534
KW10364	KW10535
KW10365	KW10536
KW10366	KW10537
KW10367	KW10538
KW10368	KW10539
KW10369	KW10540
KW10370	KW10541
KW10371	KW10542
KW10372	KW10543
KW10373	KW10544
KW10374	KW10545
KW10375	KW10546
KW10376	KW10547
KW10377	KW10548
KW10378	KW10549
KW10379	KW10550

Table 3 Continued	
KW10380	KW10551
KW10381	KW10552
KW10382	KW10553
KW10383	KW10554
KW10384	KW10555
KW10385	KW10556
KW10386	KW10557
KW10387	KW10558
KW10388	KW10559
KW10389	KW10560
KW10390	KW10561
KW10391	KW10562
KW10392	KW10563
KW10393	KW10564
KW10394	KW10565
KW10395	KW10566
KW10396	KW10567
KW10397	KW10568
KW10398	KW10616
KW10399	KW10617
KW10400	KW10618
KW10401	KW10619
KW10402	KW10620
KW10403	KW10621
KW10404	KW10622
KW10405	KW10623
KW10406	KW10624
KW10407	KW10625
KW10408	KW10626
KW10409	KW10627
KW10410	KW10628
KW10411	KW10586

Table 3 Continued	
KW10412	KW10587
KW10413	KW10588
KW10414	KW10589
KW10415	KW10590
KW10416	KW10591
KW10417	KW10592
KW10418	KW10593
KW10419	KW10594
KW10420	KW10595
KW10421	KW10596
KW10422	KW10597

Table 3 Continued	
KW10423	KW10598
KW10424	KW10599
KW10425	KW10600
KW10426	KW10601
KW10427	KW10602

Table 4, ECM Calibration Code Mapping for X12 CM2350 X119B	
Existing ECM Calibration Code	New ECM Calibration Code
IR10009	IR10205
IR10010	IR10206
IR10011	IR10207
IR10012	IR10208
IR10013	IR10209
IR10014	IR10210
IR10015	IR10211
IR10016	IR10212
IR10017	IR10213
IR10018	IR10214
IR10019	IR10215
IR10020	IR10216
IR10021	IR10217

Table 4, ECM Calibration Code Mapping for X12 CM2350 X119B	
Existing ECM Calibration Code	New ECM Calibration Code
IR10022	IR10218
IR10023	IR10219
IR10024	IR10220
IR10025	IR10221
IR10026	IR10222
IR10027	IR10223
IR10028	IR10224
IR10029	IR10225
IR10030	IR10226
IR10031	IR10227
IR10032	IR10228
IR10033	IR10229
IR10034	IR10230
IR10035	IR10231
IR10036	IR10232
IR10037	IR10233
IR10038	IR10234
IR10039	IR10235
IR10040	IR10236
IR10041	IR10237
IR10042	IR10238
IR10043	IR10239
IR10044	IR10240
IR10005	IR10241
IR10006	IR10242
IR10045	IR10243
IR10046	IR10244
IR10049	IR10245
IR10050	IR10246
IR10053	IR10247
IR10054	IR10248

Table 4, ECM Calibration Code Mapping for X12 CM2350 X119B	
Existing ECM Calibration Code	New ECM Calibration Code
IR10055	IR10249
IR10056	IR10250
IR10061	IR10251
IR10062	IR10252
IR10065	IR10253
IR10066	IR10254
IR10069	IR10255
IR10070	IR10256
IR10073	IR10257
IR10074	IR10258
IR10077	IR10259
IR10078	IR10260
IR10081	IR10261
IR10082	IR10262
IR10085	IR10263
IR10087	IR10264
IR10093	IR10265
IR10094	IR10266
IR10097	IR10267
IR10098	IR10268
IR10101	IR10269
IR10133	IR10270
IR10102	IR10271
IR10134	IR10272
IR10105	IR10273
IR10106	IR10274
IR10107	IR10275
IR10108	IR10276
IR10109	IR10277
IR10110	IR10278
IR10111	IR10279

Table 4, ECM Calibration Code Mapping for X12 CM2350 X119B	
Existing ECM Calibration Code	New ECM Calibration Code
IR10112	IR10280
IR10115	IR10281
IR10116	IR10282
Table 4 Continued	
IR10119	IR10283
IR10120	IR10284
IR10123	IR10285
IR10124	IR10286
IR10129	IR10287
IR10130	IR10288
IR10135	IR10289
IR10136	IR10290
IR10137	IR10291
IR10138	IR10292
IR10139	IR10293
IR10140	IR10294
IR10141	IR10295
IR10142	IR10296
IR10143	IR10297
IR10144	IR10298
IR10145	IR10299
IR10146	IR10300
IR10147	IR10301
IR10148	IR10302
IR10149	IR10303
IR10150	IR10304
IR10151	IR10305
IR10152	IR10306
IR10153	IR10307
IR10154	IR10308
IR10155	IR10309

Table 4 Continued	
IR10156	IR10310
IR10157	IR10311
IR10158	IR10312
IR10159	IR10313
IR10160	IR10314
IR10161	IR10315
IR10162	IR10316
IR10163	IR10317
IR10164	IR10318
IR10165	IR10319
IR10166	IR10320
IR10167	IR10321
IR10168	IR10322
IR10169	IR10323
IR10170	IR10324
IR10171	IR10325
IR10172	IR10326
IR10173	IR10327
IR10174	IR10328
IR10175	IR10329
IR10176	IR10330
IR10177	IR10331
IR10178	IR10332
IR10179	IR10333
IR10180	IR10334
IR10181	IR10335
IR10182	IR10336
IR10183	IR10337
IR10184	IR10338
IR10185	IR10339
IR10186	IR10340
IR10187	IR10341

Table 4 Continued	
IR10188	IR10342
IR10189	IR10343
IR10190	IR10344
IR10191	IR10345
IR10192	IR10346
IR10193	IR10347
IR10194	IR10348
IR10195	IR10349
IR10196	IR10350
IR10197	IR10351
IR10198	IR10352
IR10199	IR10353
IR10200	IR10354
IR10201	IR10355
IR10202	IR10356
IR10203	IR10357
IR10204	IR10358
Table 5, ECM Calibration Code Mapping for X12 CM2450 X137B	
Existing ECM Calibration Code	New ECM Calibration Code
MH10001	MH10103
MH10003	MH10104
MH10005	MH10079
MH10006	MH10080
MH10007	MH10081
MH10008	MH10082
MH10009	MH10083
MH10010	MH10084
MH10011	MH10085
MH10012	MH10086
MH10013	MH10087
MH10014	MH10088
MH10015	MH10089

Table 5, ECM Calibration Code Mapping for X12 CM2450 X137B	
MH10016	MH10090
MH10017	MH10091
MH10018	MH10092
MH10019	MH10093
MH10020	MH10094
MH10021	MH10095
MH10022	MH10096
MH10023	MH10097
MH10024	MH10098
MH10025	MH10099
MH10026	MH10100
MH10027	MH10101
MH10028	MH10102
MH10029	MH10105
MH10030	MH10106
MH10031	MH10107
MH10032	MH10108
MH10033	MH10109
MH10034	MH10110
MH10035	MH10111
MH10036	MH10112
MH10037	MH10113
MH10038	MH10114
MH10039	MH10115
MH10040	MH10116
MH10041	MH10117
MH10042	MH10118
MH10043	MH10119
MH10044	MH10120
MH10045	MH10121
MH10046	MH10122
MH10047	MH10123

Table 5, ECM Calibration Code Mapping for X12 CM2450 X137B	
MH10048	MH10124
MH10049	MH10125
MH10050	MH10126
MH10051	MH10127
MH10052	MH10128
MH10053	MH10129
MH10054	MH10130
MH10055	MH10131
MH10056	MH10132
MH10057	MH10133
MH10058	MH10134
MH10059	MH10135
MH10060	MH10136
MH10061	MH10137
MH10062	MH10138
MH10063	MH10139
MH10064	MH10140
MH10065	MH10141
MH10066	MH10142
MH10067	MH10143
MH10068	MH10144
MH10069	MH10145
MH10070	MH10146
MH10071	MH10147
MH10072	MH10148
MH10073	MH10149
MH10074	MH10150
MH10075	MH10151
MH10076	MH10152
MH10077	MH10153
MH10078	MH10154
Table 6, ECM Calibration Code Mapping for L9 CM2350 L116B	

Existing ECM Calibration Code Mapping for New ECM Calibration Code

Existing ECM Calibration Code	New ECM Calibration Code
HB80001	HB80824
HB80002	HB80872
HB80003	HB80890
HB80004	HB80911
HB80005	HB80930
HB80006	HB80949
HB80007	HB81003
HB80010	HB80825
HB80011	HB80826
HB80012	HB80820
HB80013	HB80821
HB80014	HB80822
HB80015	HB80827
HB80016	HB80823
HB80017	HB80840
HB80018	HB80841
HB80019	HB80842
HB80020	HB80836
HB80021	HB80837
HB80022	HB80838
HB80023	HB80843
HB80024	HB80839
HB80025	HB80856
HB80026	HB80857
HB80027	HB80858
HB80028	HB80852
HB80029	HB80853
HB80030	HB80854
HB80031	HB80859
HB80032	HB80855
HB80033	HB80873

Table 6, ECM Calibration Code Mapping for L9 CM2350 L116B

Existing ECM Calibration Code	New ECM Calibration Code
HB80034	HB80874
HB80035	HB80868
HB80036	HB80869
HB80037	HB80870
HB80038	HB80875
HB80039	HB80871
HB80040	HB80891
HB80041	HB80892
HB80042	HB80884
HB80043	HB80885
HB80044	HB80886
HB80045	HB80893
HB80046	HB80887
HB80047	HB80903
HB80048	HB80902
HB80049	HB80912
HB80050	HB80913
HB80051	HB80906
HB80052	HB80907
HB80053	HB80908
HB80054	HB80914
HB80055	HB80909
HB80056	HB80931
HB80057	HB80932
HB80058	HB80924
HB80059	HB80925
HB80060	HB80926
HB80061	HB80933
HB80062	HB80927
HB80063	HB80950
HB80064	HB80951

Table 6, ECM Calibration Code Mapping for L9 CM2350 L116B

Existing ECM Calibration Code	New ECM Calibration Code
HB80065	HB80943
HB80066	HB80944
HB80067	HB80945
HB80068	HB80952
HB80069	HB80946
HB80070	HB80968
HB80071	HB80969
HB80072	HB80970
HB80073	HB80962
HB80074	HB80963
HB80075	HB80964
HB80076	HB80971
HB80077	HB80965
HB80078	HB80986
HB80079	HB80987
HB80080	HB80988

Table 6 Continued

HB80081	HB80981
HB80082	HB80982
HB80083	HB80983
HB80084	HB80989
HB80085	HB80984
HB80086	HB81004
HB80087	HB80999
HB80088	HB81000
HB80097	HB80910
HB80098	HB80928
HB80099	HB80947
HB80100	HB80966
HB80101	HB80985
HB80102	HB81001

Table 6 Continued	
HB80104	HB80828
HB80105	HB80829
HB80106	HB80830
HB80107	HB80831
HB80108	HB80832
HB80109	HB80833
HB80110	HB80834
HB80111	HB80835
HB80112	HB80844
HB80113	HB80845
HB80114	HB80846
HB80115	HB80847
HB80116	HB80848
HB80117	HB80849
HB80118	HB80850
HB80119	HB80851
HB80120	HB80860
HB80121	HB80861
HB80122	HB80862
HB80123	HB80863
HB80124	HB80864
HB80125	HB80865
HB80126	HB80866
HB80127	HB80867
HB80128	HB80876
HB80129	HB80877
HB80130	HB80878
HB80131	HB80879
HB80132	HB80880
HB80133	HB80881
HB80134	HB80882
HB80135	HB80883

Table 6 Continued	
HB80136	HB80894
HB80137	HB80895
HB80138	HB80896
HB80139	HB80897
HB80140	HB80898
HB80141	HB80899
HB80142	HB80900
HB80143	HB80901
HB80144	HB80904
HB80145	HB80905
HB80146	HB80915
HB80147	HB80916
HB80148	HB80917
HB80149	HB80918
HB80150	HB80919
HB80151	HB80920
HB80152	HB80921
HB80153	HB80922
HB80154	HB80923
HB80155	HB80934
HB80156	HB80935
HB80157	HB80936
HB80158	HB80937
HB80159	HB80938
HB80160	HB80939
HB80161	HB80940
HB80162	HB80941
HB80163	HB80942
HB80164	HB80953
HB80165	HB80954
HB80166	HB80955
HB80167	HB80956

Table 6 Continued	
HB80168	HB80957
HB80169	HB80958
HB80170	HB80959
HB80171	HB80960
HB80172	HB80961
HB80173	HB80972
HB80174	HB80973
HB80175	HB80974
HB80176	HB80975
HB80177	HB80976
HB80178	HB80977
HB80179	HB80978
HB80180	HB80979
HB80181	HB80980
HB80182	HB80990
HB80183	HB80991
HB80184	HB80992
HB80185	HB80993
HB80186	HB80994
HB80187	HB80995
HB80188	HB80996
HB80189	HB80997
HB80190	HB80998
HB80191	HB81005
HB80192	HB81006
HB80193	HB81007
HB80194	HB81008
HB80195	HB81009
HB80288	HB80617
HB80289	HB80618
HB80290	HB80619
HB80291	HB80620

Table 6 Continued	
HB80292	HB80621
HB80293	HB80622
HB80294	HB80623
HB80295	HB80624
HB80296	HB80625
HB80297	HB80626
HB80298	HB80627
HB80299	HB80628
HB80300	HB80629
HB80301	HB80630
HB80302	HB80631
HB80303	HB80632
HB80304	HB80633
HB80305	HB80634
HB80306	HB80635
HB80307	HB80636
HB80308	HB80637
HB80309	HB80638
HB80310	HB80639
HB80311	HB80640
HB80312	HB80641
HB80313	HB80642
HB80314	HB80643
HB80315	HB80644
HB80316	HB80645
HB80317	HB80646
HB80318	HB80647
HB80319	HB80648
HB80320	HB80649
HB80321	HB80650
HB80322	HB80651
HB80323	HB80652

Table 6 Continued	
HB80324	HB80655
HB80325	HB80656
HB80326	HB80657
HB80327	HB80658
HB80328	HB80659
HB80329	HB80660
HB80330	HB80662
HB80331	HB80663
HB80332	HB80661
HB80333	HB80664
HB80334	HB80665
HB80335	HB80666
HB80336	HB80667
HB80337	HB80668

Table 6 Continued	
HB80338	HB80669
HB80339	HB80671
HB80340	HB80672
HB80341	HB80670
HB80342	HB80674
HB80343	HB80675
HB80344	HB80676
HB80345	HB80677
HB80346	HB80678
HB80347	HB80679
HB80348	HB80681
HB80349	HB80682
HB80350	HB80680
HB80351	HB80685
HB80352	HB80686
HB80353	HB80687
HB80354	HB80688

Table 6 Continued	
HB80355	HB80689
HB80356	HB80690
HB80357	HB80692
HB80358	HB80693
HB80359	HB80691
HB80360	HB80696
HB80361	HB80697
HB80362	HB80698
HB80363	HB80699
HB80364	HB80700
HB80365	HB80701
HB80366	HB80703
HB80367	HB80704
HB80368	HB80702
HB80369	HB80705
HB80370	HB80706
HB80371	HB80707
HB80372	HB80708
HB80373	HB80709
HB80374	HB80710
HB80375	HB80711
HB80376	HB80713
HB80377	HB80714
HB80378	HB80888
HB80379	HB80929
HB80380	HB80948
HB80381	HB80967
HB80382	HB81002
HB80383	HB80653
HB80384	HB80673
HB80385	HB80683
HB80386	HB80694

Table 6 Continued	
HB80387	HB80712
HB80388	HB80719
HB80389	HB80720
HB80390	HB80721
HB80391	HB80722
HB80392	HB80723
HB80393	HB80724
HB80394	HB80725
HB80395	HB80726
HB80396	HB80727
HB80397	HB80728
HB80398	HB80729
HB80399	HB80730
HB80400	HB80731
HB80401	HB80732
HB80402	HB80733
HB80403	HB80734
HB80404	HB80735
HB80405	HB80736
HB80406	HB80737
HB80407	HB80738
HB80408	HB80739
HB80409	HB80740
HB80410	HB80741
HB80411	HB80742
HB80412	HB80743
HB80413	HB80744
HB80414	HB80745
HB80415	HB80746
Table 6 Continued	
HB80416	HB80747
HB80417	HB80748

Table 6 Continued	
HB80418	HB80749
HB80419	HB80750
HB80420	HB80751
HB80421	HB80752
HB80422	HB80753
HB80423	HB80754
HB80424	HB80755
HB80425	HB80757
HB80426	HB80758
HB80427	HB80759
HB80428	HB80760
HB80429	HB80761
HB80430	HB80762
HB80431	HB80763
HB80432	HB80764
HB80433	HB80765
HB80434	HB80766
HB80435	HB80767
HB80436	HB80768
HB80437	HB80769
HB80438	HB80770
HB80439	HB80771
HB80440	HB80772
HB80441	HB80773
HB80442	HB80774
HB80443	HB80775
HB80444	HB80777
HB80445	HB80778
HB80446	HB80779
HB80447	HB80780
HB80448	HB80781
HB80449	HB80782

Table 6 Continued	
HB80450	HB80783
HB80451	HB80784
HB80452	HB80785
HB80453	HB80786
HB80454	HB80787
HB80455	HB80788
HB80456	HB80789
HB80457	HB80790
HB80458	HB80791
HB80459	HB80792
HB80460	HB80793
HB80461	HB80794
HB80462	HB80795
HB80463	HB80796
HB80464	HB80797
HB80465	HB80798
HB80466	HB80799
HB80467	HB80800
HB80468	HB80801
HB80469	HB80802
HB80470	HB80803
HB80471	HB80804
HB80472	HB80805
HB80473	HB80806
HB80474	HB80807
HB80475	HB80808
HB80476	HB80809
HB80477	HB80810
HB80478	HB80811
HB80479	HB80812
HB80480	HB80813
HB80481	HB80814

Table 6 Continued	
HB80482	HB80815
HB80483	HB80816
HB80484	HB80817
HB80485	HB80818
HB80486	HB80819
HB80491	HB80715
HB80492	HB80716
HB80493	HB80717
HB80494	HB80718
HB80499	HB81010
HB80500	HB81011
HB80509	HB81012

Table 6 Continued	
HB80510	HB81013
HB80511	HB81014
HB80512	HB81015
HB80513	HB81016
HB80514	HB81017
HB80515	HB81018
HB80516	HB81019
HB80517	HB81020
HB80518	HB81021
HB80519	HB81022
HB80520	HB81023
HB80521	HB81024
HB80522	HB81025
HB80523	HB81026
HB80524	HB81027
HB80525	HB81028
HB80526	HB81029
HB80527	HB81030
HB80528	HB81031

Table 6 Continued	
HB80529	HB81032
HB80530	HB81033
HB80531	HB81034
HB80532	HB81035
HB80533	HB81036
HB80534	HB81037
HB80535	HB81038
HB80536	HB81039
HB80537	HB81040
HB80538	HB81041
HB80539	HB81042
HB80540	HB81043
HB80541	HB81044
HB80542	HB81045
HB80543	HB81046
HB80544	HB81047
HB80545	HB81048
HB80546	HB81050
HB80547	HB81051
HB80548	HB81052
HB80549	HB81053
HB80550	HB81054
HB80551	HB81055
HB80552	HB81056
HB80553	HB81057
HB80554	HB81058
HB80555	HB81059
HB80556	HB81060
HB80557	HB81061
HB80558	HB81062
HB80559	HB81063
HB80560	HB81064

Table 6 Continued	
HB80561	HB81065
HB80562	HB81066
HB80563	HB81067
HB80564	HB81068
HB80565	HB81070
HB80566	HB81071
HB80567	HB81072
HB80568	HB81073
HB80569	HB81074
HB80570	HB81075
HB80571	HB81076
HB80572	HB81077
HB80573	HB81078
HB80574	HB81079
HB80575	HB81081
HB80576	HB81082
HB80577	HB81083
HB80578	HB81084
HB80579	HB81085
HB80580	HB81086
HB80581	HB81087
HB80582	HB81088
HB80583	HB81089
HB80584	HB81090
HB80585	HB81091
HB80586	HB81092
HB80587	HB81093
Table 6 Continued	
HB80588	HB81094
HB80589	HB81095
HB80590	HB81096
HB80591	HB81097

Table 6 Continued	
HB80592	HB81098
HB80593	HB81099
HB80594	HB81100
HB80595	HB81101
HB80596	HB81102
HB80597	HB81103
HB80598	HB81104
HB80599	HB81105
HB80600	HB81106
HB80601	HB81107
HB80602	HB81108
HB80603	HB81109
HB80604	HB81110
HB80605	HB81111
HB80606	HB81112
HB80607	HB81113
HB80608	HB80654
HB80609	HB80684
HB80610	HB80695
HB80611	HB80756
HB80612	HB80776
HB80613	HB80889
HB80614	HB81049
HB80615	HB81069
HB80616	HB81080

Table 7, ECM Calibration Code Mapping for L9 CM2450 L126B	
Existing ECM Calibration Code	New ECM Calibration Code
KP10001	KP10285
KP10002	KP10286
KP10003	KP10287
KP10004	KP10288
KP10006	KP10291

Table 7, ECM Calibration Code Mapping for L9 CM2450 L126B	
Existing ECM Calibration Code	New ECM Calibration Code
KP10007	KP10292
KP10008	KP10293
KP10009	KP10294
KP10010	KP10305
KP10011	KP10306
KP10012	KP10308
KP10013	KP10309
KP10014	KP10307
KP10016	KP10311
KP10017	KP10312
KP10018	KP10313
KP10019	KP10314
KP10024	KP10289
KP10026	KP10253
KP10027	KP10254
KP10028	KP10255
KP10029	KP10256
KP10030	KP10257
KP10031	KP10258
KP10032	KP10259
KP10033	KP10260
KP10034	KP10261
KP10035	KP10262
KP10036	KP10263
KP10037	KP10264
KP10038	KP10265
KP10039	KP10266
KP10040	KP10267
KP10041	KP10268
KP10042	KP10269
KP10043	KP10270

Table 7, ECM Calibration Code Mapping for L9 CM2450 L126B	
Existing ECM Calibration Code	New ECM Calibration Code
KP10044	KP10271
KP10045	KP10272
KP10046	KP10273
KP10047	KP10274
KP10048	KP10275
KP10049	KP10276
KP10050	KP10277
KP10051	KP10278
KP10052	KP10279
KP10053	KP10280
KP10054	KP10281
KP10055	KP10282
KP10056	KP10283
KP10057	KP10284
KP10058	KP10295
KP10059	KP10296
KP10060	KP10298
KP10061	KP10299
KP10062	KP10297
KP10063	KP10301
KP10064	KP10302
KP10065	KP10303
KP10066	KP10304
KP10067	KP10300
KP10068	KP10316
KP10069	KP10317
KP10070	KP10319
KP10071	KP10320
KP10072	KP10318
KP10073	KP10324
KP10074	KP10325

Table 7, ECM Calibration Code Mapping for L9 CM2450 L126B	
Existing ECM Calibration Code	New ECM Calibration Code
KP10075	KP10326
KP10076	KP10327
KP10077	KP10321
KP10078	KP10328
KP10079	KP10329
KP10080	KP10331
KP10081	KP10332
KP10082	KP10330
KP10083	KP10336
KP10084	KP10337
KP10085	KP10338
Table 7 Continued	
KP10086	KP10339
KP10087	KP10333
KP10088	KP10340
KP10089	KP10341
KP10090	KP10343
KP10091	KP10344
KP10092	KP10342
KP10093	KP10346
KP10094	KP10347
KP10095	KP10348
KP10096	KP10349
KP10097	KP10350
KP10098	KP10351
KP10099	KP10352
KP10100	KP10355
KP10101	KP10356
KP10102	KP10353
KP10119	KP10290
KP10120	KP10310

Table 7 Continued	
KP10121	KP10322
KP10122	KP10334
KP10123	KP10323
KP10124	KP10335
KP10125	KP10345
KP10126	KP10354
KP10243	KP10315
Table 8, ECM Calibration Code Mapping for B6.7 CM2450 B155B	
Existing ECM Calibration Code	New ECM Calibration Code
LS10001	LS10503
LS10002	LS10504
LS10003	LS10507
LS10004	LS10508
LS10005	LS10505
LS10006	LS10510
LS10007	LS10506
LS10008	LS10514
LS10009	LS10515
LS10010	LS10517
LS10011	LS10518
LS10012	LS10516
LS10013	LS10519
LS10014	LS10524
LS10015	LS10525
LS10016	LS10527
LS10017	LS10528
LS10018	LS10526
LS10019	LS10529
LS10020	LS10534
LS10021	LS10535
LS10022	LS10538
LS10023	LS10539

Table 8, ECM Calibration Code Mapping for B6.7 CM2450 B155B	
LS10024	LS10536
LS10025	LS10540
LS10026	LS10537
LS10027	LS10545
LS10028	LS10546
LS10029	LS10548
LS10030	LS10549
LS10031	LS10547
LS10032	LS10550
LS10033	LS10551
LS10034	LS10552
LS10035	LS10553
LS10036	LS10554
LS10037	LS10555
LS10038	LS10556
LS10039	LS10557
LS10040	LS10559
LS10041	LS10561
LS10042	LS10562
LS10043	LS10558
LS10044	LS10563
LS10045	LS10560
LS10046	LS10564
LS10047	LS10565
LS10048	LS10566
LS10049	LS10567
LS10050	LS10568
LS10051	LS10569
LS10052	LS10571
LS10053	LS10572
LS10054	LS10573
LS10055	LS10570

Table 8, ECM Calibration Code Mapping for B6.7 CM2450 B155B	
LS10058	LS10578
LS10059	LS10579
LS10060	LS10580
LS10061	LS10581
LS10062	LS10582
LS10063	LS10583
LS10064	LS10588
LS10065	LS10589
LS10066	LS10590
LS10067	LS10591
LS10068	LS10592
LS10069	LS10593
LS10070	LS10600
LS10071	LS10601
LS10072	LS10602
LS10073	LS10603
LS10074	LS10509
LS10075	LS10511
LS10076	LS10512
LS10077	LS10513
LS10078	LS10530
LS10079	LS10531
LS10080	LS10532
Table 8 Continued	
LS10081	LS10533
LS10082	LS10520
LS10083	LS10521
LS10084	LS10522
LS10085	LS10523
LS10086	LS10541
LS10087	LS10542
LS10088	LS10543

Table 8 Continued	
LS10089	LS10544
LS10090	LS10574
LS10091	LS10575
LS10092	LS10576
LS10093	LS10577
LS10098	LS10584
LS10099	LS10585
LS10100	LS10586
LS10101	LS10587
LS10102	LS10594
LS10103	LS10595
LS10104	LS10596
LS10105	LS10597
LS10106	LS10598
LS10107	LS10599
LS10108	LS10604
LS10109	LS10605
LS10116	LS10606
LS10117	LS10607
LS10118	LS10610
LS10119	LS10611
LS10120	LS10608
LS10121	LS10612
LS10122	LS10609
LS10123	LS10613
LS10124	LS10614
LS10125	LS10616
LS10126	LS10617
LS10127	LS10615
LS10128	LS10618
LS10129	LS10619
LS10130	LS10620

Table 8 Continued	
LS10131	LS10622
LS10132	LS10623
LS10133	LS10621
LS10134	LS10624
LS10135	LS10625
LS10136	LS10626
LS10137	LS10629
LS10138	LS10630
LS10139	LS10627
LS10140	LS10631
LS10141	LS10628
LS10142	LS10632
LS10143	LS10633
LS10144	LS10635
LS10145	LS10636
LS10146	LS10634
LS10147	LS10637
LS10148	LS10638
LS10149	LS10639
LS10150	LS10640
LS10151	LS10642
LS10152	LS10643
LS10153	LS10644
LS10154	LS10641
LS10155	LS10645
LS10156	LS10646
LS10157	LS10647
LS10158	LS10648
LS10159	LS10650
LS10160	LS10651
LS10161	LS10652
LS10162	LS10649

Table 8 Continued	
LS10163	LS10653
LS10164	LS10654
LS10165	LS10655
LS10166	LS10656
LS10167	LS10657
LS10168	LS10658

Table 8 Continued	
LS10169	LS10659
LS10170	LS10660
LS10171	LS10661
LS10172	LS10662
LS10173	LS10663
LS10174	LS10664
LS10175	LS10665
LS10176	LS10666
LS10177	LS10667
LS10178	LS10668
LS10179	LS10669
LS10180	LS10670
LS10181	LS10671
LS10182	LS10672
LS10183	LS10673
LS10184	LS10674
LS10185	LS10675
LS10186	LS10676
LS10187	LS10677
LS10188	LS10678
LS10189	LS10679
LS10190	LS10680
LS10191	LS10681
LS10192	LS10682
LS10193	LS10683

Table 8 Continued	
LS10194	LS10684
LS10195	LS10685
LS10196	LS10686
LS10197	LS10687
LS10198	LS10688
LS10199	LS10689
LS10200	LS10690
LS10201	LS10691
LS10202	LS10692
LS10203	LS10693
LS10204	LS10694
LS10205	LS10695
LS10206	LS10696
LS10207	LS10697
LS10208	LS10698
LS10209	LS10699
LS10210	LS10700
LS10211	LS10701
LS10212	LS10702
LS10213	LS10703
LS10214	LS10704
LS10215	LS10705
LS10216	LS10706
LS10217	LS10707
LS10218	LS10708
LS10219	LS10709
LS10220	LS10710
LS10221	LS10711
LS10222	LS10712
LS10223	LS10713
LS10224	LS10714
LS10225	LS10715

Table 8 Continued	
LS10226	LS10716
LS10227	LS10717
LS10228	LS10718
LS10229	LS10719
LS10230	LS10720
LS10231	LS10721
LS10232	LS10722
LS10233	LS10723
LS10234	LS10724
LS10235	LS10725
LS10236	LS10726
LS10237	LS10727
LS10238	LS10728
LS10239	LS10768
LS10240	LS10769
LS10241	LS10770
LS10242	LS10771
LS10243	LS10772
LS10244	LS10773
LS10245	LS10774
LS10246	LS10775
Table 8 Continued	
LS10247	LS10776
LS10248	LS10777
LS10249	LS10778
LS10250	LS10779
LS10251	LS10780
LS10252	LS10781
LS10253	LS10782
LS10254	LS10783
LS10255	LS10784
LS10256	LS10785

Table 8 Continued	
LS10257	LS10786
LS10258	LS10787
LS10259	LS10788
LS10260	LS10789
LS10261	LS10790
LS10262	LS10791
LS10263	LS10792
LS10264	LS10793
LS10265	LS10794
LS10266	LS10795
LS10267	LS10796
LS10268	LS10797
LS10269	LS10798
LS10270	LS10799
LS10271	LS10800
LS10272	LS10801
LS10273	LS10802
LS10274	LS10803
LS10275	LS10804
LS10276	LS10805
LS10277	LS10806
LS10278	LS10807
LS10279	LS10729
LS10280	LS10730
LS10281	LS10731
LS10282	LS10732
LS10283	LS10733
LS10284	LS10734
LS10285	LS10735
LS10286	LS10736
LS10287	LS10737
LS10288	LS10738

Table 8 Continued	
LS10289	LS10739
LS10290	LS10740
LS10291	LS10741
LS10292	LS10742
LS10293	LS10743
LS10294	LS10744
LS10295	LS10745
LS10296	LS10746
LS10297	LS10747
LS10298	LS10748
LS10299	LS10749
LS10300	LS10750
LS10301	LS10751
LS10302	LS10752
LS10303	LS10753
LS10304	LS10754
LS10305	LS10755
LS10306	LS10756
LS10307	LS10757
LS10308	LS10758
LS10309	LS10759
LS10310	LS10760
LS10311	LS10761
LS10312	LS10762
LS10313	LS10763
LS10314	LS10764
LS10315	LS10765
LS10316	LS10766
LS10317	LS10767
LS10318	LS10808
LS10319	LS10809
LS10320	LS10810

Table 8 Continued	
LS10321	LS10811
LS10322	LS10812
LS10323	LS10813
LS10324	LS10814
Table 8 Continued	
LS10325	LS10815
LS10326	LS10816
LS10327	LS10817
LS10328	LS10818
LS10329	LS10819
LS10330	LS10820
LS10331	LS10821
LS10332	LS10822
LS10333	LS10823
LS10334	LS10824
LS10335	LS10825
LS10336	LS10826

Document History

Date	Details
2021-8-26	Module Created
2021-9-16	Updated Resolution section. Updated Table 4 and Table 6.