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Subject: ServiceRanger 3.x Database Updates – All

Document Number: MDIB-0021

Date: April 16, 2009   **Updated:** August 13, 2012

Issue Description:
This document contains all ServiceRanger Database update information. The most recent version is 45. This document has been created as a reference for the information included in each database update only. Generally ServiceRanger 3.x database updates are released in conjunction with an application software updates. For application software update information reference the appropriate bulletin for the complete software build.

Current Release:
Database 45
Release Date: 8/10/2012

- Released "Isuzu" Launch Acceleration configuration option for Isuzu electric hybrid product.

- Released "EOAS 8" Engine Off At Stop Settings configuration option for China bus (-PBD) electric hybrid product.

Database 44
Release Date: 7/2/2012

- Released the following shift point calibrations for Gen 3 UltraShift *PLUS* products:
    - 2010 MaxxForce 11 LAS/VAS Optimized 5573227 (engine specific)
    - 2010 PACCAR MX MXP/VXP Optimized 5572733 (engine specific)
- Released Hydraulic Launch Assist (HLA) software version 29.

Database Version 43
Release Date: 4/26/2012

- Released Gen 3 AutoShift/UltraShift transmission ECU software 5569901.
- Renamed Gen 3 AutoShift/UltraShift 2007 engine specific shift point calibrations to include 2010 to improve communication:
  - 2007/2010 Cummins ISX
  - 2007/2010 DD15 V2
  - 2007/2010 Cummins ISX1 up to 450 HP
  - 2007/2010 DD15 V2
- Released the following shift point calibrations for Gen 3 UltraShift *PLUS* products:
  - All Optimized LAS and MHP calibrations are now available for VAS and VHP models (engine specific).
  - Off Road Performance released for VCS and VMS models.
- Released Hybrid Control Module software 5500667 for the DAF/Leyland European electric hybrid product.

Database Version 42
Release Date: 2/9/2012

- Released Gen 3 UltraShift® *PLUS* transmission ECU software 5569906.
- Removed Hybrid Control Module software 5500659 as available option for China bus (-PBD) electric hybrid product; it is not compatible
- Released Hydraulic Launch Assist (HLA) software version 28

Database Version 40
Release Date: 12/15/2011

- Released the following shift point calibrations for Gen 3 UltraShift *PLUS* products:
  - 2010 DD13 MHP Optimized 5572918 (engine specific)
  - 2010 Cummins ISX1 15L LAS Optimized 5573225 (engine specific)
  - 2010 Westport HD GX MHP Optimized 5572916 (engine specific)
  - Low RPM 5572919
- Released Hybrid Control Module software 5500657 for the Solaris European electric hybrid product.
- Released Hybrid Control Module software 5500663 for all NAFTA electric hybrid products.
- Released Hybrid Control Module software 5500664 for the Iveco European electric hybrid product.

Database Version 38
Release Date: 10/21/2011

- Released the following shift point calibrations for Gen 3 UltraShift *PLUS* products:
  - 2010 MaxxForce 13 LAS Optimized 5573223 (engine specific)
  - Low RPM Progressive MHP
  - Low RPM Progressive LAS
- Released Transmission Control Module software 5569904 for all NAFTA electric hybrid products.
- Released Hybrid Control Module software 5500660 for the DAF/Leyland European electric hybrid product.
- Released Hybrid Control Module software 5500662 with BCU software 5532518 for the Daimler/Atego European electric hybrid product.
- Enabled electric hybrid Advanced Product Functions for NAFTA –PSB product and European Daimler/Atego, DAF/Leyland, and Solaris products.

Database Version 37
Release Date: 9/8/2011

- Released Hybrid Control Module software 5500659 for all NAFTA electric hybrid products.

Database Version 36
Release Date: 9/1/2011

- Released Hybrid Control Module software 5500649 with BCU software 5532517 for the Daimler/Atego European electric hybrid product.
- Released Hydraulic Launch Assist (HLA) software version 27.

Database Version 35
Release Date: 7/11/2011

- Released Gen 3 UltraShift *PLUS* transmission ECU software 5569899.
- Released "2010 Cummins ISX1 15L MHP Optimized 5572915" engine specific shift point calibration for Gen 3 UltraShift *PLUS* products.

Database Version 34
Release Date: 6/15/2011

- Released Gen 3 AutoShift/UltraShift transmission ECU software 5569900.

- Released the following engine specific shift point calibrations for Gen 3 UltraShift *PLUS* products:

    o 2010 DD15 LAS Optimized 5573221

    o 2010 DD16 MXP Optimized 5572731

    o 2010 DD13 LAS Optimized 5573222

- Changed "Hard-Wired Park Brake Switch" (Installed/Not Installed) configuration to be available at Fleet User Level and above for Gen 3 UltraShift *PLUS* products.

Database Version 33
Release Date: 4/21/2011

- Added Dyno Start Gear selections to Max Start Gear options for Gen 3 UltraShift *PLUS* products.

Database Version 31
Release Date: 1/21/2011

- Released "2400 MaxxForce DT Low Speed V2" engine specific shift point calibration for Medium Duty Gen 3 UltraShift (HV) products.

- Changed the following Medium Duty Gen 3 UltraShift (HV) shift point calibrations to be available at Basic ServiceRanger User Level:

    o 2400 RPM Standard (Default)

    o 2600 RPM Performance

Database Version 30
Release Date: 12/17/2010

- Released Gen 3 UltraShift *PLUS* transmission ECU software 5569892.

- Released "2010 PACCAR MX Optimized" engine specific shift point calibration for Gen 3 AutoShift, UltraShift and UltraShift *PLUS* products.

- Corrected the following Medium Duty automated transmission product configurations from being displayed in the Product Configuration screen when connected to Heavy Duty automated transmission models:

    o Hill Start Aid

    o Kick Downshift

    o PTO Brake

    o Minimized Downshifts

Database Version 29
Release Date: 11/19/2010

- Released Gen 3 AutoShift/UltraShift transmission ECU software 5569890.

Database Version 27
Release Date: 09/27/2010

- Changed user level access to the all hybrid Advanced Product Functions to be available at Basic ServiceRanger User Level.

Database Version 26
Release Date: 08/05/2010

- Released Hybrid Control Module software 5500645.

- Release hybrid Transmission Control Module software 5569893.

- Added "(Park)" designation to Medium Duty Gen 3 UltraShift (HV) transmission model numbers to identify Park Pawl models.

- Allow 3rd Gear Coast Down option for Medium Duty Gen 3 UltraShift (HV) products.

- Released VORAD Driver Interface Unit software version 5 for "Bendix-style" data recording capability.

- Released "2100 Gear Fast Run Slow–EB" shift point calibration for Gen 2 10-Speed AutoShift/UltraShift products.

Database Version 25
Release Date: 06/22/2010

- Released Hybrid Control Module software 5500641.

- Released Gen 3 UltraShift *PLUS* transmission ECU software 5569891.

- Changed available UltraShift Wet Clutch (AW3) transmission software to 5569860. This was the last certified and released software for this transmission model.

- Allow shift point calibration changes for Gen 3 UltraShift *PLUS* 10-Speed LAS products at Basic ServiceRanger User Level.

- Released the following engine specific shift point calibrations for Medium Duty Gen 3 UltraShift (HV) products:

    o 2400 MaxxForce DT Low Speed

    o 2400 Hino

    o 2400 Cummins ISB

    o 2600 Cummins ISB

- Released "2010 PACCAR MX" engine specific shift point calibration for Gen 3 UltraShift 13-Speed (LEP) product.

Database Version 24
Release Date: 06/3/2010

- Released Gen 3 AutoShift/UltraShift transmission ECU software 5569888.

- Updated and added fault codes for hybrid products.

Database Version 23
Release Date: 05/12/2010

- Added J1939 hybrid parameter lists to Vehicle Data Monitor function.

- Released hybrid Transmission Control Module software 5569885.

- Released "DD13" and "MaxxForce 13L V3" engine specific shift point calibrations for Gen 3 AutoShift/UltraShift 10-Speed products.

- Released the following shift point calibrations for Gen 3 AutoShift 18-Speed products:

    o 2000 RPM Standard EPU

    o 2000 RPM Fleet EPU

    o 2000 RPM Heavy Haul EPU

    o 2000 RPM Gear Fast Run Slow EPU

Database Version 1.0.21.0
Release Date: 03/01/2010

- Released Gen 3 AutoShift/UltraShift transmission ECU software 5569884.

- Released Hybrid Control Module software 5500633 for all hybrid products except - PBD.

- Released Hybrid Control Module software 5500635 for -PBD hybrid product.

- Released hybrid Transmission Control Module software 5569837 for all hybrid products except -PBD.

Database Version 1.0.19.0
Release Date: 1/25/10

- Released Gen 3 AutoShift/UltraShift transmission ECU software 5569881.

- Released Gen 3 UltraShift *PLUS* transmission ECU software 5569882.

- Released Gen 2 AutoShift/UltraShift transmission ECU software 5569101.

- Added SPN 597 – Brake Switch parameter to the Vehicle Data Monitor function for hybrid products.

Database Version 1.0.17.0
Release Date: 11/05/09

- Released Hybrid Control Module software 5500632.

- Released Hybrid Control Module software 5500631 for China city bus application.

- Added new hybrid vehicle type – PBD for China city bus application.

- Released Gen 3 UltraShift *PLUS* transmission ECU software 5569879.

- Removed Gen 3 transmission ECU software 5569863 from the 6-Speed AW3 product; 5569860 was the last certified software version.

- Changed Auto-Neutral transmission configuration for hybrid products to be available at Basic ServiceRanger User Level.

- Updated configuration user levels for Medium Duty Gen 3 UltraShift (HV) products.

Database Version 1.0.14.0
Release Date: 7/31/09

- Released VORAD VS-400 Forward Looking Radar (FLR) software 17/18 for SmartCruise feature on 2010 DD15 and DD13 engines.

- Released Hybrid Control Module software 5500630 and Transmission Control Module software 5569877 for all hybrid products.

- Changed the Shift Response Type and Shift Point Calibration (configuration) names for simplification on all Gen 3 UltraShift *PLUS* products.

- Changed available Lightning transmission ECU software to version 037.

- Added new hybrid vehicle types: -CDG, -CDR and -P.

- Added "PID 137 –HV Battery Life Used" parameter to the Vehicle Data Monitor function for hybrid products.

- Added the following Product Configuration parameters for hybrid products:
    - HSA, Trans Type, EOAI Type, and Battery Type.
    - Stationary Engine Off Strategy to City Delivery w/APG (CDG), Utility (UP), and Utility w/APG (UPG) applications.

- Released "LHP Fleet DD15" shift point calibration for Gen 3 UltraShift 13-Speed products.

- Released "2000 RPM Fleet Export" shift point calibration for Gen 2 AutoShift/ UltraShift 10-Speed products.

- Released "DDC S60 EGR Export" shift point calibration for the Gen 3 AutoShift 18-Speed products.

Database Version 1.0.12.0
Release date: 5/15/09

- Released Hybrid Control Module software 5500629 with Battery Control Unit software 553502 for all hybrid products.

- Added and updated the following parameters to the Vehicle Data Monitor function for hybrid products:

    o PID 174 – APG Input Power

    o PID 175 – Export Power Short Cycling Condition

    o Removed PID 121– DC/DC Converter Output Voltage

- Added the following fault code for hybrid products:

    o FC 121, SPN 520276, FMI 5 – APG Unit 1 – 12V Battery Supply Fault

- Released "2007 MaxxForce 13L V2" engine specific shift point calibration for Gen 3 AutoShift/UltraShift 10-Speed products.

- Released "2000 RPM Fleet Export" shift point calibration for Gen 3 AutoShift 18-Speed products.

- Added and updated fault codes for Gen 3 UltraShift vocational products.

Database Version 1.0.11.0
Release date: 3/05/09

- Released VORAD VS-400 Forward Looking Radar (FLR) software versions 15/16 and Driver Interface Unit (DIU) software version 3. **

- Added the following fault codes for VORAD VS-400 FLR:

    o FC 39, SPN 158, FMI 3, 4 – Supply Voltage Out of Range

    o FC 95, SPN 171, FMI 0,1 – Ambient Temperature Out of Range

- Added the following fault codes for hybrid LPWP products:

    o FC 14, SPN 751, SID 18,19, FMI 2,3,4 – Invalid Shift Lever Voltage

    o FC 83, SPN 751, SID 18, FMI 12,13 - Shift Lever Missing

    o FC 84, SPN 751, SID 18, FMI 14 - Shift Control Device Not Configured

- Corrected Coast Mode-Enable configuration setting for Gen 3 UltraShift 13-Speed LEP products.

- Corrected Grade Sensor Feedback parameter value calculation in Vehicle Data Monitor function for Gen 3 UltraShift vocational products.

- Implemented several minor user interface enhancements.

** See Service Bulletin VRIB0009 for details

Database Version 1.0.10.0
Release date: 02/03/2009

- Released "GFRS Performance" shift point calibration for Gen 3 AutoShift 10-Speed products.

- Released "DD15 V2" engine specific shift point calibration to replace old DD15 shift point calibration for Gen 3 AutoShift\UltraShift 10 and 13-Speed products.

- Released VORAD VS-400 Forward Looking Radar (FLR) software versions 11/12.

- Released hybrid Transmission Control Module software 5569870.

- Released Hybrid Control Module software 5500626.

- Released Hybrid Control Module software 5500625 for shuttle bus application.

- Released Hybrid Control Module software 5500627 for diminishing load application.

- Added new hybrid vehicle type for Diminishing Load (-T) application.

- Added new Product Configuration parameters for hybrid Diminishing Load application.

- Added and updated the following fault codes for hybrid products:
  - FC 94, SPN 567, FMI 9 – Transfer Case CAN loss – 4x4 application
  - FC 53 assigned to SPN 520244, FMI 14 – DC/DC Converter Fault
  - FC 122 assigned to SPN 520277, FMI 16 and 17 – APG 1 Output Power Fault.
  - Corrected FMI 15 description for FC122 SPN 520277.
  - Removed PID 137 High Voltage Battery Life to be re-defined.

- Added the following Product Configuration parameters for hybrid products:
  - APG Automatic Reset to Utility w/APG (UPG) application.
  - Energy Management Setting to Utility (UP), Utility w/APG (UPG), and Diminishing Load (T) applications.
  - Clutch Type to all product applications.

Database Version 1.0.9.0
Release Date: 12/05/08

- Released Gen 3 AutoShift/UltraShift transmission ECU software 5569872.

- Released Gen 3 UltraShift vocational transmission ECU software 5569866.

- Added new Product Configuration parameters for 2008 hybrid applications.

- Added 3rd gear Default and Maximum Start Gear configuration options for Gen 3 UltraShift 10 and 13-Speed CRV products.

- Added and updated fault codes for Gen 3 UltraShift vocational products.

- Added Automated Product Function "Grade Sensor Calibration" for Gen 3 UltraShift vocational products.

- Added PTO, Park and Service Brake Switch parameters to Vehicle Data Monitor function for Gen 3 UltraShift vocational products.

- Added Vehicle Enabling Component Status, Transmission Range Attained and Transmission Range Selected parameters to Vehicle Data Monitor function for Gen 3 UltraShift vocational products.

- Added mPTO signal status parameter to Vehicle Data Monitor function for hybrid products.

- Changed XY shifter Direction Mismatch fault from FC11 SID254 FMI12 to FC99 SID58 FMI14 for Gen 3 UltraShift vocational products. Faults are now consistent with all other Gen 3 automated products.

- Corrected ECA Data Monitor Parameter value conversions for Gen 3 UltraShift vocational products.

Database Version 1.0.7.0
Release Date: 10/01/08

- Released VORAD VS-400 Forward Looking Radar (FLR) software versions 9/10 and Driver Interface Unit (DIU) software version 2.

- Released hybrid Transmission Control Module software 5569864.

- Released Hybrid Control Module software 5500623.

- Added and updated ECA fault codes for Gen 3 UltraShift vocational products.

- Added Product Configuration parameters for VORAD VS-400 RV products.

- Updated Product Configuration parameters for VORAD VS-400 truck products.

- Added FMI 13 (Out of Calibration) to Fault Code 27 (Clutch Disengagement Fault) for all Gen 3 automated transmissions.

- Added FMI 12 (Bad intelligent device or component) and FMI 1(Data valid but below normal operating range) to Fault Codes 61 and 63 for all Gen 3 automated transmissions.

- Added FMI 6 (Current above normal or shorted to ground) and FMI 8 (Abnormal frequency, pulse width, or period) to Fault Code 58 for Gen 3 UltraShift vocational products.

Database Version 1.0.5.0 and prior
Release Date: 09/18/08 and prior

- Released Gen 3 AutoShift/UltraShift transmission ECU software 5569860.

- Released Gen 3 transmission ECU software 5569867 for Medium Duty Gen 3 UltraShift (HV) and Heavy Duty CRV products.

- Released "Cummins ISX" shift point calibration for Gen 3 AutoShift/UltraShift 10 and 13-Speed products.

- Added and updated APG and ECA fault codes for hybrid products.

- Added parameters in Vehicle Data Monitor function for Gen 3 UltraShift vocational products.

- Updated configurations for hybrid products.

- Added ECA fault codes for Gen 3 UltraShift vocational products.

- Added FMI 12 (Bad Intelligent Device or Component) to Fault Code 12 (Improper ECU Configuration) for all Gen 3 automated transmissions.

- Released "2007 DD15" shift point calibration for Gen 3 AutoShift/UltraShift 10 and 13-Speed products.

- Added 10 and 13-Speed Gen 3 UltraShift CRV transmission models.

Containment/Corrective Action:

Affected Models/Population:
ServiceRanger Version 3.x Database

Field Strategy:
ServiceRanger application and database updates can be downloaded from the ServiceRanger web page. Follow link below to the ServiceRanger web page.

http://www.roadranger.com/Roadranger/trainingsupport/ServiceRanger/index.htm

Warranty Information:
None

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