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SIL 6-WT-17, Rev. B
August 27, 2020
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Supersedes SIL 10-WT-02

SUBJECT: Release of Remanufactured WTEC II Electronic Control Units (ECUs)

MODELS AFFECTED: 3000 and 4000 Series Product Family Transmissions

Introduction:

Allison Transmission, Inc. is pleased to announce the release of remanufactured WTEC II Electronic Control Unit (ECU) P/Ns R29517003 (12/24V Max Feature) and R29514527 (12V Only Basic Feature). Max Feature WTEC II ECU assembly P/N 29517003 (former WTEC II service ECU) and all other WTEC II Shift Selector/ECU assembly part numbers are cancelled. Additional information is contained in Transmission Parts Policy Letters 16-TPPL-09 (PP7824EN) and 17-TPPL-11 (PP8005EN).

Remanufactured 12/24V Max Feature WTEC II ECU P/N R29517003 can be used to service any WTEC II ECU. Calibration Identification Numbers (CINs) beginning with 08 can be loaded into this ECU. Remanufactured 12V Only Basic Feature WTEC II ECU P/N R29514527 can only be used to service basic ECUs with CINs beginning with 06 or 07. CINs beginning with 06 must be upgraded or "rolled up" to 07 version prior to loading into this ECU.

Replacement ECU Selection:

If the calibration being replaced is defined as a basic feature calibration in the Calibration Summary Report **AND** has a CIN beginning with 06 or 07, use replacement ECU P/N R29514527.

If the calibration being replaced has a CIN beginning with 08 or has the calibration setting set to a Max Feature ECU setting as defined in the Calibration Summary Report, ECU P/N R29517003 must be used.

The Calibration Summary Report can be generated using Allison TCM Reflash™. Select "Add", enter the CIN or TCM Assembly Number, then select "View Summary Report".

For example, CIN 06-000MB-031-8 has a CIN beginning with 06 and the Calibration Summary Report shows that the Uncalibrated ECU Hardware Number is set to 29511202 -- Basic - Integral Pushbutton. Even if this calibration was loaded into a Max Feature ECU, reman P/N R29514527 can be used since the Calibration Summary Report indicates the Basic setting. Refer to [Figure 1](#).

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Please Note: Allison Transmission Service Information Letters are intended for use by professional, trained technicians, not for the "do-it-yourselfer." They are written to inform those technicians of conditions that may occur on some transmission models (or serial numbers ranges) or to provide information that could assist in the proper servicing of a specific Allison transmission. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, do not assume that the Service Information Letter applies to your transmission, or that your transmission has the condition described. Product evolution and information updates are inevitable. Please see your authorized Allison Transmission service dealer or distributor to understand if your particular transmission may benefit from the information contained within the Service Information Letter.

PAGE: 1 FROM CALIBRATION CONFIGURATION SYSTEM
RPSUM CALIBRATION SUMMARY REPORT

CC Level: 06

CIN: 06-000MB-031 8

Calibrated ECU Assy Number:	S06000MB -- SERVICE RELEASED
Uncalibrated ECU Hardware Number	29511202 -- BASIC - INTEGRAL PUSHBUTTON
Model	MD3060 -- MED DUTY CLOSE RATIO
Vocation	2800 -- MOTOR HOME
Function Package Group	5124 -- CONVERTED PACKAGE GROUP # 124
Active Function Package	5124 -- CONVERTED PACKAGE # 124
Engine Govern Speed	2400 -- RPM
Engine Brake	E -- SPECIAL - EUROPEAN EXHAUST
Anti-lock Brake System	YES
Comm Link Type	T -- TPS
Oil Level Sensor	NO
Speedometer Pulses per Rev	16 -- DOMESTIC
Shift Selector #1	PB -- PUSHBUTTON
Shift Selector #2	NA -- NONE
Primary Shift Schedule	S1 -- PERFORMANCE
Secondary Shift Schedule	S3 -- ECONOMY
Clip Nuts	M -- METRIC
Special Calibration	NO

	Low	Start	High
Primary Gears	1	1	6
Secondary Gears	1	1	6

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Figure 1. Calibration Summary Report - CIN beginning with 06, Basic ECU

As another example, CIN 07-00FRH-001-X has a CIN beginning with 07, but the Calibration Summary Report shows the Uncalibrated ECU Hardware Number of 29514526 -- Max - Remote. Even though the CIN begins with 07, reman ECU P/N R29517003 is required since the calibration is set to a Max Feature setting. Refer to [Figure 2](#).

PAGE: 1 FROM CALIBRATION CONFIGURATION SYSTEM
RPSUM CALIBRATION SUMMARY REPORT

Run Number: 43695 --

SCAAN NBR:

AFR NUMBER: SE

CC Level: 07

Customer Part Number:

CIN: 07-00FRH-001 X

Calibrated ECU Assy Number:	S0700FRH -- SERVICE RELEASED
Model	HD4060 -- HD CLOSE RATIO
Uncalibrated ECU Hardware Number	29514526 -- MAX - REMOTE
Vocation	2800 -- MOTOR HOME
Function Package Group	5116 -- CONVERTED PACKAGE GROUP # 116
Active Function Package	5116 -- CONVERTED PACKAGE # 116
Engine Govern Speed	2100 -- RPM
Engine Brake	C -- STANDARD - COMPRESSION BRAKE
Anti-lock Brake System	YES
Comm Link Type	J -- J-1587
Oil Level Sensor	YES
Speedometer Pulses Per Rev	16 -- DOMESTIC
Shift Selector #1	PB -- PUSHBUTTON
Shift Selector #2	NA -- NONE
Primary Shift Schedule	S1 -- PERFORMANCE
Secondary Shift Schedule	S3 -- ECONOMY
Clip Nuts	M -- METRIC
Special Calibration	NO

	Low	Start	High
Primary Gears	1	1	6
Secondary Gears	1	1	6
Dynax or 7026 in TID 1	YES		
New MD Retarder Module	NO		

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Figure 2. Calibration Summary Report - CIN beginning with 07, Max Feature ECU

All CINs beginning with 08 should use P/N R29517003.

Interchangeability:

Former 12/24V Max Feature ECU assembly P/N 29517003 and current ECU P/N R29517003 are completely interchangeable.

Former 12V Only Basic Feature ECU assembly P/N 29514527 and current ECU P/N R29514527 are completely interchangeable.

Service Parts Information:

Table 1 identifies the cancelled WTEC II ECU part numbers.

Table 1. Cancelled WTEC II ECU Part Numbers

Part Number	Description
29507945	12V, CORE ASSEMBLY-ECU BASIC
29507948	12V, CORE ASSEMBLY-ECU MAX FEATURE
29510419	12V, ELECTRONIC CONTROL UNIT-ECU, BASIC
29510422	12V, CORE ASSEMBLY-ECU MAX FEATURE
29510423	12V, CORE ASSEMBLY-ECU BASIC
29511201	12V, ELECTRONIC CONTROL UNIT-CORE MAX FEATURE
29511202	12V, ELECTRONIC CONTROL UNIT-CORE BASIC
29511839	12V, ELECTRONIC CONTROL UNIT-REMOTE BASIC
29511840	12V, ELECTRONIC CONTROL UNIT-REMOTE MAX FEATURE
29511841	12V, ELECTRONIC CONTROL UNIT-PUSHBUTTON BASIC
29511843	12V, ELECTRONIC CONTROL UNIT-ECU ASSEMBLY-LEVER BASIC
29513411	12V, ELECTRONIC CONTROL UNIT MODULE-BASIC
29514525	12V, ELECTRONIC CONTROL UNIT MODULE-SEALED MAX FEATURE
29514526	12V, ELECTRONIC CONTROL UNIT MODULE-SPLASHPRO MAX FEATURE
29514527	12V, ELECTRONIC CONTROL UNIT MODULE-SPLASHPRO BASIC
29517002	12V/24V, ELECTRONIC CONTROL UNIT-REMOTE SPLASH
29524009	12V/24V ECU ASSEMBLY, REMOTE: MAX FEATURE; W/LOW CRYSTAL
29524010	12V/24V ECU ASSEMBLY, REMOTE: MAX FEATURE; W/HIGH CRYSTAL
29516997	12V/24V ECU ASSEMBLY, REMOTE: BASIC; W/O CLIP NUTS
29516999	12V/24V ECU ASSEMBLY, REMOTE: BASIC; W/METRIC CLIP NUTS
29517001	12V/24V ECU ASSEMBLY, REMOTE: MAX FEATURE; W/O CLIP NUTS
29517003	12V/24V ECU ASSEMBLY, REMOTE: MAX FEATURE; W/METRIC CLIP NUTS
29517016	12V/24V ECU ASSEMBLY, INTEGRAL: MAX FEATURE; W/PBSS
29517040	12V/24V ECU ASSEMBLY, INTEGRAL: MAX FEATURE; W/LSS; 6RHRF
29517064	12V/24V ECU ASSEMBLY, INTEGRAL: MAX FEATURE; W/LSS; 5RHRF
29517088	12V/24V ECU ASSEMBLY, INTEGRAL: MAX FEATURE; W/LSS; 4RHRF

Shift selector assemblies and ECUs can be replaced separately when an integral shifter / ECU assembly must be serviced. WTEC II ECU P/Ns R29517003 and R29514527 can be used to service these assemblies.

Shift Selector/ECU assemblies are cancelled and shall be serviced with the remanufactured ECU and detail WTEC II shift selector part number.

Service Instructions:

Consult the 3000/4000 Series Product Families and Support Equipment Parts Catalogs for disassembled views of the ECU assembly and Integral Shifter/ECU assemblies.

Replacing a Remote ECU:

When replacing a WTEC II remote ECU, calibrate the replacement ECU as defined in the **Defining the CIN to Load into the Replacement ECU** section.

Replacing an Integral Shifter/ECU Assembly:

When replacing the ECU or the shifter portion of an integral Shifter/ECU assembly, use a static protected workstation or an anti-static wristband such as Bosch Tool Number 7744 or equivalent (refer to [Figure 3](#)) to ensure no static electricity discharge damage will occur to the ECU or Shifter.



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Figure 3. Electrostatic Discharge Wrist Strap (Tool Number 7744 Shown)

Shift Selector Removal

1. Separate the shift selector from the ECU by removing the four (4) slotted Torx® head screws.
2. Carefully disconnect the shift selector ribbon cable at the connector on the ECU circuit board.
3. Remove the four (4) slotted Torx® head screws holding the cover P/N 29507676 to the top of the replacement ECU. Refer to [Figure 4](#).



NOTE: Retain the cover for installation on the ECU core (refer to Core Handling Procedures).

Shift Selector Installation

1. Install the shift selector by connecting the ribbon cable to the connector on the replacement ECU circuit board.
2. Re-install the four T15 Torx® head screws. Torque the screws to 0.9-1.1 N·m (8-10 lb in).
3. Calibrate the replacement ECU as defined in the **Defining the CIN to Load into the Replacement ECU** section.
4. Reinstall any support hardware that was removed during this repair (clip nuts, screws, etc.).

Defining the CIN to Load into the Replacement ECU:

When using replacement ECU R29517003, update the CIN to the most recent version of CIN beginning with 08. This can be done using the CIN upgrade method defined in this SIL.

When using replacement ECU R29514527, load the most recent version of CIN beginning with 07. This can be done using the CIN upgrade method defined in this SIL.

If the existing CIN is superseded by a new CIN, use the most recent version of the new CIN.

If the updated CIN is not available, contact the Technical Assistance Center (TAC) at 1-800-252-5283 or contact the Allison Calibration Support Desk via email at calibration_support@allisontransmission.com.

CIN Upgrade Method:

Original CINs may begin with 06, 07, or 08.

1. Determine the original CIN and the CIN level required for the replacement ECU.
2. Modify the CIN by updating the first 2 digits to the level required for the replacement ECU.
3. Increment the last character of the CIN by 1 or 2, depending on whether the CIN level was incremented by 1 or 2.

For example, to update a CIN beginning with 07, change the beginning of the CIN to 08 (by incrementing the CIN up by 1) and increment the last character by 1. For example, CIN 0700152003J will update to 0800152003K. The J increases by 1 character to K.



NOTE: The letters I and O are not used in CINs, so those letters should be skipped. The order of the last digit is 0,1,2,3,4,5,6,7,8,9,A,B,C...Y,Z,0,1,2, etc.

Core Handling Procedures:

As outlined in TPPL 16-TPPL-09, there is a core fee associated with the purchase of P/Ns R29517003 and R29514527. The Remanufactured ECU is shipped in the remote configuration with metallic cover P/N 29507676. When P/N R29517003 or P/N R29514527 is used to replace the ECU in an integral Shifter/ECU installation, remove cover P/N 29507676 and install it on the ECU core before shipment to the remanufacturing center location identified in the TPPL. ECU Cores returned without cover P/N 29507676 will be assessed a core deduction.

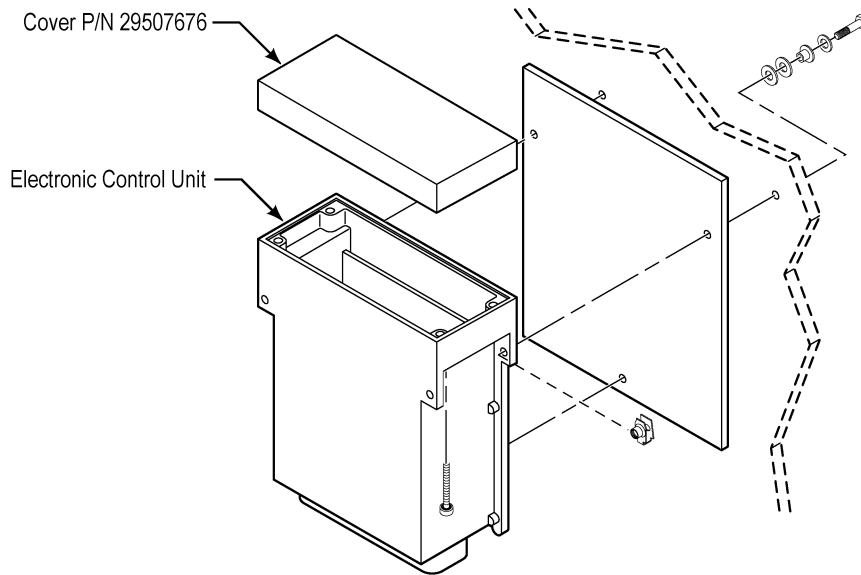


Figure 4. ECU Cover

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