

SIL 6-WT-17
 September, 2017
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Supersedes SIL 10-WT-02

SUBJECT: Release of Remanufactured WTEC II Electronic Control Unit (ECU)

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/N R29517003. Max Feature WTEC II ECU assembly P/N 29517003 and all 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).

Interchangeability:

Former ECU assembly P/N 29517003 and current ECU P/N R29517003 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
29524009	ECU Assembly, remote: Max Feature; w/low crystal
29524010	ECU Assembly, remote: Max Feature; w/high crystal
29516997	ECU Assembly, remote: Basic; w/o clip nuts
29516999	ECU Assembly, remote: Basic; w/metric clip nuts
29517001	ECU Assembly, remote: Max Feature; w/o clip nuts
29517003	ECU Assembly, remote: Max Feature; w/metric clip nuts
29517016	ECU Assembly, integral: Max Feature; w/PBSS
29517040	ECU Assembly, integral: Max Feature; w/LSS; 6RHRF
29517064	ECU Assembly, integral: Max Feature; w/LSS; 5RHRF
29517088	ECU Assembly, integral: Max Feature; w/LSS; 4RHRF

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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.

Shift selector assemblies and ECUs can be replaced separately when an integral Shifter/ECU assembly must be serviced. Only WTEC II ECU P/N R29517003 will be available for servicing these assemblies. Shift Selector/ECU assemblies are cancelled and shall be serviced with the remanufactured ECU and respective WTEC II shift selector part number. Table 2 identifies the shift selectors that are available to be mounted on the P/N R29517003 remanufactured ECU to make an integral assembly.

Table 2. WTEC II Shift Selector, ECU and Integral Shifter/ECU Assembly Numbers

Assembly Description	Max Feature ECU P/N	Shifter P/N	Integral Shifter/ ECU Assemblies (Cancelled)
PBSS	R29517003	29522940	29517016
6RHRF	R29517003	29513429	29517040
6RHRR	R29517003	29513406	NA
6LHRR	R29517003	29511770	NA
5RHRF	R29517003	29513407	29517064
5RHRR	R29517003	29513408	NA
5LHRR	R29517003	29511771	NA
4RHRF	R29517003	29513409	29517088
4RHRR	R29517003	29513410	NA

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 with the most recent version of the Calibration Identification Number (CIN) that was in the old ECU. The replacement ECU can also be calibrated with the most recent version of the CIN superseding the one in the old ECU.

All CINs for replacement ECUs will begin with 08. To update a CIN beginning with 07, change the beginning of the CIN to 08 and increment the last character by 1. For example, CIN 07-00152-003-J will update to 08-00152-003-K. The J increases by 1 character to K. 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. Consult with your Allison distributor or dealer for the nearest ECU Recalibration Center.

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 1) to ensure no static electricity discharge damage will occur to the ECU or Shifter.



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Figure 1. 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 2.



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 and tighten the four Torx® head screws.
3. Calibrate the replacement ECU with the most recent version of the CIN that was in the old ECU or with the most recent version of the CIN superseding the one in the old ECU.

All CINs for replacement ECUs will begin with 08. To update a CIN beginning with 07, change the beginning of the CIN to 08 and increment the last character by 1. For example, CIN 07-00152-003-J will update to 08-00152-003-K. The J increases by 1 character to K. 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. Consult your Allison distributor or dealer for the nearest ECU Recalibration Center.

4. Reinstall any support hardware that was removed during this repair (clip nuts, screws, etc.).

Core Handling Procedures:

As outlined in TPPL 16-TPPL-09, there is a core fee associated with the purchase of P/N R29517003. The Remanufactured ECU is shipped in the remote configuration with metallic cover P/N 29507676. When P/N R29517003 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.

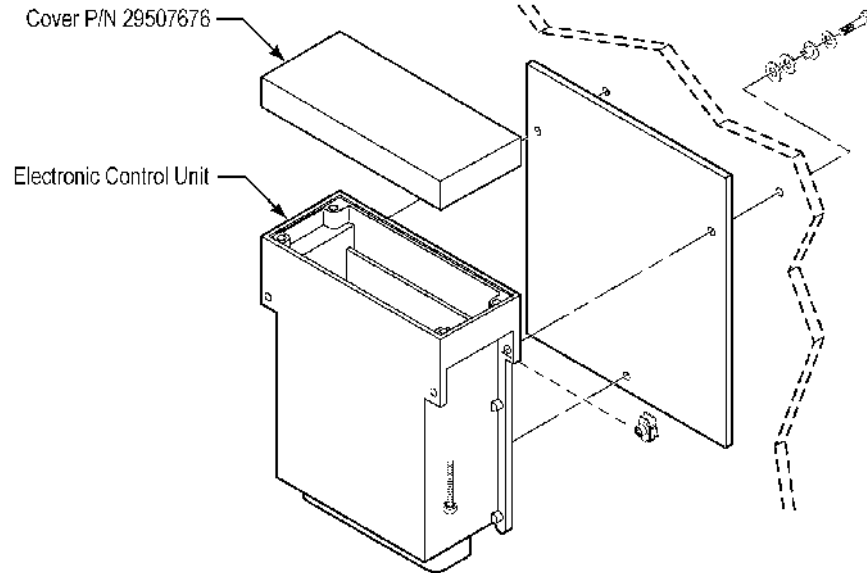


Figure 2. ECU Cover

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