

Unit Exchange Program Guide APSL0419

December 2018

Featuring U.S. and Canadian program instructions for
Fuller® Remanufactured Transmissions
Fuller New and Remanufactured Electronics
Fuller New Exchange Transmissions
Eaton® Clutches
Eaton® Hybrid Power Electronic Carriers (PEC)



Powering Business Worldwide

BACKED BY
Roadranger
SUPPORT

NOTE: This publication supercedes all other Parts Marketing Bulletins relevant to Core & Warranty Return Information.

Including Bulletins:

TPMB0101 dated 2-22-01

TPMB0104 dated 7-15-01

and any other "Unit Exchange Program Guide" published prior to December, 2010.

Check with your OEM to see if they have a return policy that would override the policies in this publication.

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Introduction

About this publication

This guide is your reference for policies, procedures and core values for transmission and clutch products offered as part of the Roadranger® Unit Exchange Program in effect at the time of publication. Except where otherwise noted, all information contained in this publication applies equally to Fuller® Transmission models and Eaton® Clutch models. Specific policies and procedures are subject to change without notice at the discretion of Eaton Corporation.

Questions concerning subjects not covered in this publication can be referred to Roadranger Call Center in the U.S. at 1-800-826-4357 and in Canada at 1-888-507-1500.

Ordering Procedures

All orders for Roadranger unit exchange products should be placed primarily through your OEM.

“Truck down” orders may be placed directly with Eaton (before 8:00 PM Eastern Standard Time) if inventory is unavailable through your OEM. Distribution centers have been located throughout the United States to expedite your unit delivery.

NOTE: If you place your order by 1 PM EST, your order will be shipped the same day, if unit is available.

1-800-826-HELP (4357)

In U.S.A:

Truck Down Orders 1-800-826-HELP (4357)

In Canada (until 7 p.m. EST):

Truck Down Orders 1-888-507-1500

Please refer to the parts publications shown below for specific model ordering information:

Product	Reference Publication
- Fuller Reman and Fuller Transmission Exchange	TRMT0951
- Eaton Clutches	CLFD1292

Product Modification

Fuller Transmission –

Product modifications made without express approval by Eaton, other than to install speedometer parts, clutch housing, shift bar housing or an output yoke, may affect warranty coverage – and the facility making the modification can be held responsible.

Eaton Clutches-

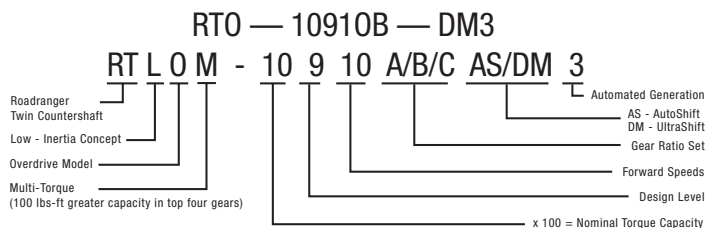
Product modification is not allowed. The complete installation cannot be modified.

Nomenclature – Automated

New Nomenclature System Components

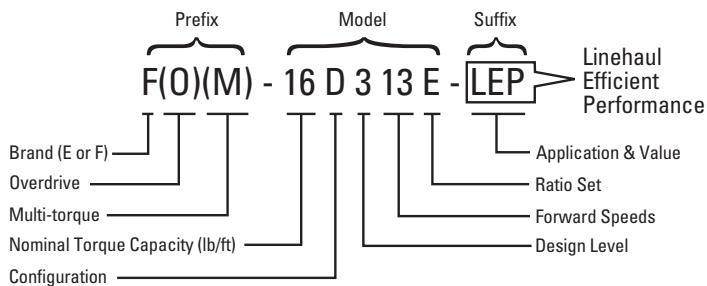
- Prefix
 - F for Fuller®: All medium-duty and heavy-duty UltraShift® products in North America and Australia
 - E for Eaton: All other products (including UltraShift outside North America and Australia)
 - Parenthetical letters such as (O) and (M) indicate provisions for Overdrive, Multi-Torque and other configurations
- Model Designator
 - Nominal Torque Capacity (lb/ft for North America and Australia)
 - Configuration: alpha designator A,B,C,D...for launch device and other system components
 - Design Level: numeric designator describes mechanical and electronic design levels
 - Gear Ratio Set: alpha designator (unchanged)
 - 3-Letter Suffix: denotes application and value

Heavy-Duty Automated Example



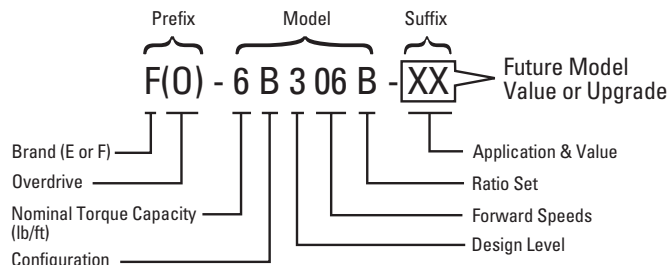
Heavy-Duty UltraShift Example

Example: Fuller UltraShift Linehaul Efficient Performance (LEP)



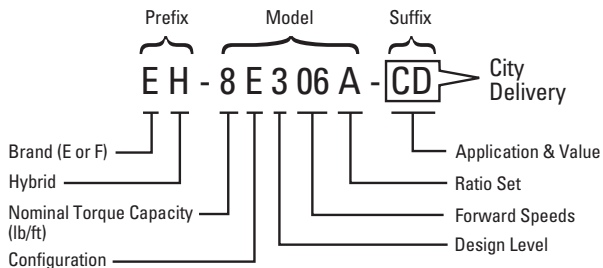
Medium-Duty UltraShift Example

Example: Fuller UltraShift XX (for future use as new products and significant upgrades are introduced)



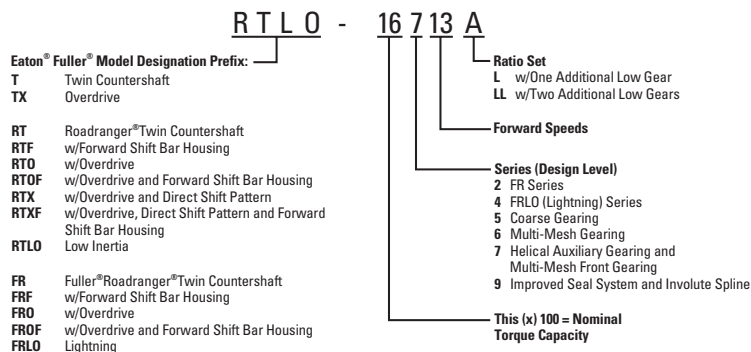
Hybrid Power System Example

Example: Eaton Hybrid City Delivery (CD)

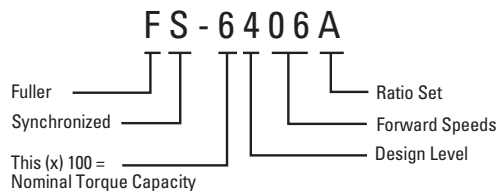


Nomenclature – Manual

Heavy-Duty Example



Medium-Duty Example



Heavy-Duty Transmission Core Return Procedures

General Policies

All cores should be returned freight collect within 12 months of purchase to the designated Eaton core return location. (See map, page 14.)

Warranty units must be returned to the designated location with completed return documentation. (See page 15 for specific instructions.)

Core Return Criteria:

- Only one core can be returned for every one transmission purchased having a core charge.
- Heavy-duty transmission core returns must match the core group of the unit purchased. See core groups listed on this page.
- Prior Eaton approval required for any core upgrade.
- Customer will be credited the value of unit returned.
- Cores cannot be “banked” or returned in excess of units purchased.

If possible, return the core with the pallet and/or original container received with the unit, and properly secure the core to the pallet. Damage in shipment due to negligence in packaging will be the responsibility of the dealer.

When returning a non-warranty core, use the OEMs core consolidator or ship the core collect to the designated Eaton core return location using an Eaton approved freight carrier (see page 14). Use of any freight carrier other than those approved will result in \$100 being deducted from core credit.

Transmission Core Evaluation

1. Determine the core model. Transmission cores with mismatched front and auxiliary sections assume the core value of the lesser model.
2. Verify that the core is complete. Warranty cores do not need to be assembled. Required items include; main case and range section, shift bar housing, and all internal components.
3. Remove and retain other external equipment and accessories.
4. See page 9 for instructions on how to locate eligible models online.
5. All transmissions with a core value are assigned to groups based upon the core value of the units.

Core Groups

300A				
1000A	1000B			
1500A	1500B	1500C	1500D	1500E
2200A	2200B	2200C		
3000A	3000B			
4000A	4000B	4000C	4000D	
6000A				

With each purchase of a transmission, core eligibility will be applied against a specific core group of equal value to the core charged.

The OEM will have 12 months to return a core against credit in any core group. When the OEM/dealer returns a core, eligibility will be checked against the core group for the value of the core returned. If eligibility exists within that group, core credit will be applied equal to the core value of the unit returned, minus any deductions. If the OEM does not have eligibility within the core group, the core will be returned, freight collect, scrapped or offer to purchase (if preauthorized).

Transmission Core Deductions

- | | |
|--|-------|
| - Failure to completely drain | \$100 |
| - Failure to use approved freight carriers for returned core | \$100 |

Medium-Duty Transmission Core Return Procedures

General Policies

All cores should be returned freight collect within 12 months of purchase to the designated Eaton core return location. (See map, page 14.)

Warranty units must be returned to the designated location with completed return documentation. (See page 15 for specific instructions.)

Core Return Criteria:

- Only one core can be returned for every one transmission purchased having a core charge.
- Medium-duty transmission core returns must match the core group of the unit purchased. See core groups listed on this page.
- Prior Eaton approval required for any core upgrade.
- Customer will be credited the value of unit returned.
- Cores cannot be “banked” or returned in excess of units purchased.

If possible, return the core with the pallet and/or original container received with the unit, and properly secure the core to the pallet. Damage in shipment due to negligence in packaging will be the responsibility of the dealer.

When returning a non-warranty core, use the OEMs core consolidator or ship the core collect to the designated Eaton core return location using an Eaton approved freight carrier. Use of any freight carrier other than those approved will result in \$100 being deducted from core credit.

The following instructions are necessary to conduct proper evaluation of cores. Steam cleaning, which is recommended by Eaton prior to returning the core, should precede the evaluation to allow a more thorough and accurate inspection.

Transmission Core Evaluation

1. Determine the core model.
2. Make a thorough external inspection for visible cracks. Look closely at highly stressed areas around capscrew holes, rear transmission support studs, etc.
3. Verify that the core is complete. Warranty cores do not need to be assembled. Required items include; main case section, shift bar housing, and all internal components.
4. Remove and retain other external equipment and accessories.
5. See page 9 for instructions on how to locate eligible models online.
6. All transmissions with a core value are assigned to groups based upon the core value of the units.
7. Heavy Duty cores will not be accepted for Medium-Duty core eligibility.

Core Groups

600 800 1000 1750

With each purchase of a transmission, core eligibility will be applied against a specific core group of equal value to the core charged.

The OEM will have 12 months to return a core against credit in any core group.

When the OEM/dealer returns a core, eligibility will be checked against the core group for the value of the core returned. If eligibility exists within that group, core credit will be applied equal to the core value of the unit returned, minus any deductions. If the OEM does not have eligibility within the core group, the core will be returned, freight collect, scrapped or offer to purchase (if preauthorized).

Manual transmissions received without the original serial tag will be placed in core groups based upon the part number of the output shaft.

Output Shaft Part Number	Core Group
4301468	600
4304549	800

Transmission Core Deductions

- Failure to completely drain \$100
- Failure to use approved freight carriers \$100

Transmission Core Return Shipping Weights

HEAVY-DUTY MECHANICAL AND SEMI-AUTOMATED MODELS/SERIES	APPROX. CORE WEIGHT (LBS.)
RT-6609, 8609	480
FRLO-14410C-T2, 15410C-T2, 16410C-T2	630
RT-6613	655
T-14607, RT-8709, 8608L, 11609B/P/R, 12609B/P/R, 12709, 13609A, 13609B, 14709H	685
RT-13709	690
FR-9210, 12210, 13210, 14210	695
RT-7608LL	700
FR-15210, 16210, 17210, 18210, RTO-16210C, RT-9710	705
RT-12710, RT-14609B, RT-14709	710
RT-16709B,H, RTOC-16709A	720
RTLO-13610B/T2, 11610B-T2, 12610B/T2	725
RT-6610, RTLO-14610/T2, 15610B-T2, 16610B/T2, 17610B-T2, 18610B-T2	730
RTLO-15710, 16710	735
RTLO-14613B	765
RT-11709MLL, 11909MLL, 14709MLL, 14909A/MLL, 16909ALL	775
RT-13710, RTL-13710B	785
RTLO-14710, RTL-14710B/T2, RT-8908LL, 11908LL, 14908LL, 16908LL, 16909A/T2	790
RT-14715, 14915, 15715, 16915, 14708LL	800
RT-14615, 15615	805
RTLO-12713A, 14713A/T2, 12913A, 14913A	815
RTLO-16713A/T2, 16913A, 18913A/T2, 20913A, RTLO-14618A, 14718B/T2, 16718/T2, 18718B/T2, 14918B, 16918B, 18918B, 20918B, 22918B	820
RTLO-16618A, RTLC-16609E, 11708LL	850

HEAVY-DUTY FULLY AUTOMATED MODELS/SERIES (WITH ELECTRONICS)	APPROX. CORE WEIGHT (LBS.)
F-5405B-DM3, 6405B-DM3	528
FM-14D310B-LST, 15D310B-LST	892
FO-16D313E-LEP	955
FOM-16D313E-LEP	955
RTO-10910B-AS3, 12910B-AS3	821
RTO-14910B/C-AS3	873
RTO-16910B/C-AS3, 18910B-AS3	874
RTO-10910B-DM3, 12910B-DM3	885
RTO-14910B-DM3, 16910B-DM3	892
RTOM-16910B-DM3	892
RTLO-16913L-DM3	955
RTLO-1418A-AS3, 16918A-AS3, 18918A-AS3, 20918A-AS3, 22918A-AS3	969
RTL0M-16913L-DM3	955

*** Notes:**

- 1) Subtract 20 pounds for units shipped without electronics.
- 2) Add 20 additional pounds to DM models with inertia brake.

HEAVY-DUTY AUTOMATED MODELS	APPROX. CORE WEIGHT (LBS.)
FO-14E308LL-VCS, 16E308LL-VCS, 17E308-LL-VCS	950
FO-14E309ALL-VMS, 16E309ALL-VMS, 17E309ALL-VMS	950
FO-14E318B-VXP, 16E318B-VXP, 18E318B-VXP, 20E318B-VXP	950
FO-14E313A-MHP, 16E313A-MHP, 18E313A-MHP, 20E313A-MHP	950
FO-14E318B-MXP, 16E318B-MXP, 18E318B-MXP, 20E318B-MXP, 22E318B-MXP	950
FO-14E310C-LAS, 16E310C-LAS	950
FOM-14E310C-LAS, 15E310C-LAS, 16E310C-LAS	950
FM-14E310B-LAS, 15E310B-LAS	950

MEDIUM-DUTY MANUAL AND AUTOMATED MODELS	APPROX. CORE WEIGHT (LBS.)
FS-5306, FS-5406, FS-6306, FS-6406	345
FSO-8406	356
F-6406N-ASW, F-6406N-AW3, FO-6406A-ASW, FO-6406A-AW3, FO-8406A-ASW, FO-8406A-AW3	602

Note: This list is periodically updated. The most current information can be found at <http://www.roadranger.com/rr/Aftermarket/PriceLists/index.htm>

Determining Transmission Core Values by Model

Only models listed on the website are acceptable for return. As models are added to the program, new core values will also be established and posted on the website:
<http://www.roadranger.com/rr/Aftermarket/PriceLists/index.htm>

Steps:

1. Go to <http://www.roadranger.com/rr/Aftermarket/PriceLists/index.htm>
2. Enter the transmission part number or model number with % signs on both sides of the number as shown below.
3. Click on radial button "Part Number" or "Model Number" respectively.
4. Click on the "Submit" button.

Price Lists		Parts Price			
Part number	Description / Replacement Part	Notes	List Price	# of Units	Core Value
RTLO16713A-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLO16913A-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLO18718B-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLO18913A-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLO18918B-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLO20918B-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLOF16713A-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLOF16913A-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLOF18718B-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLOF18913A-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLOF18918B-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLOF20918B-P-NEW	ECN#: Lewis / Fouch Obsolete Date: 31-AUG-2016				
RTLO16713A-P	RTLO-16713A TRANSMISSION				CORE 2200
RTLO16913A-P	RTLO-16913A TRANSMISSION				CORE 3000
RTLO18718B-P	RTLO-18718B TRANSMISSION				CORE 2200
RTLO18913A-P	RTLO-18913A TRANSMISSION				CORE 3000
RTLO18918B-P	RTLO-18918B TRANSMISSION				CORE 3000
RTLO20918B-P	RTLO-20918B TRANSMISSION				CORE 3000
RTLOF16713A-P	RTLOF-16713A TRANSMISSION				CORE 2200
RTLOF16913A-P	RTLOF-16913A TRANSMISSION				CORE 3000
RTLOF18718B-P	RTLOF-18718B TRANSMISSION				CORE 2200
RTLOF18913A-P	RTLOF-18913A TRANSMISSION				CORE 3000
RTLOF18918B-P	RTLOF-18918B TRANSMISSION				CORE 3000
RTLOF20918B-P	RTLOF-20918B TRANSMISSION				CORE 3000

Transmission Part Descriptions
 (Examples: RTLO-18918A-AS2, RTLOF-16918B)
 R = ROADRANGER
 T = TWIN COUNTERSHAFT
 L = LOW INERTIA
 O = OVERDRIVE
 F = FORWARD SHIFT BAR HOUSING
 22 = TORQUE TIMES 100
 9 = DESIGN LEVEL
 18 = FORWARD GEARS
 B = RATIO

The result's page will show the "core value" in the far right hand column. If the search shows no results, the core you are returning either a) has no core value; or b) the part number or model number was entered incorrectly.

Transmission Electronic Core Return Procedures (Heavy- and Medium-Duty)

For dealers using core consolidators, please see your OEM's guidelines for returning cores. For warranty return parts, please see your OEM's guidelines for returning cores.

1. All component returns are like-for-like and one-for-one as electronic components are not interchangeable between other components.
2. Cores returned within twelve (12) months of purchase receive full core credit minus any deductions. Cores returned after twelve (12) months receive no credit.
3. Refer to the list below for deductions value. Disassembling the core is not necessary to determine core value and may result in loss of core value.
4. Except as noted above, cores must be returned per the instructions in the electronic core packet provided with the replacement part. Note the return location for electronics is different than transmission units.

Electronic Parts Warranty:

One year unlimited mileage from date of retail sale on new, Reman and exchange electronics.

Electronic Parts Core Value and Deductions:

NOTE: All core values in USD, core value for electronics purchased in Canada will carry the currency exchange rate.

Core Value

\$250 Core Value – All Transmission Mounted ECUs

\$100 Core Value – Pushbutton System Manager

\$325 Core Value – Transmission ECAs

Core Deductions

100% Deduction – Cracked or Broken Connectors

Cracked or Broken Housings

Lever Broken or Cracked

Send Electronic Cores to: (except as noted previously)

In the U.S. return core to:

Eaton Corporation
C/O Flight Systems
509 Industrial Drive
Lewisberry, PA 17055

In Canada return core to:

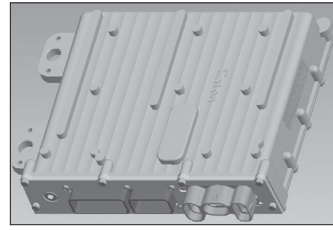
Eaton Truck Components
Core Return Center
2160 Williams Parkway
Brampton, ON
Canada L6S 5X7
Freight Carrier: Purolator Terms: Collect

Returning warranty cores to Lewisberry, PA address will result in non-payment of a warranty claim.

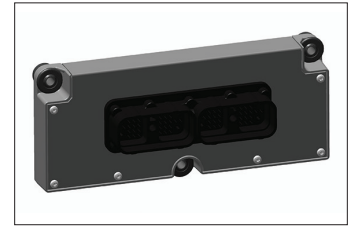
For all transmission electronics purchased directly from one of the Eaton locations in Canada, you must provide a copy of the packing slip with the core return.

DESCRIPTION	WEIGHT (LBS.)
Gen 1 & Gen 2 Controller/Gen 3	9.5
Lightning ECU	5
System Manager	1.2
Push Button Controls	1
ECA	18

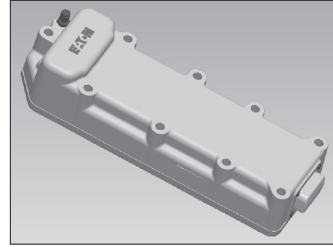
Parts Description:



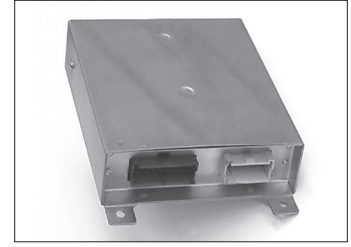
Gen 1, Gen 2 Controller – \$250 Core Value



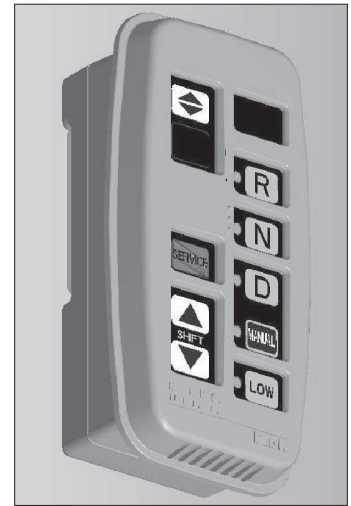
Gen 3 Controller – \$250 Core Value



Lightning® ECU – \$250 Core Value



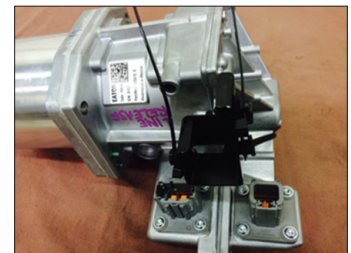
System Manager – \$100 Core Value



All Pushbutton Controls – \$100 Core Value



Gen 1 ECA – \$325 Core Value



Gen 2 ECA – \$325 Core Value

Electronic Item Numbers Eligible for Core Return:

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
B-1000122501RX	REMAN EXCHANGE, SYS MGR ASSY	K-3948	KIT, TRANSMISSION CONTROLLER
B-3000423700RX	REMAN EXCHANGE, SYS MGR ASSY	K-3986	HYBRID CONTROLLER KIT (T)
K-2609RX	REMAN EXCHANGE TRANSMISSION CONTROLLER KIT	K-3986RX	HYBRID CONTROLLER KIT (T), REMAN / EXCHANGE
K-2856RX	REMAN EXCHANGE TRANSMISSION CONTROLLER KIT	K-3995	KIT, ECU ASSEMBLY (LAS) OD "C"
K-3284RX	REMAN EXCHANGE TRANSMISSION CONTROLLER KIT	K-3996	KIT, ECU ASSEMBLY (LAS) DIRECT "B"
K-3353RX	REMAN EXCHANGE TRANSMISSION CONTROLLER KIT	K-4019	KIT, TRANSMISSION CONTROLLER (CDG)
K-3435RX	REMAN EXCHANGE TRANSMISSION CONTROLLER KIT	K-4019RX	TRANSMISSION CONTROLLER KIT (CDG), REMAN / EXCHANGE
K-3439RX	REMAN EXCHANGE TRANSMISSION CONTROLLER KIT	K-4020	KIT, TRANSMISSION CONTROLLER (CDR)
K-3449RX	REMAN EXCHANGE TRANSMISSION CONTROLLER KIT	K-4020RX	TRANSMISSION CONTROLLER KIT (CDR), REMAN / EXCHANGE
K-3505RX	REMAN EXCHANGE TRANSMISSION CONTROLLER KIT	K-4021	KIT, TRANSMISSION CONTROLLER (EH-6E606B-P/CD)
K-3707RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4021RX	TRANSMISSION CONTROLLER KIT (EH-6E606B-P/CD), REMAN / EXCHANGE
K-3708RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4032	KIT, HYBRID CONTROLLER (CDG)
K-3709RX	KIT, REMAN EXCHANGE TRANSMISSION CONTROLLER	K-4032RX	HYBRID CONTROLLER KIT (CDG), REMAN / EXCHANGE
K-3710RX	KIT, REMAN EXCHANGE TRANSMISSION CONTROLLER	K-4033	KIT, HYBRID CONTROLLER (CDR)
K-3711RX	KIT, REMAN EXCHANGE TRANSMISSION CONTROLLER	K-4033RX	HYBRID CONTROLLER KIT (CDR), REMAN / EXCHANGE
K-3712RX	KIT, REMAN EXCHANGE TRANSMISSION CONTROLLER	K-4034	KIT, HYBRID CONTROLLER (LOW PROFILE-P)
K-3713RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4034RX	HYBRID CONTROLLER KIT (LOW PROFILE-P), REMAN / EXCHANGE
K-3714RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4039	KIT, HYBRID CONTROLLER (LOW PROFILE-CD)
K-3715RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4039RX	HYBRID CONTROLLER KIT (LOW PROFILE-CD), REMAN / EXCHANGE
K-3716RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4043	KIT, RELAY BOX / BATTERY CONTROLLER
K-3717RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4043RX	RELAY BOX / BATTERY CONTROLLER, REMAN / EXCHANGE
K-3736RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4065	KIT, INVERTER (EHS)
K-3737RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4065RX	INVERTER (EHS), REMAN / EXCHANGE
K-3766RX	KIT, REMAN EXCH TRANS CONTROLLER	K-4138	KIT, ECU ASSY (VAS)
K-3787	HYBRID CONTROLLER KIT (P/D)	K-4139	KIT, ECU ASSY (VHP)
K-3787RX	HYBRID CONTROLLER KIT (CD), REMAN / EXCHANGE	K-4194RX	KIT, REMAN EXCH TRANS CONTROLLER
K-3788	HYBRID CONTROLLER KIT (U)	K-4195RX	KIT, REMAN EXCH TRANS CONTROLLER
K-3788RX	HYBRID CONTROLLER KIT (U/P), REMAN / EXCHANGE	K-4196RX	KIT, REMAN EXCH TRANS CONTROLLER
K-3789	HYBRID CONTROLLER KIT (UP)	K-4197RX	KIT, REMAN EXCH TRANS CONTROLLER
K-3789RX	HYBRID CONTROLLER KIT (UP), REMAN / EXCHANGE	K-4198RX	KIT, REMAN EXCH TRANS CONTROLLER
K-3790	HYBRID CONTROLLER KIT (UPG)	K-4199RX	KIT, REMAN EXCH TRANS CONTROLLER
K-3790RX	HYBRID CONTROLLER KIT (UPG), REMAN / EXCHANGE	K-4200RX	KIT, REMAN EXCH TRANS CONTROLLER
K-3797	TRANSMISSION CONTROLLER KIT (CD)	K-4210	KIT, ECU ASSEMBLY (LSE)
K-3797RX	TRANSMISSION CONTROLLER KIT (CD), REMAN / EXCHANGE	K-4215	KIT, ECU ASSEMBLY
K-3798RX	TRANSMISSION CONTROLLER KIT (U), REMAN / EXCHANGE	K-4225	KIT, ECU ASSEMBLY
K-3799	TRANSMISSION CONTROLLER KIT (UP)	K-4241	KIT, ECU ASSEMBLY
K-3799RX	TRANSMISSION CONTROLLER KIT (UP), REMAN / EXCHANGE	K-4252	Gen 2 ECA KIT
K-3800	TRANSMISSION CONTROLLER KIT (UPG)	K-4253	Gen 2 ECA KIT
K-3800RX	TRANSMISSION CONTROLLER KIT (UPG), REMAN / EXCHANGE	K-4254	Gen 2 ECA KIT
K-3911	KIT, TRANSMISSION, CONTROLLER	S-2818RX	REMAN EXCHANGE, LIGHTNING ECU ASSY
K-3912	KIT, TRANSMISSION, CONTROLLER	S-2973RX	REMAN EXCHANGE, LIGHTNING ECU ASSY
K-3930	KIT, ECU ASSEMBLY (VCS)	S-2989RX	PUSHBUTTON ASSEMBLY, REMAN
K-3931	KIT, ECU ASSEMBLY (VMS)	S-2990RX	PUSHBUTTON ASSEMBLY, REMAN
K-3932	KIT, ECU ASSEMBLY (VXP)	S-2991RX	PUSHBUTTON ASSEMBLY, REMAN
K-3933	KIT, ECU ASSEMBLY (MXP)	S-3005RX	PUSHBUTTON ASSEMBLY, REMAN
K-3934	KIT, ECU ASSEMBLY (MHP)		

Note: This list is periodically updated. The most current information can be found at <http://www.roadranger.com/rr/Aftermarket/PriceLists/index.htm>

Hybrid Power Electronics Carrier (PEC) Medium-Duty

1. Return all PEC cores directly back to Eaton. Do not use your OEM core consolidator to return PEC cores.
2. All component returns are like-for-like and one-for-one as electronic components are not interchangeable between other components.
3. Cores returned within 90 days of purchase receive full core credit minus any deductions. Cores returned after 90 days receive no credit.
4. Refer to the list below for deductions value. Disassembling the core is not necessary to determine core value and may result in loss of core value.
5. Cores must be returned per the instructions in the PEC core packet provided with the replacement part. Note the return location for PEC is different than transmission units.
6. PEC contains high voltage energy. Use caution and proper protective equipment at all times. Only authorized personnel should handle/work on PECs. Refer to service manuals (TRSM1000 and TRSM2000) for safety alerts and procedures.
7. PEC contains hazardous material; all shipments must comply with 49CFR DOT regulations.

PEC Parts Warranty:

One year unlimited mileage from date of retail sale on Reman and exchange PECs.

PEC Parts Core Value and Deductions:

NOTE: All core values in USD, core value for PEC purchased in Canada will carry the currency exchange rate.

CORE VALUE \$6500

\$200 each Deduction	Cracked or Broken Connector
\$300 Deduction	Dented/Cracked/Broken Housing
\$300 Deduction	Painted Housing
\$500 Deduction	Not Shipped in Crate/Original Container Received with Unit
\$500 Deduction	Failure to use Approved Freight Carrier
75% Reduction	PEC Opened/Disassembled
\$100 Deduction	Green Tag Not Filled out or Attached to Core

Send PEC Cores to:

In the U.S.:

Eaton PEC Core Return EFLN# 002059
50 NE 42nd Street
Oklahoma City, OK 73105
(Third party, use Old Dominion)

In Canada:

Eaton PEC Core Return EFLN# 2121A
2160 Williams Parkway
Brampton, ON L6S 5X7
Canada
Freight Carrier: Call Eaton at 1-888-507-1500

For all PECs purchased directly from one of the Eaton locations in Canada, you must provide a copy of the packing slip with the core return.

PEC Core Freight Return:

Return all U.S. cores using the prepaid return label included in the core return packet. PEC contains hazardous material; all shipments must comply with per 49CFR DOT regulations.

PART NUMBER	WEIGHT DESCRIPTION	(LBS./KG)
2 Battery		
K-4041, K-4041R, K-4127 (A-8103)	PEC Assembly Kit	342/155
K-4042, K4042R, K-4128 (A/8104)	PEC Assembly Kit	342/155
K-4053R	Reman MY08 PEC (UPG)	342/155
K-4116, K-4116R, K-4132 (A-8254)	PEC Assembly Kit	342/155
K-4117, K-4117R, K-4133 (A-8257)	PEC Assembly Kit	342/155
4 Battery		
K-4136 (A-8149)	PEC Assembly Kit	507/230

Note: This list is periodically updated. The most current information can be found at <http://www.roadranger.com/rr/Aftermarket/PriceLists/index.htm>



PEC battery assembly

Clutch Core Return Procedures

New Clutches

Eaton does not accept any cores against new purchases. Any cores received ahead of reman purchases will be held for 30 days. If reman purchases are made within the 30 days, credit will be issued against the reman purchase. After 30 days, cores ahead of reman purchases that have not been used, will become the property of Eaton Corporation and no credit will be given.

Reman Clutches

Eaton will credit dealers the following amounts through the O.E.M. for reman core credit:

\$50 for Cast Solo Advantage 15.5"; \$60 for 14" Cast Easy-Pedal™ or Stamped Angle Spring®; \$100 for 15.5" Cast Easy Pedal Advantage; \$50 for 14" Solo; \$60 for 14" DM.

Note: Eaton no longer accepts any old style Cast Angle Spring cores.

Eaton will issue credit providing the following conditions are met:

1. Cast Easy-Pedal, Cast Solo or Stamped Angle Spring clutches remanufactured by Eaton have been purchased.
2. 14" and 15.5" clutch core credits will be issued in equal quantities up to and not to exceed the quantity purchased.
3. Size and type of clutch cores must match the size and type of clutches that were ordered. For example, a 15.5" Easy-Pedal can only be returned for a 15.5" Easy-Pedal.
4. Core returns must be approved by one of our core return centers, and they must be Eaton's Stamped Angle Spring, Easy-Pedal, Solo or DM. Other products are not acceptable.
5. Cores must be returned within 360 days of the original remanufactured clutch purchase. Cores submitted in excess of purchases will be held 30 days for credit against future purchases, after 30 days, cores will become the property of Eaton Corporation and no credit will be issued.
6. Credit will be issued strictly on our acceptance. We reserve the right to refuse any cores that are not in reusable condition. Disposition of material is to be indicated on the core return form. If material is requested back, we will return it freight collect to your location.

Complete assembly is required for 100% credit. No partial credits will be issued.

The Following Will Constitute No Credit Being Allowed:

1. Not Eaton/Fuller
2. Disassembled
3. Welded
4. Broken/Cracked
5. Old Style Cast Angle Spring 14", 15.5" or 14" and 15" ValueClutches™, or Solo 14"
6. Customer Modified Core
7. Excessive Rust

Core Return Procedures

Cores may be returned by third party billing (Eaton), within the Continental U.S. only, on shipments of eight quantities or more. All clutch core shipments under the eight quantities must be shipped freight prepaid. The shipping documents should be marked:

"CORES - CORE ITEM NO. 17850, USED AUTO PARTS, VALUE FOR RECONDITIONING ONLY, AT CLASS 60"

Use core return form supplied by Eaton. A packing list should also be sent listing the cores being returned, along with customer's address and telephone number.

Third party billing shipments must be shipped via Eaton approved carriers. (Find carrier instructions on page 14.)

Core Return Location:

U.S.
Alotech, Inc.
751 S. Church St., Suite B
Goldston, NC 27252
Phone: (919) 774-1297

In Canada, contact OE core consolidator or call 416-213-0131.

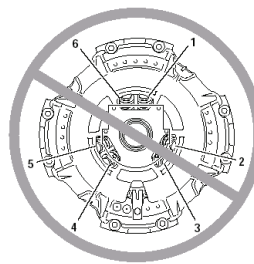
Eaton Clutch Core Return Identification

The number of visible cover assembly springs indicates which cores Eaton will accept.

- | | |
|---|---------------------|
| • 9-Spring Easy-Pedal Style Cores | Accepted |
| • 6-Spring Cast Angle Spring Style Cores | NOT Accepted |
| • Solo Cores | Accepted |

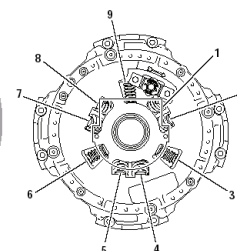


Excessive Rust



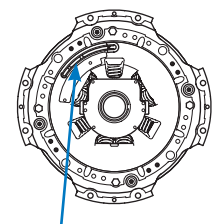
Non Accepted Style

Cast angle spring clutches have 6-springs visible on the back of the cover assembly.



Accepted Style

Easy-Pedal clutches have 9-springs visible on the back of the cover assembly.



Solo Clutch

Solo clutches have a visible wear indicator tab.

Unit Exchange Designated Core Return Locations*

***Non-warranty returns only. See note on page 15 for warranty returns.**

Instructions: Please return core to the collection facility designated for your area. **Use only freight carriers listed by area for the return of cores. Use of an unauthorized freight carrier will result in a \$100 deduction on core credit.** Please note that information provided below is not intended to replace existing core return procedures already available from your OEM. **If more information is needed call 1-800-826-4357. In Canada, call 1-888-507-1500.**

Canada

Western Shipments

Includes all shipments originating west of, but not including, Brandon, Manitoba.

Ship to:

Eaton Industries Company
34 Highland Park Way NE
Unit 16
Airdrie, AB T4A 0R1

Approved freight carriers:

Manitoba (west of Brandon)
Canadian Freightways

Alberta, British Columbia and Saskatchewan
Canadian Freightways

Eastern Shipments

Includes all shipments east of, and including Brandon, Manitoba.

Ship to:

Eaton Truck Components
1455 Michael St. Unit '1'
Ottawa, ON K1B 3R3

Approved freight carriers:

Northern Ontario
Manitoulin Transport

Southern Ontario
EPIC Express

Quebec
Cabano

Maritime Provinces
Day & Ross

Manitoba (east of Brandon)
Canadian Freightways

Electronic Core Returns

Eaton Truck Components
Core Return Center
2160 Williams Parkway
Brampton, ON L6S 5X7

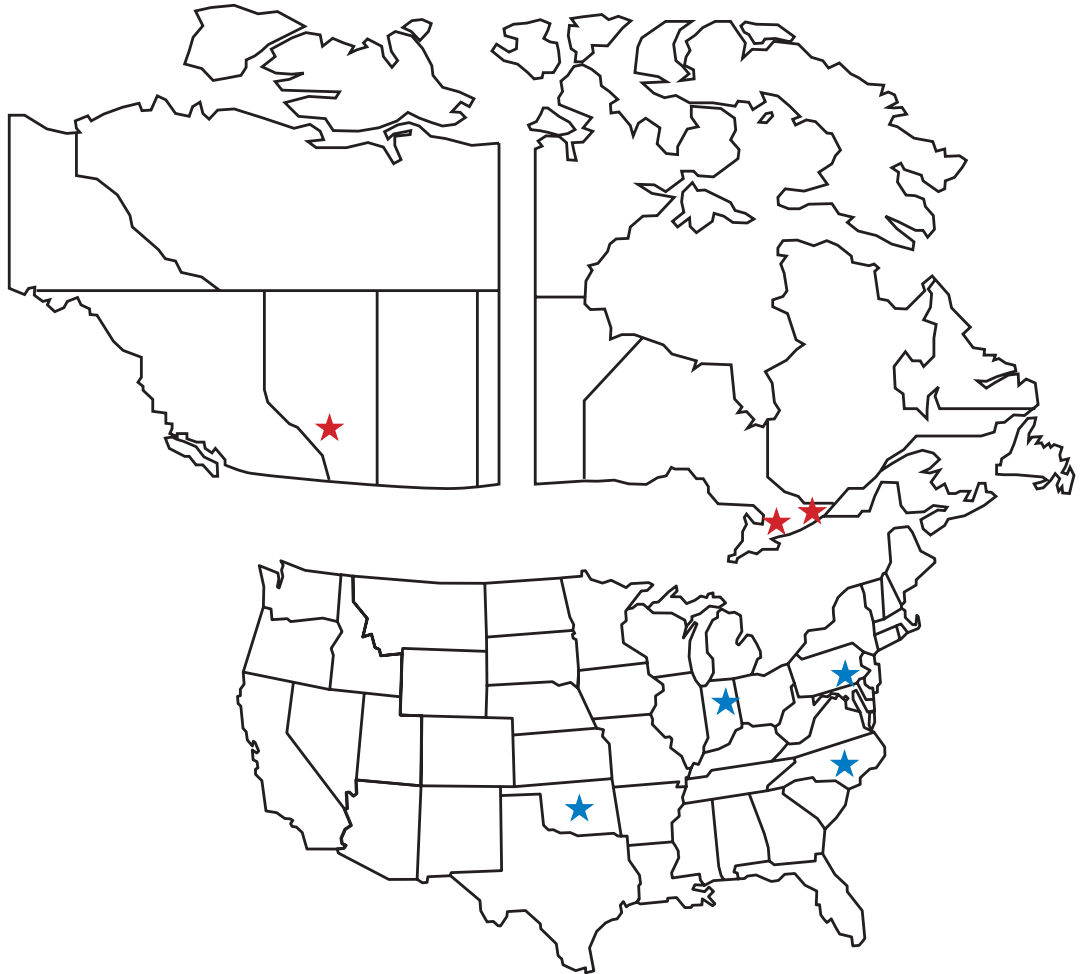
Freight Carrier: Purolator
Terms: Collect

PEC Core Returns

Eaton PEC Core EFLN# 2121A
2160 Williams Parkway
Brampton, ON L6S 5X7

Clutch Core Returns

See your OE core consolidator or call 416-213-0131.



U.S.

Eaton-Approved Freight Carrier

To select proper US-only freight carrier to return transmission and clutches, please contact:

Transplace
1-844-368-7612
EatonLCC@transplace.com

Instructions:

1. Contact Transplace.
2. Setup an account with Transplace as necessary.
3. Provide shipment information
4. Add EFLN "002070" in "Bill To" section of the BOL.

Transmission Core Returns (Non-Warranty Returns Only)

MVP Inc.
804 Hazlett St.
Anderson, IN 46016

Electronic Core Returns

Eaton Corporation
c/o Flight Systems
509 Industrial Drive
Lewisberry, PA 17055

PEC Core Returns

Eaton PEC Core EFLN# 002059
50 NE 42nd Street
Oklahoma City, OK 73105
(Third party, use Old Dominion)

Clutch Core Returns

Alotech, Inc.
751 S. Church St., Suite B
Goldston, NC 27252

Warranty Information

Knowing and understanding Roadranger warranty is the responsibility of the vehicle owner. It is also the responsibility of the selling dealer to identify the Roadranger products in the vehicle and inform the purchaser of the warranty for those products, based on the vehicle vocation, at the time of sale.

The combined use of the Roadranger Warranty Manual TCWY0600 and the Roadranger Warranty Guide TCWY0900 expresses Eaton component time and mileage warranty coverage for the Roadranger system products.

TCWY0600, Roadranger Warranty Manual

Note: Printed copies of this document are not controlled.
Please refer to the electronic copy on Roadranger.com for the most up-to-date information.

The Roadranger Warranty Manual TCWY0600 documents the specifics of Roadranger product warranty. This manual includes:

- Product Warranty Statements for the Eaton Truck Group
- Warranty terminology
- Warranty programs
- Claim procedures and claim information
- Important information regarding claim approval
- Component repair or replacement guidelines
- Labor hour guidelines (SRT's)
- Limits, exclusions, and requirements
- Other important resources

TCWY0900, Roadranger Warranty Guide

Roadranger component warranty is identified using the Roadranger Warranty Guide TCWY0900. The Warranty Guide explains Roadranger vocation definitions, component time and mileage limits per vocation, aftermarket component / part warranties, and extended purchase warranty options. You can access this guide on www.eaton.com/roadranger.

How do I define my vocation coverage?

1. Review all the "Vocational Definitions" listed and select the one that most accurately describes the use and configuration of the vehicle.
2. Ensure your vehicle vocation is listed in the "Typical Vehicle Types" under the selected Vocational Definition.
3. Once the vocation is defined refer to the "Product Time and Mileage Coverage per Vocation" section.
4. Identify the component in question using the product model number for the time and mileage coverage.
5. Refer to and understand any notes that pertain to a specific coverage (i.e. lube requirements).
6. If you cannot determine coverage, contact your Roadranger Representative or call the Roadranger Call Center at the time of sale at 1-800-826-HELP (4357).

TMIB0129, Warranty Part Return

Service bulletin TMIB0129 contains shipping (routing) instructions for warranty part and unit returns. Available on www.roadranger.com.

Unit Exchange Program Guide



BACKED BY

Roadranger

SUPPORT

**For spec'ing or service assistance,
call 1-800-826-HELP (4357) or visit
www.eaton.com/roadranger.
In Mexico, call 001-800-826-4357.**

Roadranger: Eaton and trusted partners providing the best products and services in the industry, ensuring more time on the road.

Eaton

Vehicle Group
13100 E. Michigan Ave.
Galesburg, MI 49053 USA
800-826-HELP (4357)
www.eaton.com/roadranger

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