

Clutch Factory Direct Program United States and Canada CLFD1292

January 2024



Powering Business Worldwide

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Roadranger
SUPPORT

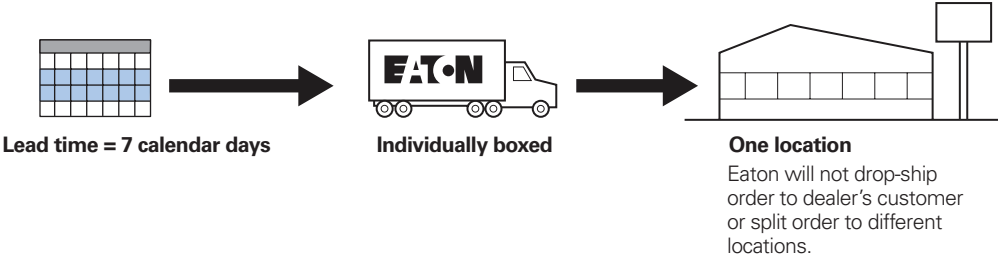
Factory Direct Program Instructions

Use this guide to order clutches from the Factory Direct Program

- 1** Choose from clutches in the Factory Direct Program using the charts on pages 4, 5 and 6:
- Receive price breaks for orders of 8, 24, 36, 144, and 288.
 - Visit www.eatonpartsonline.com for additional help selecting Eaton clutches.

The image shows a complex selection chart titled "Eaton Factory Direct Heavy-Duty Clutch Selector". It includes multiple columns for different clutch types and specifications, with a grid of data points. The chart is designed to help users select the appropriate clutch based on their requirements.

- 2** Order **at least 8** clutch assemblies (**Mix and Match**).
- 3** Use normal Factory Direct ordering channels.
Freight will be prepaid*.
- 4** Shipped from the Eaton location 7 calendar days from receipt of the order.



- *Freight Terms:
- Continental U.S., Canada, and Mexico: F.O.B. origin, freight prepaid.
 - Alaska, Hawaii and U.S. Territorial Possessions: F.O.B. Origin, freight prepaid to the port of export; collect from port of export to destination.
 - Special requests to ship via air, UPS, etc. will be shipped prepaid and shipping charges will be added to invoice.

Additional Available Products



Clutch Brakes, Clutch Installation Kits, Drive Pins and Lube Tubes

The part numbers listed below can be ordered along with clutch assemblies. However, these products cannot be used to meet minimum order requirements of (8) clutch assemblies.

Concentric Pneumatic Clutch Actuators (CPCA)

DESCRIPTION	PART NO.
Clutch actuator for Detroit DT12	K-4515CL
Clutch actuator for Volvo I-Shift/Mack mDRIVE	K-4516CL

Clutch Brakes

SPLINE	DESCRIPTION	PART NO.	ORDER DETAILS
1.75" – 10	Torque Limiting	127740	order in multiples of 5
2" – 10	Kwik-Konnect®	127200	order in multiples of 5
	Torque Limiting	127760	order in multiples of 5
	Kwik-Konnect®	127200-20	20-piece box
	Torque Limiting	127760-50	50-piece box

Clutch Installation Kits

DESCRIPTION	PART NO.	ORDER DETAILS
RT Series	K-2468CL	order in single quantities
FR Series	K-3600CL	order in single quantities

Drive Pins

DESCRIPTION	PART NO.	ORDER DETAILS
Drive pin	274C6	order in multiples of 6
300 Drive pins	274C6-300	50 six-piece bags

Lube Tubes

DESCRIPTION	PART NO.	ORDER DETAILS
Lube 8" Tube	CLT008P-30	30-tube box

Eaton Factory Direct Manual Transmission Clutch Selectors

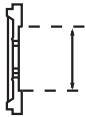
Heavy-Duty Clutch

1 Self-adjusting clutches are recommended for trucks with hydraulic linkage to reduce the risk of drivetrain damage.

						Best		Better		Good	
						Original Equipment Specifications (Pre-damper suffix in parentheses)		Aftermarket Specifications		Remanufactured	
	Spline Dia. – No. of Splines	Flywheel Bore Opening	No. of Springs / Damper Type	Clutch Torque lb-ft (must equal or exceed engine torque)	Facing	Advantage Self-Adjust	Easy Pedal Advantage Manual Adjust	EverTough Self-Adjust	EverTough Manual Adjust	Advantage Self-Adjust	Easy Pedal Advantage Manual Adjust
15.5 inch	2" – 10	7"	8	1400	4				108391-81AM		
					Organic						
		8.5"	10	1650	4				108391-74AM		
		10"	9 (Mack and Volvo 11L & 13L)	1650	4	309701-51	308925-51	109701-51AM	108935-51AM		
				1760	4				108935-61AM		108935-61MO*
				1850	4	309701-68	308925-68				
				1650	6	309701-91	308925-91		108935-91AM		108935-91MO*
				1760	6			109701-92AM			
				1850	6	309701-98	308925-98				
			7	1700	4	309701-82	308925-82	109701-82AM	108925-82AM	309701-82MO	308925-82MO
			7 / VCT Plus	1750	4	309701-24 (-34)	308925-24 (-34)				
				1860	4	309701-23	308925-23				
				1860	6	309701-20 (-30)	308925-20 (-30)				
			7	1860	6			109701-20AM	108925-20AM	309701-20MO	308925-20MO
				2050	6			109701-25AM	108925-25AM	309701-25MO	308925-25MO
			7 / VCT Plus	2050	6	309701-25 (-35)	308925-25 (-35)				
	2" – 14	10"	7 / VCT Plus	2250	6	309708-32 (-42)	308937-32 (-42)				
14 inch	Spline Dia. – No. of Splines	Flywheel Bore Opening	No. of Springs – Damper Type	Clutch Torque lb-ft (must equal or exceed engine torque)	Facing		Easy Pedal Manual Adjust		EverTough Manual Adjust		Easy Pedal Advantage Manual Adjust
	1.75" – 10	7"	8	1400	4	N/A	108063-59	N/A		N/A	N/A
				950	6		108334-6				
	2" – 10	7"	8	1000	3		108034-61B				
				1150	Organic		108034-82B				
				1400	4		108050-59B		108050-59AM		

2 Choose size of your cast two-plate heavy-duty clutch.

3 Determine flywheel bore opening and select number of springs.



4 Choose clutch torque. Rating in chart must be equal to or exceed engine torque rating.

5 Narrow clutch choice based on options. All part numbers in row meet your specs.

6 Choose from new or remanufactured.

* Easy Pedal design

Advantage Series 7-spring VCT Plus
Eaton's premium damper, high torque capability with best-in-class vibration control

Advantage Series Pre-Dampers
effective at quieting neutral gear idle rattle (Pre-damper suffix in parentheses in the table above)

Estimated shipping weights: 15.5" = 150 lbs,
14" = 110 lbs

Please refer to the Roadranger Warranty Guide TCWY0900 for the latest warranty time and miles offering.

Advantage Series

- Strap drive intermediate plate
- Spring separator system
- Original equipment specification
- 3 year/unlimited mileage warranty
- 50,000 mile lube interval

EverTough

- Aftermarket specification
- 2 year/unlimited mileage warranty
- 25,000 mile lube interval

Remanufactured Advantage Series

- Industry-leading strap drive technology
- Made in the USA using genuine Eaton parts
- 100% tested to like new quality
- 1 year/unlimited mile warranty
- 20,000 mile lube interval

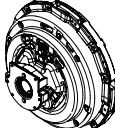
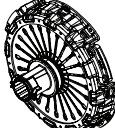
Clutch Torque lb-ft (must equal or exceed engine torque)	Eaton Heavy-Duty ECA Clutch for Automated Transmission Kit Part No.
1850	122002-35A (w/ Low Capacity Inertia Brake)
	122002-35MO (Remanufactured UltraShift PLUS Clutch w/o Low Capacity Inertia Brake)
2250	122003-42A (w/ Low Capacity Inertia Brake)
Eaton Heavy-Duty DM Clutch for Automated Transmission Kit Part No.	
1750	121000-1

DM and ECA clutches are backed by a 12 month/unlimited mile warranty.

Eaton Factory Direct Manual Transmission Clutch Selectors

Medium-Duty Clutch

1 Choose linkage stroke and clutch type.

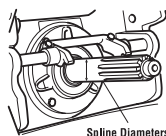
						New		Remanufactured	
Standard Stroke .500" to .560" Bearing Travel	Spline Dia. – No. of Splines	No. of Discs	Damper Type	Clutch Torque lb-ft (must equal or exceed engine torque)	Facing	Solo*	Manual Adjustment	Solo	Manual Adjustment
	1.75" – 10	1	8 / Free Travel	620	3SB	109400-5	107683-5		107683-5MO
	1.75" – 10	2**	7 + 1	860	3 Trap	109500-10	107237-10	109500-10MO	107237-10MO
			7 + 1	860	3SB	109500-22*	107237-22*	109500-22MO*	
	2.0" – 10	2**	7 + 1	860	3SB		107342-12		
Diaphragm Spring	Spline Dia. – No. of Splines	No. of Discs	Damper Type	Clutch Torque lb-ft (must equal or exceed engine torque)	Facing	Adjustment Free			
	1.75" – 10	1	8	660	3SB	104100-2	N/A		N/A

Please refer to the Roadranger Warranty Guide TCWY0900 for the latest warranty time and miles offering.

*** Severe Service:**
A combination of higher plate load, super buttons, or an additional number of facings. United States and Canada only.

****Two Plate Clutches:** Fits in place of single plate (pull type), however, this increases inertia to the transmission and may affect shiftability and longevity.

2 Choose spline diameter size and number of discs.



Spline Diameters:
1.75" or 2.00"

3 Choose damper type.

7+1 Damper – designed to quiet idle rattle

4 Choose clutch torque. Rating in chart must be equal to or exceed engine torque rating.



3 Super Button
(3 SB)

5 Choose clutch torque. Rating in chart must be equal to or exceed engine torque rating.



4 Super Button
(4 SB)

6 Choose from new or remanufactured.

New

- Longer service life
- Less downtime

Remanufactured

- Economy
- Longer service life compared to rebuilt



3 Trap



6 Super Butt
(6SB)

Eaton Factory Direct Automated Manual Transmission Clutch and CPCA Selectors

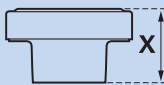
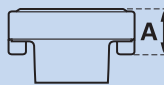
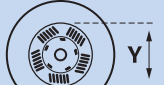

Eaton Advantage Automated Series clutches feature the proven technology of a high strength stamped steel bracket, robust diaphragm design, and premium organic driven disc facings. Maintenance-free and adjustment-free: they eliminate periodic adjustments and extend clutch service life.

The Advantage Automated Series portfolio includes aftermarket clutches for the most popular transmissions currently in operation in North America, including:

Eaton Cummins Endurant™
Detroit™ DT12*

Volvo® I-Shift
Mack® mDRIVE™

Advantage Automated Clutches for Endurant and other transmissions

1	2	3	4				
Choose transmission	Select OEM	Choose engine	Find Part No.	Verify fit with dimensions if needed.			
Transmission	OEM	Engine	Eaton Kit Part No.	 Release Bearing Style prior to 2023 (X)	 Release Bearing Style 2023 and later (A)	 Damper Size (Y)	 Flywheel Bore Opening (Z)
Endurant HD	DTNA	Detroit DD13 (thru 2020)	K-4496CL *	87.7mm / 3.4in (SAE)	46.7mm / 1.83in (SAE)	254mm	290mm
		Detroit DD13 (2021 +)				285mm	
		Detroit DD15				K-4494CL*	254mm
		Cummins X15					
		Cummins X12					
	NAVISTAR	Cummins ISX12N (CNG)	K-4512CL*				
		Cummins X15	K-4488CL*	94.6mm / 3.7in (ISO)	53.5mm / 2.10in (ISO)	254mm	260mm
	PACCAR	PACCAR MX (thru 2020)	K-4488CL*	94.6mm / 3.7in (ISO)	53.5mm / 2.10in (ISO)	254mm	260mm
		Cummins X15					
		Cummins ISX12N (CNG)	K-4512CL*	87.7mm / 3.4in (SAE)	46.7mm / 1.83in (SAE)		
		PACCAR MX (2021 +)	K-4514CL*	94.6mm / 3.7in (ISO)	53.5mm / 2.10in (ISO)	285mm	290mm
		VOLVO	Cummins X15	K-4494CL*	87.7mm / 3.4in (SAE)	46.7mm / 1.83in (SAE)	254mm
Cummins ISX12N (CNG)	K-4512CL*						
Endurant XD	DTNA	Cummins X15	K-4544CL**		46.7mm / 1.83 in (SAE)	254mm	260mm
	NAVISTAR	Cummins X15	K-4545CL**		53.5mm / 2.10in (ISO)	254mm	260mm
		International A26					
	PACCAR	Cummins X15	K-4545CL**		53.5mm / 2.10in (ISO)	254mm	260mm
		PACCAR MX11 / MX13	K-4561CL**		285mm	290mm	
	VOLVO	Cummins X15	K-4544CL**		46.7mm / 1.83 in (SAE)	254mm	260mm
Endurant XD Pro	DTNA	Cummins X15	K-4559CL**		46.7mm / 1.83 in (SAE)	254mm	260mm
		Cummins X15 (2050 lb-ft.)	K-4557CL**				
	NAVISTAR	Cummins X15	K-4560CL**	53.5mm / 2.10in (ISO)	254mm	260mm	
		International A26					
		Cummins X15 (2050 lb-ft.)					K-4558CL**
	PACCAR	Cummins X15	K-4560CL**	53.5mm / 2.10in (ISO)	254mm	260mm	
		Cummins X15 (2050 lb-ft.)	K-4558CL**				
		PACCAR MX11 / MX13	K-4638CL**				
	VOLVO	Cummins X15 (2050 lb-ft.)	K-4557CL**	46.7mm / 1.83 in (SAE)	254mm	260mm	

* Endurant HD kits include the release bearing and an input shaft journal kit.
** Endurant XD kits include the release bearing.



Transmission	OEM	Engine	OEM Clutch Part No.	Eaton Clutch Part No.	CPCA Part No.
DT12	DTNA	All	A02-82500-001 A02-14027-008	K-4489CL	K-4515CL
I-Shift / mDRIVE	Volvo / Mack	11L and 13L Engine	85003114 85000907 85003972 85003973 85002560	104461-1	K-4516CL

Endurant is a registered trademark of Eaton Cummins Automated Transmission Technologies. DT12 is a registered trademark of Detroit Diesel Corporation. Volvo is a registered trademark of Volvo Trademark Holding AB Corporation. Mack mDRIVE is a registered trademark of Volvo Truck Corporation.

Core Credit Allowance

Reman Clutches

Eaton will issue core credit against Reman purchases to dealers through the O.E.M. Core credit will be accepted for the following products only:

14" Cast Easy-Pedal™	\$60
Stamped Angle Spring®	\$60
15.5" Cast Easy-Pedal™	\$100

Cores must be returned to Eaton within 360 days of the original Reman clutch purchase. Any cores received ahead of Reman purchases will be held 30 days for credit against future purchases. **After 30 days, cores will become the property of Eaton and no credit will be issued.**

Core Return Procedures

Return Freight

SHIP WT.	FREIGHT TYPE
Less than 1200 lbs	Ship prepaid freight
More than 1200 lbs	May ship freight collect with Eaton-approved carrier (continental U.S. only). See core form or call a Reman facility for list of approved carriers.

Shipping Forms

Mark shipping documents as follows:

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

Use core return form supplied by Eaton. Include a packing list that shows:

- Cores being returned
- Customer address
- Customer phone number

Core Return Location:

Alotech Inc.
751 S. Church Street
Goldston, NC 27252
919-774-1297

Surplus Product Return Procedure

1. Call 1-800-826-4357 (HELP) Option 2, 2
 - Freight prepaid by dealer
 - 20% restocking fee
2. Customer Support issues a Return Material Authorization (RMA)
3. Return product within 30 days or RMA is cancelled.

Open Market Core Buyback

Beginning January 1, 2024, Eaton will no longer have core charges on reman clutches. Core returns will still be accepted to offset any applicable core banks.

Beginning February 1, 2024, Eaton will begin accepting angle spring Advantage clutch cores (308* series and 309* series) on the Clutch Core Buyback program. Eaton will pay the current open market amount which can be found at eaton.com/clutchcore. All cores must meet the following criteria. Clutches not meeting all of the criteria will be rejected, scrapped, and not paid or returned:

1. Only Genuine Eaton cores are eligible for the buyback program. 308* and 309* part numbers must be etched in the clutch cover.
2. Clutch cores must be fully assembled.
3. No cracks, welds, or bulges can be present in the clutch casting.
4. **Do not ship cores until you have the authorization form approved by Eaton via email. Unauthorized returns will not be paid.**

Eaton reserves the right to limit, delay, or refuse a return request. Return requests will be limited to 30 clutches total (308 and 309 combined) until further notice.

To initiate a buyback request, complete and return the Eaton Clutch Core Buy Back Request Form (1/1/2024 version) and send to clutchcorereturns@eaton.com. All relevant core buyback forms can be found online: eaton.com/clutchcore

Clutch Factory Direct Program

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SUPPORT

**For spec'ing or service assistance,
call 1-800-826-HELP (4357) or visit
www.eatonpartsonline.com.
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.eatonpartsonline.com

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