

SELECTING THE PROPER CLUTCH

There are three parts to designing a clutch for a specific application. If the correct clutch is chosen, the truck will have good engagement, protection for the drive-line, long clutch life, and minimal loss of torque.

Determine Size of Clutch:

If 15.5", then measure Center Flywheel Opening. ("A" dimension on illustration to the right.) Approximate flywheel sizes: 7", 8.5" or 10".

If flywheel bore is 7", you can only use an 8 spring damper.
If flywheel bore is 8.5", you can only use a 10 spring damper.

If flywheel bore is 10", you can only use a 6 spring (VCT) or a 9 Spring (Mack only)

If you have a 10" flywheel bore, do not use organic facings.

The facing I.D will extend into flywheel bore opening and you will not have full facing contact.



Torque Capacity:

A clutch must be chosen that has a torque capacity that is greater than or equal to the peak torque of the engine. This is very important today when an engine can be easily adjusted electronically to produce greater torque. There are two factors in determining torque capacity. These two factors are friction force and damper capacity. Friction force is a product of the cover assemblies clamp load (also called plate load).

Damper capacity is what allows the clutch to provide torsional protection for the entire drive-line.

Application:

Service replacement clutches should have the same plate loads, damper and friction material. Substituting from the original could shorten the life of the clutch components.

STAMPED ANGLE SPRING



The Eaton Fuller Stamped Angle-Spring clutch is specifically designed for class 6 and 7 medium-duty trucks with diesel engines. It easily handles engines developing up to 900lb ft.

Available in 1 3/4" or 2" - 10 spline, with ceramic facings in either single or twin plate.

EASY PEDAL



Twin plate 14" or 15-1/2" clutches.
1 3/4" or 2" shafts for class 8 trucks with engines up to 600 horsepower.

Lower pedal effort/ bearing load.
Smooth engagement.
Maximum ventilation for cooler operation.
Ceramic or organic facings.
Simplified adjustment.
Direct interchangeability.

SOLO



A fully adjustment-free clutch, which checks for proper alignment and makes any adjustments necessary with every push of the pedal. It is available with ceramic facings in either 14" single or two plate design or 15-1/2" two plate clutch.

CLUTCH

APPLICATION CHART

15-1/2" Cast Two Plate Heavy Duty										
Spline Diam No of Splines	Flywheel Bore Opening	No of Springs	Clutch Torque lbft	Disc Type	Disc Facing	Cover Load lbft	Easy Pedal Plus c/w clutch brake	Easy Pedal Plus c/w clutch brake	Solo XL Roller Yoke	
2" - 10	7"	8	1250	DOF-CO-FT	Organic	3600	108391-77A	108935-77A		
			1400	DCF-CO-FT	Ceramic 4	3600	108391-81A	108935-81A		
			1400	DOF-CO-FT	Organic	4000	108391-82A	108935-82A		
	8-1/2"	10	1450	DOF-CO-FT	Organic	4000	108391-78A	108935-78A		
			1650	DCF-CO-FT	Ceramic 4	3600	108391-74A			
	10"		10	1860	DCF-CO-FT	Ceramic 6	4000	108391-93A	108935-93A	
				1700	DCF-CO-FT	Ceramic 6	3600	108391-91A	108935-91A	
				7	1860	DCF-VCTplus	Ceramic 6	4000	108925-20A	
2050	DCF-VCTplus	Ceramic 6	4000		108925-25A		109705-25Y			
2" - 14	10"	7	2250	DCF-VCTplus	Ceramic 6	4000	108009-32A		109706-32Y	

14" Cast Two Plate Medium Duty									
Spline Diam No of Splines	Flywheel Bore Opening	No of Springs	Clutch Torque lbft	Disc Type	Disc Facing	Cover Load lbft	Easy Pedal Plus c/w clutch brake	Solo	Solo XL Roller Yoke
1-3/4" - 10	7"	8	1000	DOF-CO-FT	Organic	3200	108035-39A		
			1150	DOF-CO-FT	Organic	3600	108035-82A		
2" - 10			1000	DOF-CO-FT	Organic	3200	108034-57A		
			1150	DOF-CO-FT	Organic	3600	108034-82A		
			1400	DCF-CO-FT	Ceramic 4	3200	108050-59A		

14" Flat Single Plate Medium Duty									
Spline Diam No of Splines	Damper Type	No of Springs	Clutch Torque lbft	Disc Type	Disc Facing	Cover Load lbft	Manual Adjustment	Solo	Solo XL Roller Yoke
1-3/4" - 10	Free Travel	8	620	DCF	Ceramic 3	3000	107683-5	109400-5	109410-5Y
			680	DCF	Ceramic 6	3000	107697-6A	109401-3	
			800	DOF	Organic	2800	107701-16A		
	Low Rate		900	DCF	Ceramic 6	2000	107701-6A		