



PAI CLUTCH KITS

Assemblies & Components



World Tested. Performance Proven.





PAI INDUSTRIES, INC.

==== WORLD TESTED PERFORMANCE PROVEN ====

Your Official Supplier for High Performance Truck Parts.

We are proud to be an American Manufacturer for over 40 years. Our goal is to ensure customer satisfaction by maintaining the highest levels of quality for the products and services we provide. For that reason, we perform rigorous testing to ensure greater efficiency, longer life and lower maintenance needs.

www.paiindustries.com





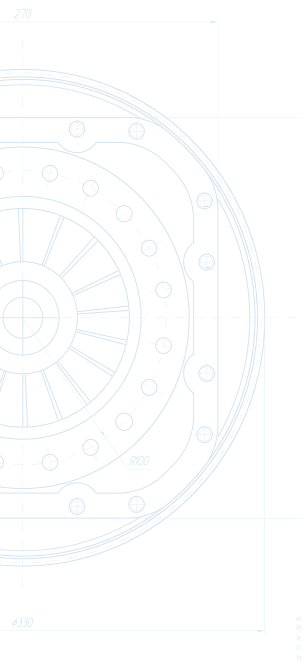
ISO 9001
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PAI HEAVY DUTY CLUTCH KITS

CLUTCH COMPONENTS REFERENCE CHARTS

Auto-Adjust | Speed Shift | Standard Angled | Medium Duty | Discs

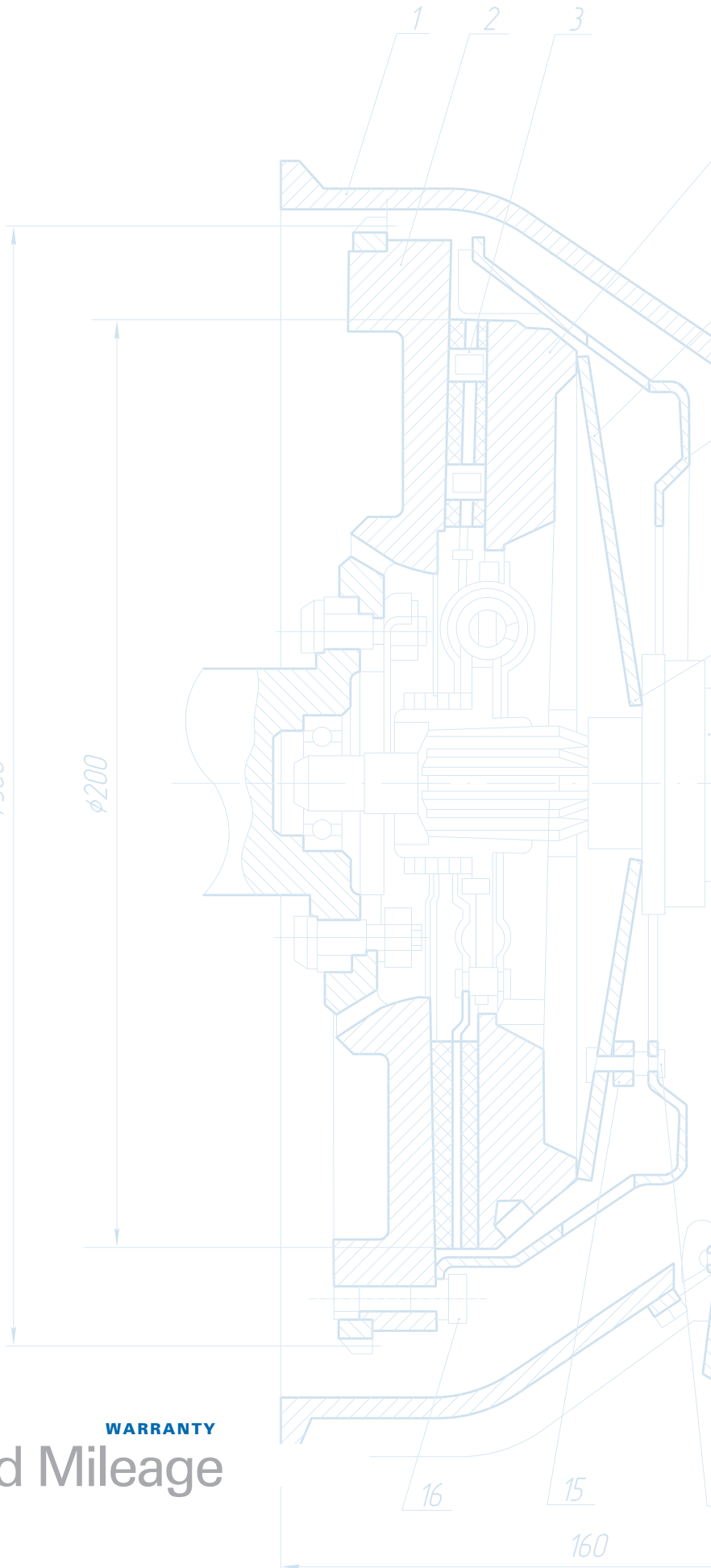
PAI INDUSTRIES, INC., 950 Northbrook Parkway, Suwanee, GA 30024
P: 770.822.1000 • F: 770.822.1421 • www.paiindustries.com



PAI Industries, Inc. is proud to be your official supplier for heavy and medium duty clutches and clutch components.

From 15.5" and 14" sizes for heavy duty applications to 14" Single and Double Plates, 310mm and 350mm sizes for Medium Light Duty applications, we are here to keep you running smoothly and efficiently.

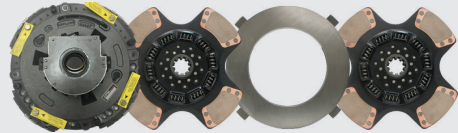
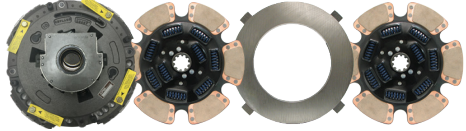

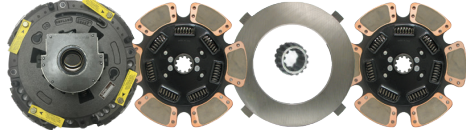
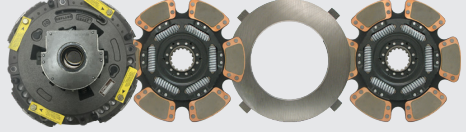

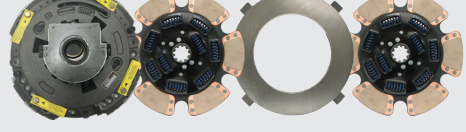
With our vast array of clutch system components including: clutch installation kits, flywheels, flywheel housings, pressure plates, intermediate plates, clutch discs, pilot bearings, levers, lubrication tubes, clutch adjusters and other essential components used for your clutch assembly, PAI has you covered.



TWO⁽²⁾ YEAR Unlimited Mileage **WARRANTY**

www.paiindustries.com

AUTO-ADJUST CLUTCH Self Adjusting

PAI Assembly	OEM Reference	Clamp (lbs)	No. of Disc Springs	Facing	Torque Rating (lb/ft)	Flywheel (Volante) Minimum Opening	Low Pedal Effort Heavy Duty Clutch
							15 1/2" X 2" - 10 SPLINES
■ 960330	DAN 209701-74	3600	10	4 Pads	1650	8.5"	
■ 960331	DAN 209701-93	3600	10	6 Pads	1850	8.5"	
● 960332	DAN 209701-61	3600	9	4 Pads	1760	10"	
■ 960333	DAN 209701-85	4000	7	6 Pads	2050	10"	
■ 960334	DAN 209701-32	4200	6	6 Pads	2250	10"	
■ 960335	DAN 209701-82	3600	7	4 Pads	1700	10"	
● 960336	DAN 209701-92	4000	9	6 Pads	1850	10"	

PAI's Auto Adjust Clutch Self Adjusting



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Maintains constant and optimal clutch adjustment to enhance clutch life and achieve peak performance.

Dual Cam Springs to ensure balance clutch adjustment.

Inbuilt over adjustment protection.

Updated release Bearing Assembly with wide thrust pads, triple grease zerk and bearing slinger to keep out contamination

Reduces clutch maintenance and truck downtime.

Wear indicator to quickly determine clutch life

Use in Hydraulic and Non-hydraulic linkages across multiple truck applications.

Made in the USA with all new components.



■ Triple Zerk | ● Mack application only | * Not for flywheel with 10 inch opening | ◆ Super Duty | ✪ Sealed Release Bearing

PAI Assembly		OEM Reference	Clamp (lbs)	No. of Disc Springs	Facing	Torque Rating (lb/ft)	Flywheel (Volante) Minimum Opening	Low Pedal Effort Heavy Duty Clutch			
								15 1/2" x 2" - 10 SPLINES			
■ *	EM97190	DAN 108391-82 DAN 108391-77 DAN 108935-77	4000	8	Organic	1400	7"				
■ *	CCA-9718 EM97180	DAN 108391-78 DAN 108935-78	4000	10	Organic	1450	8.5"				
■	CCA-9736 EM9W7360 *CCA-9736A	DAN 108391-81	3600	8	4 Pad	1450	7"				
■	CCA-9728 EM97280	DAN 208925 - 82 MAK 11HB59P117	3600	7	4 Pad	1700	10"				
■ ●	CCA-9738 EM97380	DAN 208935-61 DAN 208935-51 MAK 11HB59P114	3600	9	4 Pad	1760	10"				
■	CCA-9737 EM97370	DAN 108391-74	3600	10	4 Pad	1650	8.5"				
■	CCA-9726 EM97260	DAN 208925-85 DAN 108935-85	4000	7	6 Pad	2050	10"				
■ ●	CCA-9725 EM97250	DAN 208925-91 DAN 208925-92 DAN 208925-94 MAK 11HB59P120	4000	9	6 Pad	1850	10"				
■	CCA-9717 EM97170	DAN 108391-93 DAN 108935-93	4000	10	6 Pad	1850	8.5"				
■	CCA-9716 EM97160	DAN 208925-25 DAN 208925-20 DAN 208925-20 DAN 108935-15 MAK 11HB59-P121	4200	6	6 Pad	2250	10"				

All clutch assemblies are shipped without clutch brakes and drive pins unless specified otherwise. Various designs of clutch brakes are available to suit your requirements. *Clutch brakes and drive pins are sold separately.*

PAI Assembly	OEM Reference	Clamp (lbs)	No. of Disc Springs	Facing	Torque Rating (lb/ft)	Flywheel (Volante) Minimum Opening	Low Pedal Effort Heavy Duty Clutch
							14" x 1 3/4" - 10 SPLINES
◆ 960200	DAN 108063-59	3600	8	Ceramic	1400	7"	
							14" x 2" - 10 SPLINES
CCA-9739	DAN 108034-30B	3600	--	Organic	1000	7"	
CCA-9727 EM97270	DAN 108034-82 DAN 108034-57	3600	8	Organic	1150	7"	
CCA-9748	DAN 108034-61	3600	8	3 Pad	1000	7"	
◆ CCA-9733	DAN 108050-59 DAN 108950-59 MAK 11HB59-P119 MAK 2104-10805059	3600	8	4 Pad	1400	7"	

PAI's Speed Shift Clutch Low Pedal Effort



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Inbuilt capacity to handle torque spikes of up to 10% over and above specified torque rating.

Manufactured using high-grade steel that provides extra strength and better heat dissipation.

Upgraded throw-out bearing design.

Superior bearings with high temperature seals & grease.

3 Grease Zerks to allow for multiple truck applications.

Spring loaded quick adjuster and Acme thread on adjusting ring allows quick & easy adjustment.

Bearing includes slinger to avoid contamination of grease and increase lubrication intervals.

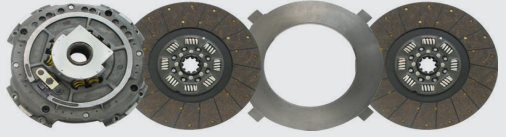
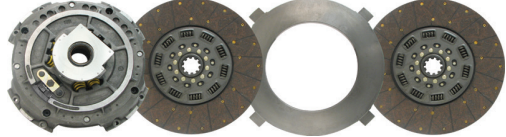

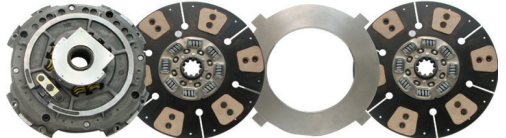



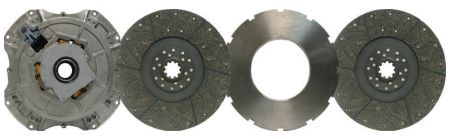
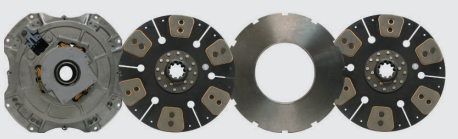
Made in the USA with all new components.



Heavy duty, angled coil-spring clutch with 9 springs in the casting of the clutch pressure plate. These 9 springs comprise of 6 pressure springs and 3 assist springs that makes our SpeedShift Clutches easy to operate.

■ Triple Zerk | ● Mack application only | * Not for flywheel with 10 inch opening | ◆ Super Duty | ⚙ Sealed Release Bearing

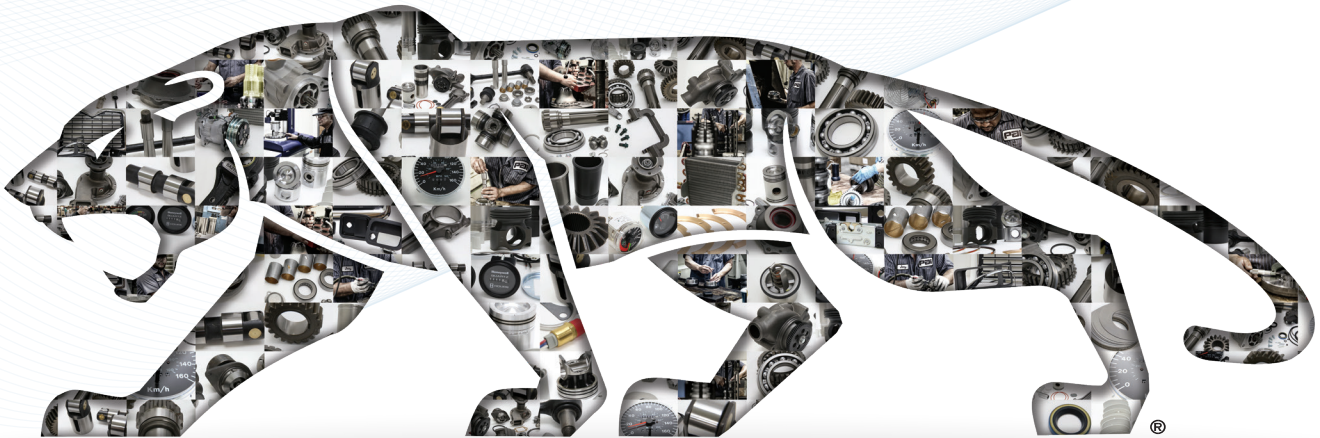
STANDARD ANGLED SPRING HEAVY DUTY CLUTCH

PAI Assembly		OEM Reference	Clamp (lbs)	No. of Disc Springs	Facing	Torque Rating (lb/ft)	Flywheel (Volante) Minimum Opening	Standard Angled Heavy Duty Clutch
								15 1/2" x 2" - 10 SPLINES
*	CCA-9793	DAN 107091-82	4000	8	Organic	1250	7"	
*	CCA-9794	DAN 107091-78	4000	10	Organic	1400	8.5"	
	CCA-9796	DAN 107091-81 DAN 107091-80	3600	8	4 Pad	1400	7"	
	CCA-9734 CCA-9734A	DAN 107091-55 MAK 11HB59P66	3600	8	6V Pad	1400	7"	
■	CCA-9707	DAN 107925-82 DAN 107935-82	3600	7	4 Pad	1650	10"	
■●	CCA-9713	DAN 107935-51	3600	9	4 Pad	1650	10"	
	CCA-9701	DAN 107091-74	3600	10	4 Pad	1650	8.5"	
								14" x 2" - 10 SPLINES
	CCA-9740	DAN 107034-30	3600	Rigid	Organic	1000	7"	
	CCA-9742	DAN 107034-19	3600	Rigid	6V Pad	900	7"	

All clutch assemblies are shipped without clutch brakes and drive pins unless specified otherwise. Various designs of clutch brakes are available to suit your requirements. *Clutch brakes and drive pins are sold separately.*

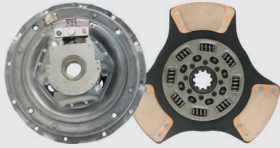





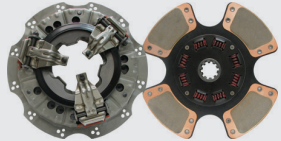
STANDARD ANGLED SPRING HEAVY DUTY CLUTCH

PAI Assembly	OEM Reference	Clamp (lbs)	No. of Disc Springs	Facing	Torque Rating (lb/ft)	Flywheel (Volante) Minimum Opening	Standard Angled Heavy Duty Clutch
							14" x 2" - 10 SPLINES
CCA-9743	MAK 2104-1070502	3600	8	6V Pad	900	7"	
CCA-9747 EM97470	DAN 107034-82 DAN 107034-57 DAN 107034-32	3600	8	Organic	1000	7"	
CCA-9797	DAN 107034-61	3600	8	3 Pad	1000	7"	
◆ CCA-9803	DAN 107050-59 DAN 107950-59 DAN 107034-53	3600	8	4 Pad	1400	7"	



THOUSANDS OF ADDITIONAL HEAVY DUTY PARTS AVAILABLE UPON REQUEST
 Learn more about PAI Truck Parts visit, www.paiindustries.com or call 770.822.1000

■ Triple Zerk | ● Mack application only | * Not for flywheel with 10 inch opening | ◆ Super Duty | ✪ Sealed Release Bearing

PAI Assembly	OEM Reference	Clamp (lbs)	No. of Disc Springs	Facing	Torque Rating (lb/ft)	Flywheel (Volante) Minimum Opening	Medium Duty Clutch
							14" X 1 3/4" - 10 SPLINE
CCA-9723	DAN 107683-5	3200	8	3 Pads	650	7"	
							14" X 1 3/4" - 10 SPLINE
CCA-9724	DAN 107237-10	2000	8	3V Pads	900	7"	
CCA-9804	DAN 107237-22	2400	8	3 Pads	950	7"	
CCA-9805	DAN 107237-24	2500	8	4 Pads	1050	7"	
							14" X 2" - 10 SPLINE
CCA-9806	DAN 107342-12 DAN 107686-2 DAN 107342-22	2500	8	3 Pads	950	7"	
CCA-9807	DAN 107342-24	2400	8	4 Pads	1050	7"	
							310MM X 1 1/2" - 10 SPLINE
CCA-9808	DAN 107606-1	2400	8	4 Pads	400	--	

All clutch assemblies are shipped without clutch brakes and drive pins unless specified otherwise. Various designs of clutch brakes are available to suit your requirements. *Clutch brakes and drive pins are sold separately.*

MEDIUM DUTY CLUTCH Stamped Steel Covers

PAI Assembly	OEM Reference	Clamp (lbs)	No. of Disc Springs	Facing	Torque Rating (lb/ft)	Flywheel (Volante) Minimum Opening	Medium Duty Clutch
							350MM X 1 1/2" - 10 SPLINE
CCA-9809	DAN 107621-1	2400	8	4 Pads	500	--	
★ CCA-9812	DAN 107350-4	2400	8	4 Pads	500	--	
FREIGHTLINER M2 • MBE 906 ENGINE							365MM X 1 3/4" - DIAPHRAGM STYLE
★ 960337	DAN 104200-1	2500	8	3 Pads	860	7"	
FREIGHTLINER M2 • MBE 904 ENGINE							365MM X 1 3/4" - DIAPHRAGM STYLE
★ 960338	DAN 104100-1	3200	8	3 Pads	520	7"	
★ 960339	DAN 104100-2	3200	8	3 Pads	660	7"	

PAI's Medium Duty Clutch Stamped Steel Covers



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Inbuilt capacity to handle torque spikes of up to 10% over and above specified torque rating.

Manufactured using high-grade steel that provides extra strength and better heat dissipation.

Upgraded bearing design.

Superior bearings with high temperature seals & grease.

Made in the USA with all new components.



■ Triple Zerk | ● Mack application only | ★ Not for flywheel with 10 inch opening | ◆ Super Duty | ☆ Sealed Release Bearing

PAI CLUTCH DISCS

PAI / Excel Reference	OEM Reference	Disc Diameter	Spline	Hub Type	Facing Type	Installation Side	Clutch Disc Photos
CCA-9645	MAK 5063-1406551 LIP 140-6-551	14"	1 1/2" x 10	Rigid	Organic	Pressure Plate	
CCD-9761 EM97610	MAK 101HB463AP2 NAV 593110C92 DAN 128302 DAN 127047-1X	14"	1 3/4" x 10	Rigid	Organic	Flywheel	
CCD-9771 EM97710	MAK 101HB462AP2 NAV 697939R91 DAN 128303 DAN 127048-X	14"	1 3/4" x 10	Rigid	Organic	Pressure Plate	
CCD-9767 EM97670	MAK 2104-128306 DAN 128306 DAN 128304	14"	1 3/4" x 10	8 Springs	Organic	Flywheel	
CCD-9777 EM97770	MAK 2104-128307 DAN 128307 DAN 128305	14"	1 3/4" x 10	8 Springs	Organic	Pressure Plate	
960025	DAN 128281	14"	1 3/4" x 10	8 Springs	4 Pad Super Duty	Flywheel	
960026	DAN 128282	14"	1 3/4" x 10	8 Springs	4 Pad Super Duty	Pressure Plate	
CCD-9760 EM97600	MAK 2104-128310 NAV 433655C91 DAN 127242-1X DAN 128310	14"	2" x 10	Rigid	Organic	Flywheel	
CCD-9770 EM97700	MAK 2104-128311 NAV 433656C91 DAN 127243-X DAN 128311	14"	2" x 10	Rigid	Organic	Pressure Plate	
CCD-9762	DAN 127461-1X DAN 128283 DAN 411541C1	14"	2" x 10	Rigid	6V Pads	Flywheel	
CCD-9772	DAN 127462-1X DAN 128284 DAN 411542C1	14"	2" x 10	Rigid	6V Pads	Pressure Plate	




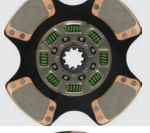
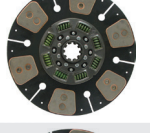
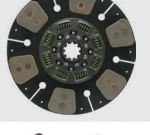

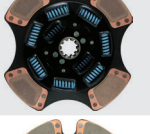
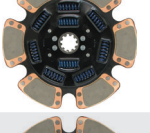
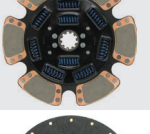

All clutch assemblies are shipped without clutch brakes and drive pins unless specified otherwise. Various designs of clutch brakes are available to suit your requirements. *Clutch brakes and drive pins are sold separately.*

PAI CLUTCH DISCS

PAI / Excel Reference	OEM Reference	Disc Diameter	Spline	Hub Type	Facing Type	Installation Side	Clutch Disc Photos
CCD-9766 EM97660	MAK 101HB4106 DAN 128314 NAV 574066C91	14"	2" x 10	8 Springs	Organic	Flywheel	
CCD-9776 EM97760	MAK 1101HB4107 DAN 128315 NAV 574067C91	14"	2" x 10	8 Springs	Organic	Pressure Plate	
CCD-9763 EM97630	MAK 101HB487P1 DAN 128227 NAV 574070C91	14"	2" x 10	8 Springs	6V Pads	Flywheel	
CCD-9773 EM97730	MAK 101HB488P1 DAN 128228 MAK 101HB3228	14"	2" x 10	8 Springs	6V Pads	Pressure Plate	
CCD-9667	DAN 128231	14"	2" x 10	8 Springs	3 Pads	Flywheel	
CCD-9668	DAN 128232	14"	2" x 10	8 Springs	3 Pads	Pressure Plate	
CCD-9765 EM97650	MAK 2104-128229 DAN 128229 NAV 574070C92	14"	2" x 10	8 Springs	4 Pads Super Duty	Flywheel	
CCD-9775 EM97750	MAK 2104-128230 DAN 128230 NAV 1675233C91	14"	2" x 10	8 Springs	4 Pads Super Duty	Pressure Plate	
CDK-9716-100* EM97160-100*	DAN 128604 DAN 128607	15 1/2"	2" x 10	6 Springs	6 Pads	Flywheel Pressure Plate	
CCD-9681 EM96810	MAK 2104-128462 DAN 128462	15 1/2"	2" x 10	7 Springs	4 Pads	Flywheel Pressure Plate	
CCD-9679 EM96790	MAK 2104-128541 DAN 128541	15 1/2"	2" x 10	7 Springs	6 Pads	Flywheel Pressure Plate	

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PAI CLUTCH DISCS

PAI / Excel Reference	OEM Reference	Disc Diameter	Spline	Hub Type	Facing Type	Installation Side	Clutch Disc Photos
EM96620	MAK 2104-128324 DAN 128324 DAN 128326	15 1/2"	2" x 10	8 Springs	Organic	Flywheel	
EM96720	MAK 2104-128325 DAN 128325 DAN 128327	15 1/2"	2" x 10	8 Springs	Organic	Pressure Plate	
CCD-9768 EM97680	MAK 2104-128215 DAN 128215 NAV 574074C92	15 1/2"	2" x 10	8 Springs	4 Pads	Flywheel	
CCD-9778 EM97780	MAK 2104-128216 DAN 128216 NAV 1663742C91	15 1/2"	2" x 10	8 Springs	4 Pads	Pressure Plate	
CCD-9764 EM97640	MAK 101HB4136 DAN 128236 DAN 128049	15 1/2"	2" x 10	8 Springs	6V Pads	Flywheel	
CCD-9774 EM97740	MAK 101HB4137 DAN 128237 DAN 128050	15 1/2"	2" x 10	8 Springs	6V Pads	Pressure Plate	
● CCD-9661 EM96610	MAK 2104-128362 DAN 128362	15 1/2"	2" x 10	9 Springs	4 Pads	Flywheel	
● CCD-9671 EM96710	MAK 2104-128363 DAN 128363	15 1/2"	2" x 10	9 Springs	4 Pads	Pressure Plate	
● CCD-9665 EM96650	MAK 2104-128537 DAN 128537	15 1/2"	2" x 10	9 Springs	6 Pads	Flywheel	
● CCD-9675 EM96750	MAK 2104-128538 DAN 128538	15 1/2"	2" x 10	9 Springs	6 Pads	Pressure Plate	
CCD-9643 EM96430	DAN 128445	15 1/2"	2" x 10	10 Springs	Organic	Flywheel	

CDK-9716-100 / EM97160-100 is a Kit which includes 2 clutch discs (CCD-9642 / EM96420^{NSS}) and 1 spline reducer hub insert (CHI-9677 / EM96770^{NSS}) to convert 16 splines on the disc to 10 splines for use with a 2 inch 10 spline input shaft. The hub insert design helps to eliminate wear on the splines of the transmission shaft.

NSS- Not Sold Separately

● Mack application only

PAI CLUTCH DISCS

PAI / Excel Reference	OEM Reference	Disc Diameter	Spline	Hub Type	Facing Type	Installation Side	Clutch Disc Photos
CCD-9644 EM96440	DAN 128446	15 1/2"	2" x 10	10 Springs	Organic	Pressure Plate	
CCD-9663 EM96630	MAK 2104-128257 DAN 128257	15 1/2"	2" x 10	10 Springs	4 Pads	Flywheel	
CCD-9673 EM96730	MAK 2104-128258 DAN 128258	15 1/2"	2" x 10	10 Springs	4 Pads	Pressure Plate	
EM96490	DAN 128539	15 1/2"	2" x 10	10 Springs	6 Pads	Flywheel	
EM96500	DAN 128540	15 1/2"	2" x 10	10 Springs	6 Pads	Pressure Plate	

SIGN-UP TO RECEIVE PAI'S STAY CURRENT NEWSLETTER FOR HUNDREDS OF WEEKLY NEW PART RELEASES.




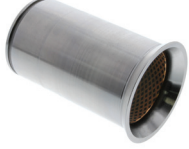





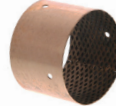




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All clutch assemblies are shipped without clutch brakes and drive pins unless specified otherwise. Various designs of clutch brakes are available to suit your requirements. *Clutch brakes and drive pins are sold separately.*

Product Description	OEM Reference	Clutch Components
Pressure Plate Assembly Speed Shift (Easy-Pedal™ Application) CPP-9756 - 15 1/2" x 2"; 4,000 lbs CPP-9755 - 15 1/2" x 2"; 3,600 lbs CPP-9749 - 14" x 2"; 3,600 lbs CCP-9751 - 14" x 1 3/4"; 3,600 lbs	DAN 157700-6 DAN 157700-4 DAN 145390-4 DAN 145400-4	
Pressure Plate Assembly (Valueline™ Application) CPP-9753 - 15 1/2" x 2"; 3,600 lbs CPP-9750 - 14" x 2"; 3,600 lbs CPP-9754 - 14" x 1 3/4"; 3,600 lbs	DAN 127597-4 DAN 127390-4 DAN 127400-4	
Intermediate Plates - 15 1/2" DIA CFP-9941 - 9.903" ID; .760" Thick CFP-9939 - 8.562" ID; .760" Thick CFP-9939-810 - 8.562" ID; .810" Thick	DAN 125327 DAN 125324 --	
Pressure Plates CPP-9889 - 15 1/2" Strp Dr, C App* CPP-9927 - 15 1/2" Spg Dr, C App** CPP-9932 - 15 1/2" Spg Dr, O App*** CCP-9936 - 14" Spring Driven	DAN 170C-536 DAN 170C-452 DAN 170C-385 DAN 170C-159	
Intermediate Plates - 14" DIA CFP-9940 - .630" Thick CFP-9937 - .810" Thick	DAN 113C-49 DAN 113C-70	
Adjusting Rings DAP 960080 - Acme Thread CAR-9948 - Fine Thread 960030 - Intermediate Plate & Ring	DAN 195C-99 DAN 195C-69 DAN 125197	
Bearing Assembly (Easy-Pedal™ and Valueline™ Applications) CBA-9786 (Greaseable)	DAN 125437 DAN 127879	
Bearing Sleeve Assembly CSL-9780 2" Greaseable CSL- 9785 2" Sealed CSL-9781 1 3/4" Greaseable CSL-9795 1 3/4" Sealed ^{SDA} CSL-9787 1 3/4" Greaseable ^{SDA}	DAN 127859 DAN 127865 DAN 127860 DAN 127864 DAN 127889	
Sleeve Retainer EM99340 - 2" Spline CSR-9938 - 1 3/4" Spline	DAN 242C-34 DAN 242C-32	

* Strp Dr, C App = Strap Driven, Ceramic Application
 **Spg Dr, C App = Spring Driven, Ceramic Application

*** Spg Dr, O App = Spring Driven, Organic Application
^{SDA} For Single Disk Application











Product Description	OEM Reference	Clutch Components
Sleeve Retainer (For Stamped Angle Spring Clutch) CSR-9928 - 2" Spline CSR-9929 - 1 3/4" Spline	DAN 242C-109 DAN 242C-101	
Sleeve (Easy-Pedal™ Application) DAP 960050 - 2" with Bushings	DAN 125388	
Sleeve CSL-9799 - 2"; with Bushing CSL-9798 - 1 3/4"; with Bushing	DAN 127393 DAN 127857	
Sleeve Release (For Mack® PTO Application) CSL-9784 - 2" - for 15-1/2" Clutch CSL-9783 - 2" - for 14" Clutch	2104-110C264 2104-110C164	
Adapter (Mack® PTO) CAD-9788 - Fine Tooth Gear	DAN 285C-29	
Sleeve Seat (Easy-Pedal™ Application) DAP 960051	DAN 200C-155	
Sleeve Washer (Easy-Pedal™ Application) DAP 960052	DAN 200C-156	
Sleeve Bushing CBG-9708 - 1 3/4" Diameter CBG-9709 - 2" Diameter	DAN 257C-29 DAN 257C-30	
Sleeve Retainer (Easy-Pedal™ Application) DAP 960060	DAN 242C-173	
Lever CLE-9705	DAN 173C-73 DAN 173C-141	
Assist Springs (Easy-Pedal™ Application) DAP 960005	DAN 277C-353	
Pressure Springs DAP 960011 - 4,200 lbs. DAP 960010 - 4,000 lbs. DAP 960009 - 3,600 lbs. CSP-9930 - 3,200 lbs. CSP-9920 - 2,800 lbs.	DAN 277C-418 DAN 277C-383 DAN 277C-216 DAN 277C-88 DAN 277C-96	




All clutch assemblies are shipped without clutch brakes and drive pins unless specified otherwise. Various designs of clutch brakes are available to suit your requirements. *Clutch brakes and drive pins are sold separately.*

Product Description	OEM Reference	Clutch Components
Alignment Tool CCT-9871 1 3/4" x 10 spline; Pilot 1.180 Dia. CCT-9872 2" x 10 spline; Pilot 1.180 Dia.	--	
Intermediate Plate Pin (Drive Lugs) CPN-9710 CPN-9711 (Threaded; 2.25" long) CPN-9712 (Threaded; 2.06" long)	DAN 274C-6 DAN 274C-28 MAK 183GC145	
Lubrication Hose MLH-4159 - 15" long MLH-4158 - 13 1/2" long	MAK 36RU171 MAK 36RU170	
Mounting Screws CSC-0820 for 14" Clutch; 3/8-16" x 1 1/4" CSC-0821 for 15 1/2" Clutch; 7/16-14" x 2 1/2"	MAK 419GC114 MAK 419GC115	
Sleeve Spring (For Easy-Pedal™ Application) DAP 960020	DAN 277C-403	
Return Spring CSP-9703	DAN 230C-22	
Anti-Rattle Spring CSP-9715	DAN 161C-5	
Spring Loaded Adjuster CAD-9714	DAN 125489	
Lock Plate Adjuster CAD-9706	DAN 125300	
Spring Pivot CPT-9702	DAN 178C-6	
Retaining Ring (Half Locks) CRR-9933 - 2" CRR-9926 - 1 3/4"	DAN 236C-18 DAN 236C-8	
Retaining Ring (Retainer Side) CRR-9931	DAN 236C-20	
Retaining Ring (Bearing Side) CRI-2813	DAN 236C-13	

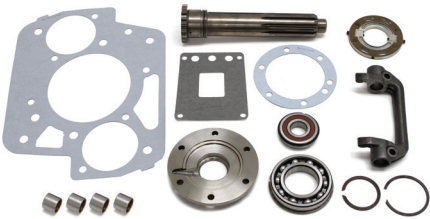
* Strp Dr, C App = Strap Driven, Ceramic Application
 **Spg Dr, C App = Spring Driven, Ceramic Application

*** Spg Dr, O App = Spring Driven, Organic Application
 SDA For Single Disk Application

Product Description	OEM Reference	Clutch Components
Pilot Bearing (Sealed) EBG-8639 Clutch Pilot Sealed	6306-2RSNR BCA 306SSL	
Pilot Bearing (Sealed) EBG-8688	6306-2RS BCA 306DD	
Pilot Bearing EBG-8760	BCA 5304	
Pilot Bearing EBG-8040	6305-Z BCA 305S	
Bearing GBG-6220	MAK 46AX247 BCA 02755	
Lock Washer (for fork type adjusting lock) FWA-0050	MAK 36AX3	
Screw (For Fork Type Adjusting Lock) 3/8 -16" x 7/8" CSC-0134	MAK 4AX17	
Nut (for Drive Lugs) BNU-0261	MAK 21AX814	
Intermediate Plate Separator Roll Pins Intermediate Plate CPN-5133	DAN 123C-80	
Brake Spacer DAP 960190 Thickness - 0.125in.	DAN125C-41	

	A	B	C	D
Clutch Brakes				
	Torque Limiting	Two Piece Aluminum	Two Piece Hinged	Two Piece Hinged Snap Lock
2"	CCB-9690 EM96900	CCB-9694 EM96940	CCB-9696	CCB-9699 (Thickness - 0.390in.)
				CCB-9699-062 (Thickness - 0.440in.)
				CCB-9699-125 (Thickness - 0.500in.)
1 3/4"	CCB-9691 EM96910	--	CCB-9695	CCB-9865

Clutch Installation Kits



EF66030	Application Fuller RT Series w/ 2pc. Aluminum Clutch Brake EM96940
EF66030A	Application Fuller RT Series w/ 2pc. Aluminum Clutch Brake EM96900
EF66030B	Application Fuller RT Series w/ 2pc. Hinged Clutch Brake CCB-9699
FUP 900172	Application Fuller FR Series w/ 2pc. Hinged Clutch Brake CCB-9690

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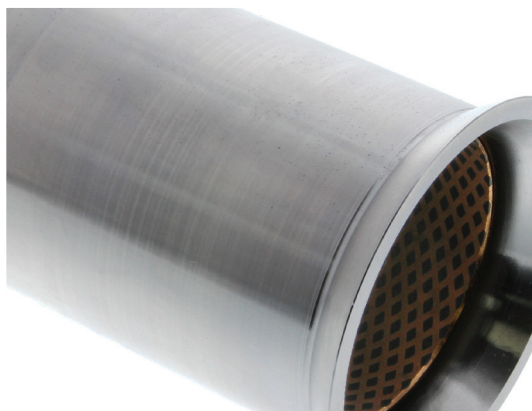
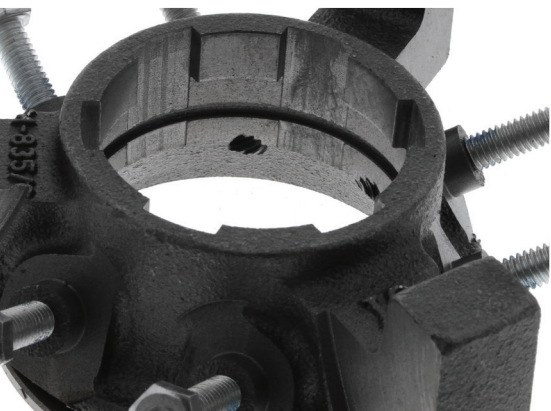
PAI / Excel Reference	OEM Reference	Description	Application	Flywheel Housing Photos			
360510	CAT 2569653	Flywheel Assembly	Caterpillar Engine C15, 3406				
360511	CAT 2903280	Flywheel Assembly	Caterpillar Engine 3176, C10, C11 C12, C13				
360512	CAT 1265875	Flywheel Assembly	Caterpillar Engine 3100, C7				
060045	CUM 3016495	Flywheel Assembly	Cummins Engine 855, N14				
060046	CUM 3021660	Flywheel Assembly	Cummins 855, N14				
060050	CUM3042787	Flywheel Assembly	Cummins Engine L10, M11, ISM				
060051	CUM3071615	Flywheel Assembly	Cummins Engine L10, M11, ISM				
060053	CUM 4933458	Flywheel Assembly	Cummins Engine 6B				
060054	CUM 3906807	Flywheel Assembly	Cummins Engine ISB				
060055	CUM 3680922	Flywheel Assembly	Cummins Engine ISX				
060056	CUM 3922645	Flywheel Assembly	Cummins Engine ISC				
060057	CUM 3912913	Flywheel Assembly	Cummins Engine ISC				

All clutch assemblies are shipped without clutch brakes and drive pins unless specified otherwise. Various designs of clutch brakes are available to suit your requirements. *Clutch brakes and drive pins are sold separately.*

PAI / Excel Reference	OEM Reference	Description	Application	Flywheel Housing Photos			
660045	DDC 23509709	Flywheel Assembly	Detroit Diesel Engine Series 50 & 60				
660047	DDC 23514177	Flywheel Assembly	Detroit Diesel Engine Series 60				
EFW-3843	MAK 530GB3170M	Flywheel Assembly	Mack Engine E7				
EFW-3995	MAK 530GB4380P2	Flywheel Assembly	Mack Engine E6				
EFW-3996	MAK 530GB3142	Flywheel Assembly	Mack Engine E7				
EFW-3997	MAK 530GB3145BM	Flywheel Assembly	Mack Engine E7, E-Tech, ASET				
860050	VOL 21514061	Flywheel Assembly	Mack Engine MP7, D11 Units				
860051	VOL 21514067	Flywheel Assembly	Mack Engine MP8, Volvo D13				
460044	NAV 1818214C91	Flywheel Assembly	Navistar Engine 4444,444E				
460045	NAV 1810855C93	Flywheel Assembly	Navistar Engine DT360 to DT466				
460046	NAV 1821915C91	Flywheel Assembly	Navistar Engine NAV 93 to DT466E 530E				
460047	NAV 1809144C91	Flywheel Assembly	Navistar Engine 444,444E, 93 - 97 PLN 93,99,466E,530E				

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NEED HELP IDENTIFYING PARTS?



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15-1/2" Heavy Duty Clutches						Auto-Adjust Self-Adjusting Clutches		Speed-Shift Low Pedal Effort Clutches		Standard Clutches		
Spline Dia. No. of Splines	Flywheel Bore Opening	No. of Disc Springs	Clamp Load	Clutch Torque (lb/ft) **	Friction Material	PAI Ref.	OEM Ref.	PAI Ref.	OEM Ref.	PAI Ref.	OEM Ref.	Clutch Torque (lb/ft)**
2" x 10	7"	8	4000	1400	Organic	-	-	CCA-9719 EM97190	108391-82 108391-77 108395-77	CCA-9793	107091-82 107091-77 107935-77	1250
			4000	1400	Ceramic(4)	-	-	CCA-9736 EM97360 CCA-9736A*	108391-81	CCA-9796	107091-81 107091-80	1400
			3600	1400	Ceramic (6VTL)	-	-	-	-	CCA-9734 CCA-9734A*	107091-55 11HB59-P66	1400
	8 x 1/2"	10	4000	1450	Organic	-	-	CCA-9718 EM97180	108935-78 108391-78	CCA-9794	107091-78	1400
			3600	1650	Ceramic(4)	960330	209701-74	CCA-9737 EM97370	108391-74	CCA-9701	107091-74	1650
			4000	1850	Ceramic(6)	960331	209701-93	CCA-9717 EM97170	108935-93 108391-93	-	-	-
	10"	9 Mack Only	3600	1760	Ceramic(4)	960332	209701-61 209701-51	CCA-9738 EM97380	108935-61 108935-51 11HB59-P114	CCA-9713	107935-51	1650
			4000	1850	Ceramic(6)	960336	209701-92 209701-91 209701-94	CCA-9725 EM97250	108935-94 108935-91 11HB59-P120	-	-	-
		7	3600	1700	Ceramic(4)	960335	209701-82 209701-80	CCA-9728 EM97280	108935-82 108925-82 11HB59-P117	CCA-9707	107925-82 107935-82	1650
			4000	2050	Ceramic(6)	960333	209701-85 209701-20	CCA-9726 EM97260	108935-85 108925-85	-	-	-
		6	4200	2250	Ceramic(6)	960334 ^^	209701-32 209701-25	CCA-9716 ^^ EM97160 ^^	108925-25 108935-20 108935-15 11HB59-P121	-	-	-

14" Heavy Duty Clutches						Auto-Adjust Self-Adjusting Clutches		Speed-Shift Low Pedal Effort Clutches		Standard Clutches		
Spline Dia. No. of Splines	Flywheel Bore Opening	No. of Disc Springs	Clamp Load	Clutch Torque (lb/ft) **	Friction Material	PAI Ref.	OEM Ref.	PAI Ref.	OEM Ref.	PAI Ref.	OEM Ref.	Clutch Torque (lb/ft)**
1-3/4" x 10	7"	8	3600	1400	Ceramic(4)	-	-	960200	108063-59	-	-	-
2" x 10	7"	0	3600	-	Organic	-	-	-	-	CCA-9740	107034-30	1000
			3600	-	Ceramic (6VTL)	-	-	-	-	CCA-9742	107034-19	900
		8	3600	1150	Organic	-	-	CCA-9727 EM97270	108034-82 108034-57	CCA-9747 EM97470	107034-82 107034-57	1000
			3600	1000	Ceramic(3)	-	-	CCA-9748	108034-61	CCA-9797	107034-61	1000
			3600	1400	Ceramic(4)	-	-	CCA-9733 ^	108050-59 108950-59 11HB59-P119	CCA-9803	107050-59 107950-59 107034-53	1400
			3600	3600	Ceramic (6VTL)	-	-	-	-	CCA-9743	107050-52	900

14" Stamped Steel Medium Duty Clutches							
Spline Dia. No. of Splines	Flywheel Bore Opening	No. of Disc Springs	Clamp Load	Clutch Torque (lb/ft) **	Friction Material	PAI REF.	OEM REF.
1-3/4" x 10	7"	8	3200	650	Ceramic (3VTL)	CCA-9723	107683-5
			2000	900	Ceramic (3VTL)	CCA-9724	107237-10
			2400	950	Ceramic(3)	CCA-9804	107237-22
			2500	1050	Ceramic(4)	CCA-9805	107237-24
2" x 10	7"	8	2500	950	Ceramic(3)	CCA-9806	10734-12
			2400	1050	Ceramic(4)	CCA-9807	107342-24
310mm 1-1/2" x 10	-	8	2400	400	Ceramic(4)	CCA-9808	107606-1
350mm 1-1/2" x 10	-	8	2400	500	Ceramic(4)	CCA-9809	107621-1
			2400	500	Ceramic(4)	CCA-9812 ◊	107350-4

365mm Medium Duty Clutch (Freightliner M2 Trucks with Hydraulic Linkage)							
Linkage	Flywheel Bore Opening	No. of Disc Springs	Clamp Load	Clutch Torque (lb/ft) **	Friction Material	PAI REF.	OEM REF.
365mm x 1-3/4"	7"	8	2500	860	Ceramic(3)	960337	104200-1
			3200	520	Ceramic(3)	960338	104100-1
			3200	660	Ceramic(3)	960339	104100-2

* Sealed Release Bearing / ** Clutch torque should meet or exceed engine torque / ^^ Includes Spline Saver ^ Super Duty / ° Used with hydraulic linkage ◊ Includes release bearing

PAI is proud to be your official supplier for Heavy and Medium Duty Clutches and Clutch Components.

TWO⁽²⁾ YEAR WARRANTY Unlimited Mileage

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NOV 867 PAI Clutches January 2018

