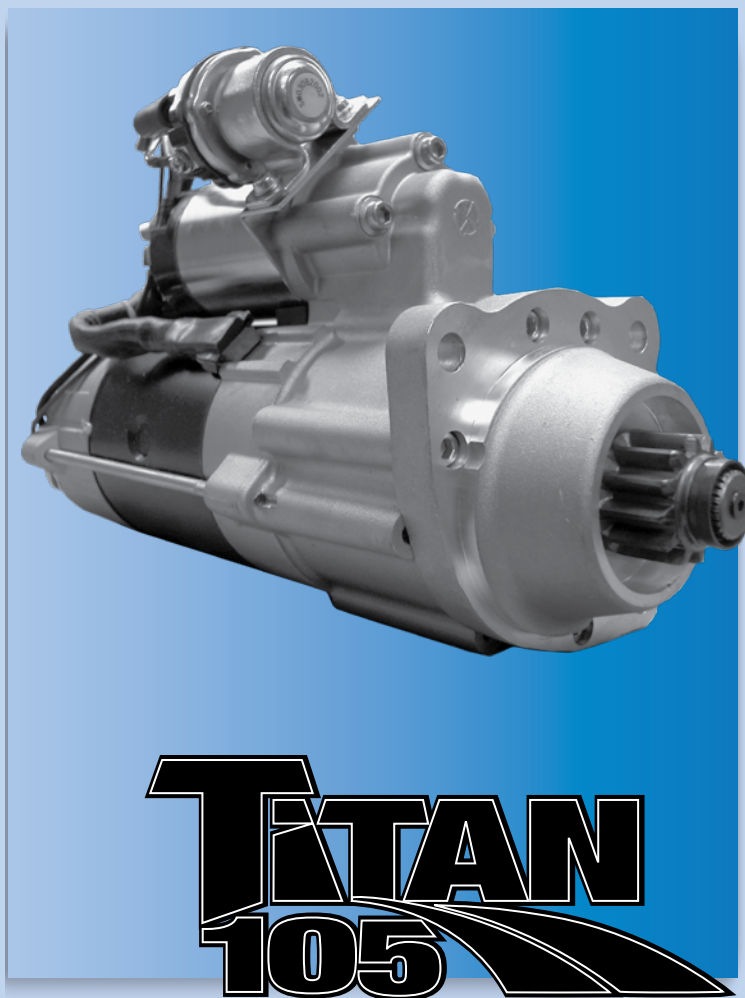


TITAN

HEAVY DUTY
STARTER MOTORS

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Prestolite 
Leece-Neville 

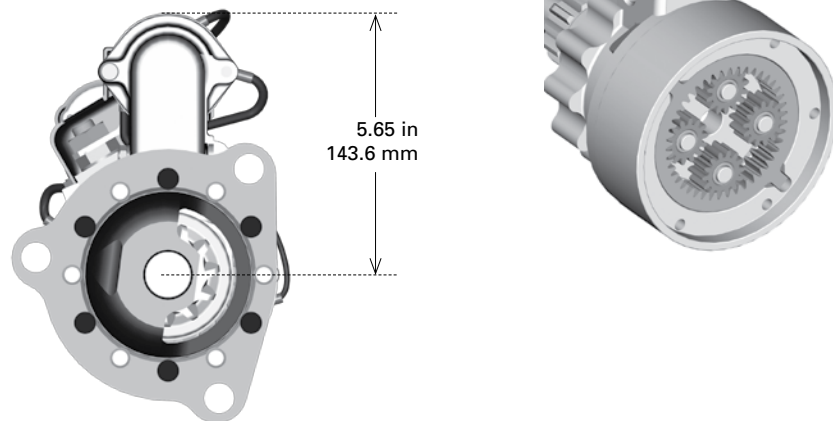
THE TITAN™ IS BORN

Early in 2005 Prestolite Electric Incorporated placed into motion a strategic plan to expand and consolidate our gear reduced starter line.

THE TITAN™ EDGE

Prestolite / Leece-Neville is proud to announce the Titan™ Series of gear reduced starter motors. The new Titan™ brand encompasses our complete line of gear reduced starter motors.

In-line Gear Reduced



With the name Titan™ you expect it to be strong, and this next generation Titan™105 starter motor series will exceed your expectations. Designed specifically for diesel engines up to 11 liters, the gear reduced technology delivers the high torque output and starting power you need, even in severe conditions and low voltages.

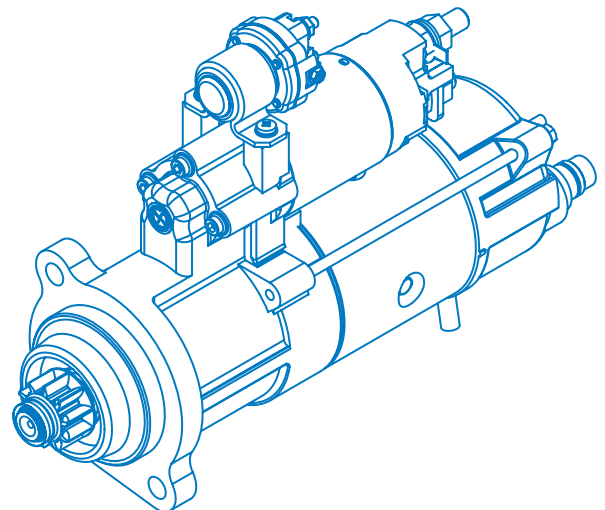
GEAR REDUCTION SYSTEM

COMPACT SIZE, LIGHTER WEIGHT

ELECTRICAL SOFT START

HEAVY DUTY ROLLER CLUTCH DRIVE

INLINE GEAR REDUCED WITH 4 PLANETS



INLINE GEAR REDUCED WITH 4 PLANETS

- Gear reduction yields higher torque in a smaller package.
- Inline design reduces envelope requirements versus offset gear reduced.
- 40% stronger gear box, due to larger component sizes (Planets, annulus, armature pinion).

SOFT ENGAGEMENT

Incorporates additional soft start features.

Soft Start The Leece-Neville 2-stage electrical soft engagement system provides proper pinion to ring gear alignment and full engagement before cranking due to the rotating pinion. This helps prevent wear on pinions and ring gears .

HEAVY DUTY ROLLER CLUTCH DRIVE

Better able to withstand shock loading of gear reduced drives.



Long Life. With our bush-less design, jump start and over crank protection, these powerful starter motors are designed to keep your engines cranking when you need them most.

Service and versatility. The Titan™ Series are a compact size and their light weight makes them easy to service. Rotatable nose housings and flanges give them more versatility than other brands of starter motors.

Capability. The Titan™ 105 provides more power in a smaller package and the in-line design allows for the greatest installation flexibility.

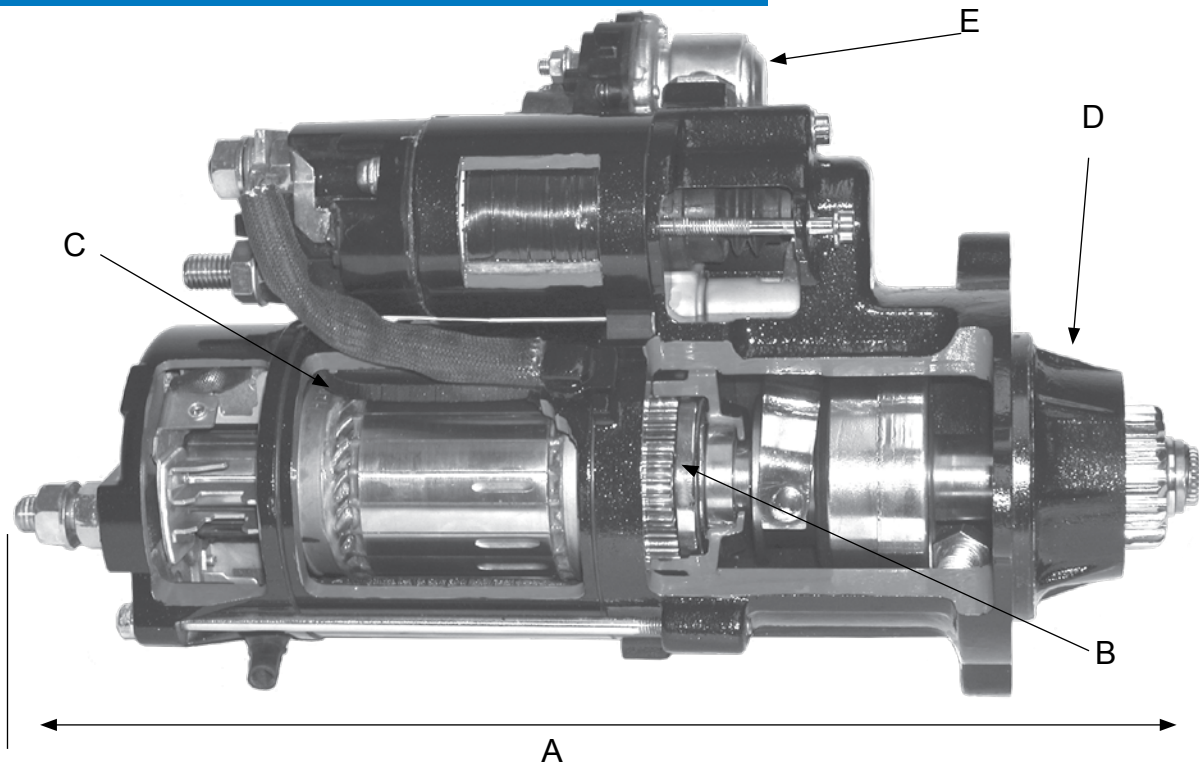
HEAVY AND MEDIUM DUTY POWER

The new Titan™ 105 Series starter motors are 5 kW gear reduced for today's demanding heavy and medium duty applications.

FEATURES AND BENEFITS

Reference	Feature	Benefit
A	Compact size, Lighter weight	Ease of service, reduces overall vehicle weight
B	Inline gear reduced	More power in a smaller package, the in-line design allows for the greatest installation flexibility
C	Electrical soft start	Provides proper pinion to ring gear alignment and full engagement before cranking due to the rotating pinion
D	Sealed noseless design	Protects against ingress of dust, oil, water and other contaminants and abrasives
E	Integral mag switch relay	Minimal wiring between relay and solenoid, assures more reliable starting circuit

A - COMPACT SIZE, LIGHTER WEIGHT



CAUSES AND SOLUTIONS

The new Titan™ Series starter motors provide solutions to the primary causes of starting system malfunction.

LOW BATTERY CHARGE

A battery having a low / poor state of charge will place abnormal stresses on the starting system. The Titan™ is designed to maximize performance, making every crank count.

ADVERSE WEATHER CONDITIONS

A starter motor can become damaged if it operates too long at high temperatures. Excessive heat is generally due to continuous engagement of the starter. Damage to starting system components can occur when the starter motor is cranked for long periods (often due to cold weather starts).

EXCESSIVE VIBRATION

When starting system components are poorly or loosely mounted to the vehicle's engine, the resulting vibration can damage sensitive internal components. The Titan™ evolutionary design withstands high vibration levels, providing high durability and endurance.

CORROSION, DIRT AND DUST

Starting system components operate less efficiently when corrosion forms or dirt particles build up. The Titan™ design deters build up and ingress of foreign materials.

OPERATOR MISUSE

With its evolutionary design, quality engineering and proven capability, the Titan™ will stand up to the rigorous conditions your engine needs to face.

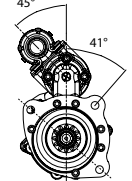
12 VOLT TITAN™ 105 STARTER MOTORS

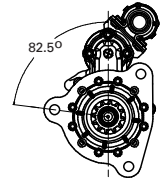
12 VOLT TECHNICAL GUIDELINES

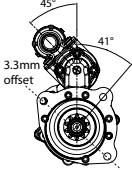
The new Titan™ 105 Series starter motors provides the technology you need for heavy and medium duty diesel engines. Now with rotatable nose / flange.

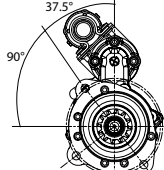
Data		Frame Diameter mm	Voltage	Rotation CW/CCW	Flange (SAE J542 Type)	Flange Angle	Rotatable Nose / Flange	Fixing Holes		Spigot Diameter	Reach (Flange to Ring-gear)	Pinion Rest Position
Part Number	OCP							Diameter	PCD			
M105601	N	105	12/14	CW	1	319	✓	10.92	127	88.8	52.3	47.5
M105602	N	105	12/14	CW	3	82.5	✓	13.74	146	92.0	52.3	47.5
M105610	N	105	12/14	CW	1	319	✓	10.92	127	88.8	52.3	47.5
M105611	N	105	12/14	CW	1	127.5	✓	10.92	127	88.8	52.3	47.5
M105612	N	105	12/14	CW	1	127.5	✓	10.92	127	88.8	52.3	47.5
M105613	Y	105	12/14	CW	3	82.5	✓	13.74	146	92.0	52.3	47.5
M105615	N	105	12/14	CW	3	52.5	✓	16.62	146	92.0	52.3	47.5

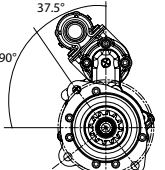
Data		Terminals		Return path & insulation	No. of Teeth	O/D	Pinion				
Part Number	Battery	Negative	Solenoid				PCD	Root Dia	Tooth Form	Pressure Angle	Distance over 2 teeth
M105601	M12X1.75	M12X1.75	M5	M12	12	37.2	30.48	28.14	10/12	20	12.5
M105602	M12X1.75	M12X1.75	M5	M12	12	46.62	38.10	34.60	8/10	20	15.6
M105610	M12X1.75	M12X1.75	M5	M12	10	39.91	31.75	28.58	8/10	20	15.5
M105611	M12X1.75	M12X1.75	M5	M12	10	39.91	31.75	28.58	8/10	20	15.5
M105612	M12X1.75	M12X1.75	M5	M12	12	46.62	38.10	34.60	8/10	20	15.6
M105613	M12X1.75	M12X1.75	M5	M12	12	46.62	38.10	34.60	8/10	20	15.6
M105615	M12X1.75	M12x1.75	M5	M12	11	57.48	46.56	42.00	6/8	20	20.75

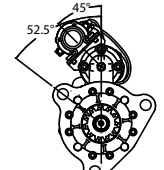
M105601					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	12V CW Rotatable SAE1 Flange	12	10/12	1.46" 37.2mm	1.87" 47.5mm

M105602 / M105613					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	12V CW Rotatable SAE3 Flange M105613 has OCP	12	8/10	1.83" 46.62mm	1.87" 47.5mm

M105610					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	12V CW Rotatable SAE1 Flange ISB07 only 3.3mm offset	10	8/10	1.57" 39.91mm	1.87" 47.5mm

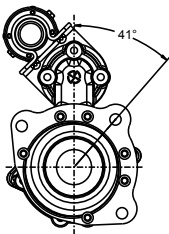
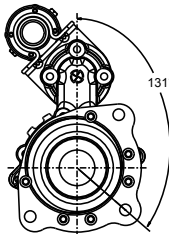
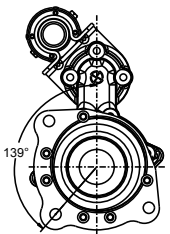
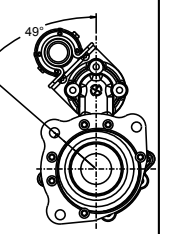
M105611					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	12V CW Rotatable SAE1 Flange	10	8/10	1.57" 39.91mm	1.87" 47.5mm

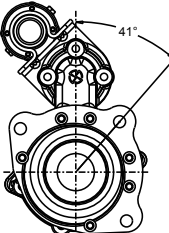
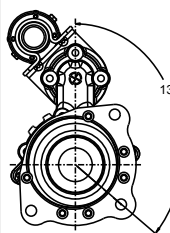
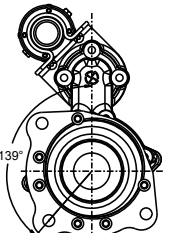
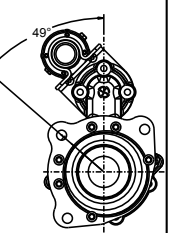
M105612					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	12V CW Rotatable SAE1 Flange	12	8/10	1.83" 46.62mm	1.87" 47.5mm

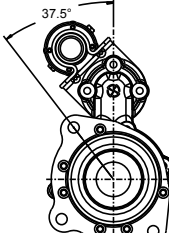
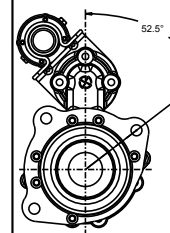
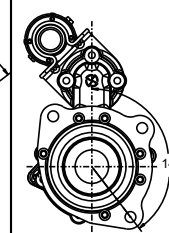
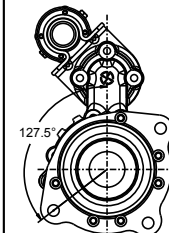
M105615					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	12V CW Rotatable SAE3 Flange	11	6/8	2.26" 57.4mm	1.87" 47.5mm

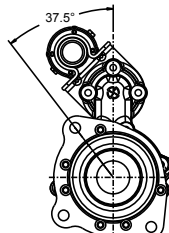
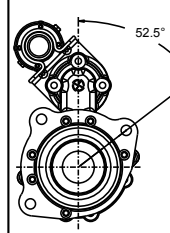
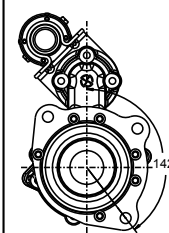
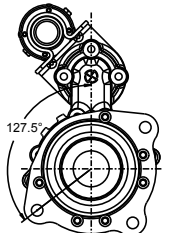
12 VOLT ADDITIONAL FLANGE POSITIONS

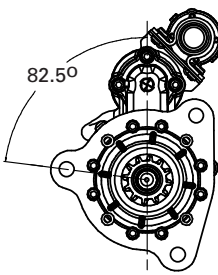
The new Titan™ 105 Series starter motors are for greater versatility with less models in inventory.

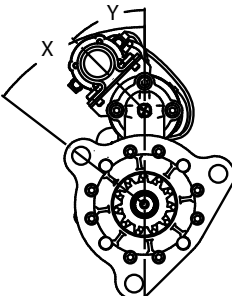
M105601 Flange Clocking			
Original Position	90° Nose Position	180° Nose Position	Mirrored Nose Position
			

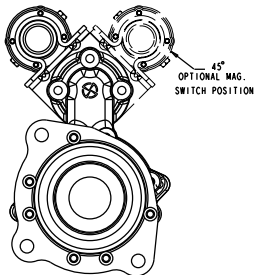
M105610 Flange Clocking			
Original Position	90° Nose Position	180° Nose Position	Mirrored Nose Position
			

M105611 Flange Clocking			
Original Position	90° Nose Position	180° Nose Position	Mirrored Nose Position
			

M105612 Flange Clocking			
Original Position	90° Nose Position	180° Nose Position	Mirrored Nose Position
			

M105602/M105613 Flange Clocking			
Original Position	Alternative Mountings		
	ALTERNATIVE MOUNTINGS		
	FLANGE POSITION		
	NO	ANGLE X	
	1	52.5°	Rotate 30° CW
	2	82.5°	AS SUPPLIED
	3	172.5°	Rotate 90° CCW
	4	202.5°	Rotate 120° CCW
	5	292.5°	Rotate 210° CCW
	6	322.5°	Rotate 240° CCW
	RELAY POSITION		
POS	ANGLE Y		
A	90°	Rotate 135° CCW	
B	45°	Rotate 90° CCW	
C	0°	Rotate 45° CCW	
D	-45°	AS SUPPLIED	
E	-90°	Rotate 45° CW	

M105615 Flange Clocking																																																	
Original Position	Alternative Mountings																																																
	<table><tr><th colspan="3">ALTERNATIVE MOUNTINGS</th></tr><tr><th colspan="3">FLANGE POSITION</th></tr><tr><th>NO</th><th>ANGLE X</th><th></th></tr><tr><td>1</td><td>52.5°</td><td>AS SUPPLIED</td></tr><tr><td>2</td><td>82.5°</td><td>Rotate 30° CCW</td></tr><tr><td>3</td><td>172.5°</td><td>Rotate 120° CCW</td></tr><tr><td>4</td><td>202.5°</td><td>Rotate 150° CCW</td></tr><tr><td>5</td><td>292.5°</td><td>Rotate 240° CCW</td></tr><tr><td>6</td><td>322.5°</td><td>Rotate 270° CCW</td></tr></table> <table><tr><th colspan="3">RELAY POSITION</th></tr><tr><th>POS</th><th>ANGLE Y</th><th></th></tr><tr><td>A</td><td>90°</td><td>Rotate 45° CCW</td></tr><tr><td>B</td><td>45°</td><td>AS SUPPLIED</td></tr><tr><td>C</td><td>0°</td><td>Rotate 45° CW</td></tr><tr><td>D</td><td>-45°</td><td>Rotate 90° CW</td></tr><tr><td>E</td><td>-90°</td><td>Rotate 135° CW</td></tr></table>	ALTERNATIVE MOUNTINGS			FLANGE POSITION			NO	ANGLE X		1	52.5°	AS SUPPLIED	2	82.5°	Rotate 30° CCW	3	172.5°	Rotate 120° CCW	4	202.5°	Rotate 150° CCW	5	292.5°	Rotate 240° CCW	6	322.5°	Rotate 270° CCW	RELAY POSITION			POS	ANGLE Y		A	90°	Rotate 45° CCW	B	45°	AS SUPPLIED	C	0°	Rotate 45° CW	D	-45°	Rotate 90° CW	E	-90°	Rotate 135° CW
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Mag Switch Position	
Where used	45° Mag Position
M105610 M105611 M105612	

12 VOLT CROSS REFERENCE / APPLICATIONS

The new Titan™ 105 Series starter motors are designed specifically for heavy and medium duty diesel engines up to 11 Liters.

Sales Number	Engine	Application Info.	Delco	Mitsubishi	Denso	International Truck	Prestolite
M105601			1993883		228000-5850		
			1993891		228000-5851		
			10461301		** See Note		
			10479307				
M105602	Cummins ISC,ISL International DT466E,DT530, DT570 Max Force DT9&10 Cat 3208	Freightliner Sterling Western Star International Truck	1990316	20430285 *	228000-851	1614303C91	M130D2001H (3672731C92)
			1990319	20520903 *	3601668C91	2011457C91	M130D2004H (3808509C92)
			1990405 *	3667911C91	428000-1422	2011847C91	MS2-530 (3574175C94)
			1993713	85103338 *	** See Note	2018380C91	MS2-570 (3593808C92)
			1993763	IN2178		2018381C91	
			1993778	MITIN1378		3601668C91	
			1993874	M009T70979*		3804472C92	
			1993928	M970979		3804473C92	
			1993969	PB0979 *		3667911C91	
			8200005	PC0779 *			
			8200030 *	VV0279 *			
			8200042				
			8200050 *				
			8200080				
			8200081				
			8200087				
			8200107				
			8200218				
			8200219				
			8200360				
			8300005				
			8300007				
			8300015				
			10461089				
			10461169				
			10461171				
			10461227				
			10461277				
			10461385				
			10461386				
			10461435				
			10461501 *				
			10461757 *				
			10461769				
			10478999				
			10479250				
			10479251 *				
			10479300				
			19011510 *				
			19011525 *				
			19026028				
			19026029				
			1614303C91				
			2011457C91				
			2011847C91				
			2018380C91				
			2018381C91				
			323-897				
			KW0779				

*Approved for diesel engines up to 11L maximum.

** M105 may be too long for some applications. Please verify fit : M105 Length = 13.66", Denso R5 Length = 10.92"

12 VOLT CROSS REFERENCE / APPLICATIONS

Cross Reference (Continued)

Sales Number	Engine	Application Info.	Delco	Mitsubishi	Denso	International Truck	Prestolite
M105610			8200014				
			8200023				
			8200077				
			8300024				
			10461764				
			10461771				
			19011400				
			19011402				
			19011404				
			19011407				
M105611 Can replace MS2-520			1046103		028000-329		
			1113402		028000-504		
			1113640		** See Note		
			1113641				
			1113644				
			1113650				
			1113651				
			1113653				
			1113656				
			1113672				
			1113676				
			1113690				
			1990308				
			1990309				
			1990312				
			1990315				
			1990318				
			1990326				
			1993754				
			1993762				
			1993769				
			1993799				
			1993881				
			1993886				
			1993947				
			1993963				
			8200076				
			8300021				
			10461003				
			10461081				
			10461225				
			10461768				
			10461282				
			10478953				
			10478957				
			10479036				
			10479226				
			19011409				
			19026027				

*Approved for diesel engines up to 11L maximum.

** M105 may be too long for some applications. Please verify fit. M105 Length = 13.66", Denso R5 Length = 10.92"

12 VOLT CROSS REFERENCE / APPLICATIONS

Cross Reference (Continued)

Sales Number	Engine	Application Info.	Delco		Denso	International Truck	Prestolite
M105612 Can replace MS2-521			1993885	10461434	228000-5850		
			10461456	10461431	228000-5851		
			10479014	10479207	** See Note		
			10479071	10479215			
			10479278	10479242			
			10479098	10461496			
			10479206				
M105613	Cummins ISC, ISL International DT466E, DT530, DT570 Max Force DT9&10 Cat 3208	Freightliner Sterling Western Star International Truck	R0461384	19011526			M130D2002HP (3672730C92)
			10461233	1990406			M130D2005HP (3808510C92)
			10461304	8200081			MS2-531 (3574176C94)
			10461384	8200082			MS2-571 (3593812C92)
			10478812	8300007			
			19011525	8300008			
		Delco			Mitsubishi	International	
M105615	Mack E7, Cummins ISM, ISL, CAT C9, C10, C11	8200037	8200308	19011517	MIB970975	D61-6002-008	3815734C91
		8200050	8300009	19011518	MIB970975FL	PC0979	
		8200090	8300019	19011521	FL0975	PC1479	
		8200091	8300020	19011529	MIB970777	PC1879	
		8200104	10461777	19011530	MIB970777FL	M983579	
		8200288	19011500	19011531	FL0777	20851006	
		8200289	19011505		FL0579	VV0776	
		8200290	19011516		IN1478	VV0977	
					D61-6002-004		

*Approved for diesel engines up to 11L maximum.

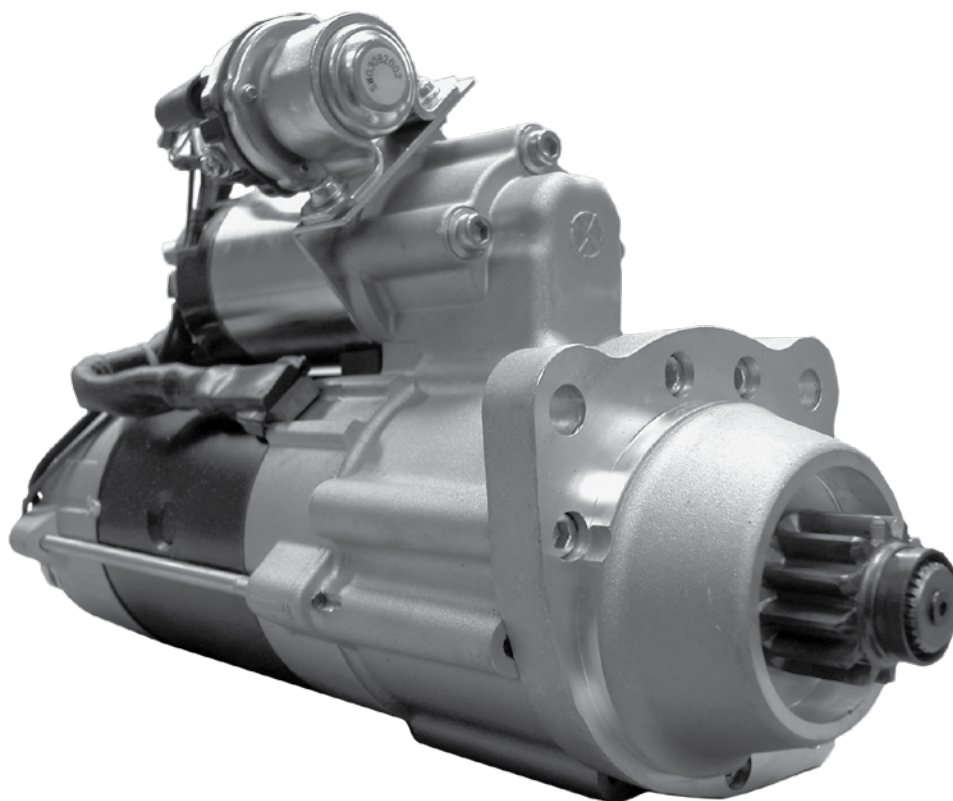
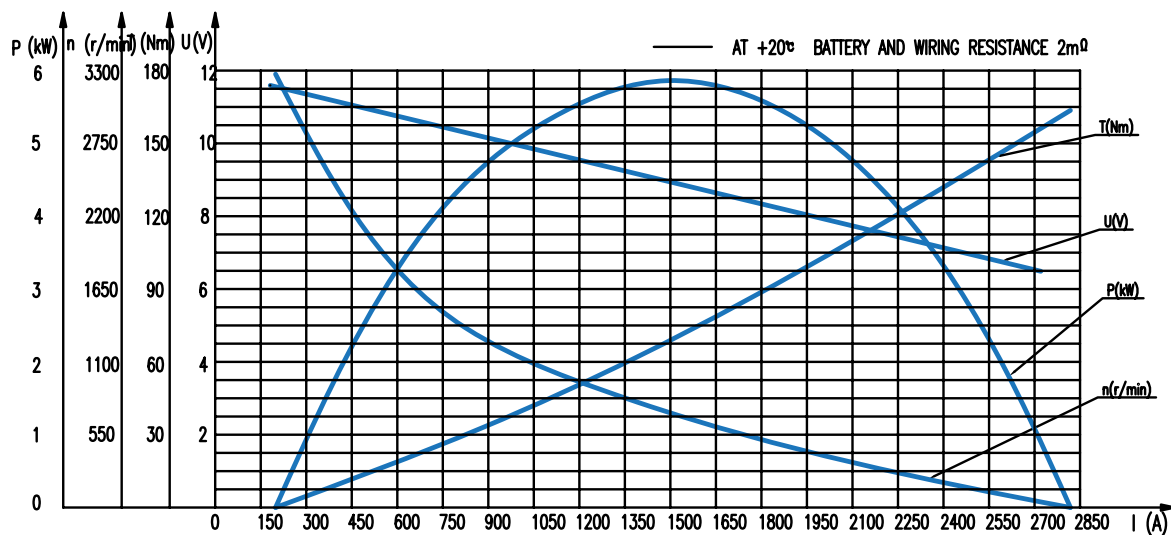
** M105 may be too long for some applications. Please verify fit : M105 Length = 13.66", Denso R5 Length = 10.92"

Applications

Prestolite Number	Engine	Replaces Various Starters	Popular Applications
M105601	INTERNATIONAL: D358	37MT, 41MT, R4	International, Waukesha
	CAT: 3208	37MT, 41MT, R4	Case AG Equip., New Holland Ag
	CAT: 3126	37MT, 41MT, R4	Ford Truck
M105302 M105602*	INTERNATIONAL: 466 & 570	37MT, 38MT, R4, P5	Dura Star 4000, Work Star 7000, Navistar
	CUMMINS: ISC, ISL	38MT, 39MT, 41MT, R5, P8, Mitsubishi	Sterling, Freightliner, International, Peterbilt, Kenworth, Int'l Bus
	CAT: C7, C9, C10, C11	38MT, 39MT, 41MT, R5, P8, Mitsubishi	Sterling, Freightliner, International, Peterbilt, Kenworth, MCI Bus
M105610	CUMMINS: OSB07	29MT, Denso	Sterling, Freightliner, International, Ford
M105611	CAT: 3116, 3126, C7	37MT, 38MT, R4, MS2-520	GMC, Freightliner, Peterbilt, Kenworth, Ford 650/750, International Bus, Blue Bird Bus
	CUMMINS: M11	R5	Sterling, Freightliner, Peterbilt, Kenworth, International, Volvo
	PERKINS: 4-248, 6-354	37MT	Clark Equipment
M105612	CAT: 3116, 3126, C73, C7	37MT, 41MT, R4, MS2-521	Blue Bird Bus, GMC Trucks, Ford Trucks, Freightliner, Kenworth, Peterbilt, Sterling, Western Star
	JOHN DEERE: 544G, 624G, 643G, 644G, 843G	37MT, 41MT, R4	John Deere Ag & Industrial
M105615	Mack E7	Mack	Mack
	Cummins ISM		Freightliner, Western Star, Navistar, Kenworth, Peterbilt
	Cummins ISL		Volvo
	CAT C9, C10, C11		Kenworth, Peterbilt

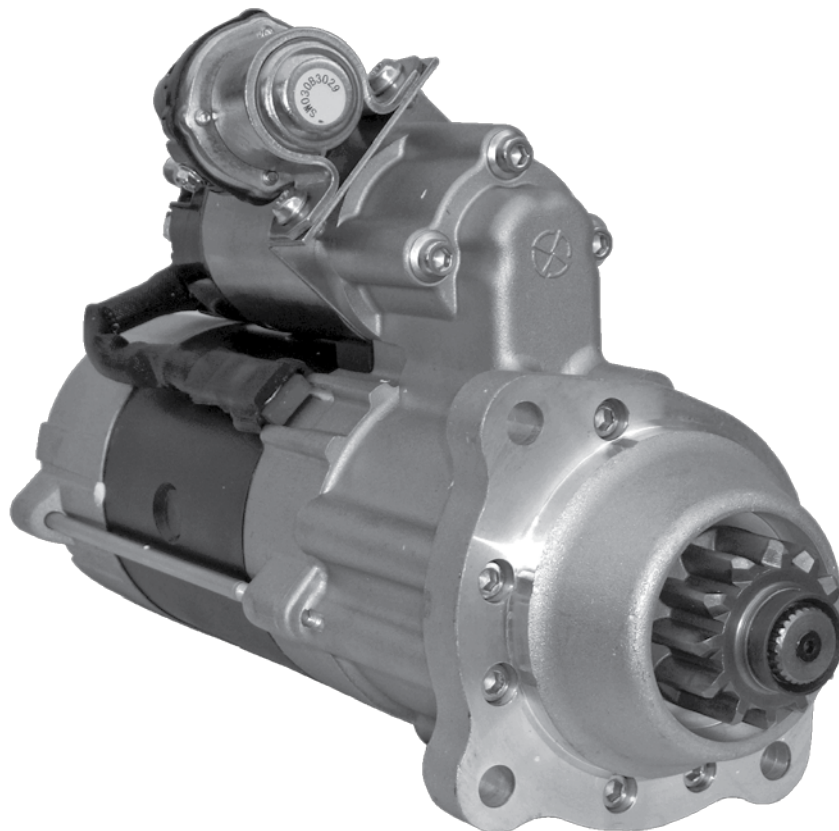
STACKING UP TO PERFORMANCE

12 VOLT PERFORMANCE CURVE



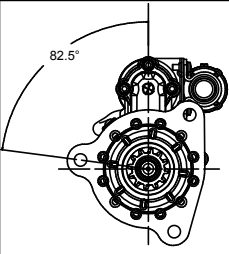
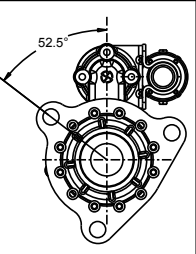
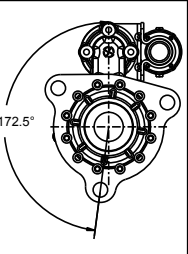
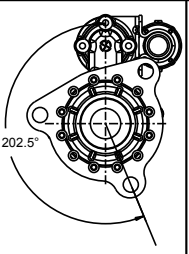
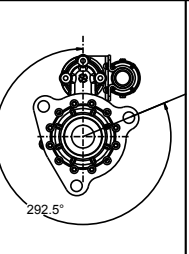
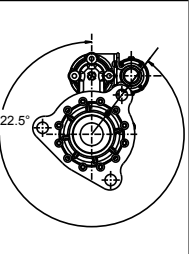
24 VOLT TITAN™ 105 STARTER MOTORS

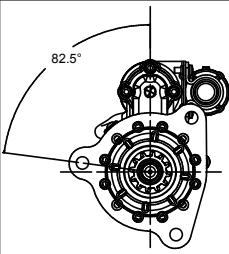
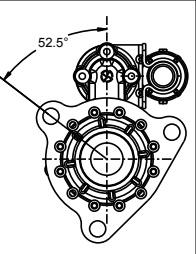
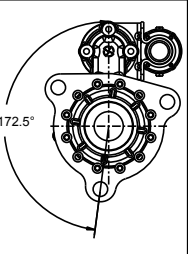
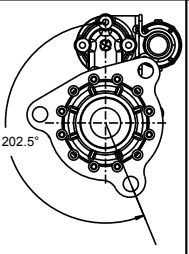
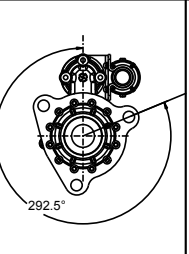
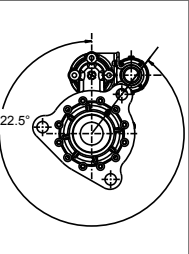
24 Volt

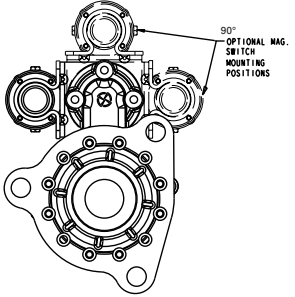


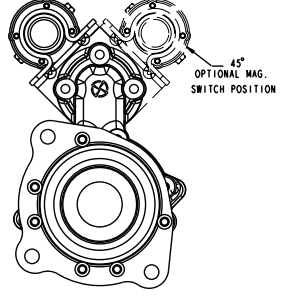
24 VOLT ADDITIONAL FLANGE POSITIONS

The new Titan™ 105 Series starter motors are for greater versatility with less models in inventory.

M105702 Flange Clocking					
Original Position	30° Nose Position	90° Nose Position	120° Nose Position	210° Nose Position	240° Nose Position
					

M105703 Flange Clocking					
Original Position	30° Nose Position	90° Nose Position	120° Nose Position	210° Nose Position	240° Nose Position
					

Mag Switch Position	
Where used	90° Mag Position
M105702 M105703	

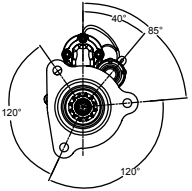
Mag Switch Position	
Where used	45° Mag Position
M105704	

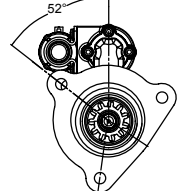
24 VOLT TECHNICAL GUIDELINES / APPLICATIONS

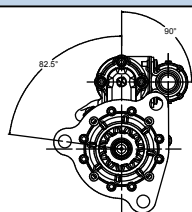
The new Titan™ 105 Series starter motors provides the technology you need for heavy and medium duty diesel engines.

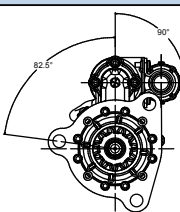
Data											
Part Number	Frame Diameter mm	Voltage	Rotation CW/CCW	Flange (SAE J542 Type)	Flange Angle	Flange Thickness	Fixing Holes		Spigot Diameter	Reach (Flange to Ring-gear)	Pinion Rest Position
M105431	105	24/28	CW	3	275	17	14.17	146	92.0	54.42	49.5
M105432	105	24/28	CW	3	52	17	14.20	146	92.0	51.3	47.5
M105702	105	24/28	CW	3	82.5	17	11.43	127	92.0	52.3	47.5
M105703	105	24/28	CW	3	82.5	17	14.95	146	92.0	52.3	47.5

Data											
Part Number	Battery	Negative	Solenoid	Return path & insulation	No. of Teeth	O/D	PCD	Root Dia	Tooth Form	Pressure Angle	Distance over 2 teeth
M105431	M12X1.75	M6	M5	M12	12	43.8	36	30.5		14.5	14.36
M105432	M12X1.75	M12X1.75	M5	M12	11	53.0	44	36.7		14.5	18.95
M105702	M12X1.75	M12X1.75	M5	M12	11	57.6	46.6	42.3	6/8	20	15.6
M105703	M12X1.75	M10X1.50	M5	M12	12	46.8	38.1	34.6	6/8	20	20.8

M105431					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	24V CW Fixed SAE3 Flange	12	M3	1.73" 44mm	1.91" 49.5mm

M105432					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	24V CW Fixed SAE3 Flange	11	M4	2.09" 53.2mm	1.83" 47.5mm

M105702					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	24V CW Rotatable SAE3 Flange	11	6/8	2.27" 57.6mm	1.87" 47.5mm

M105703					
Front View	Details	Teeth	Pinion Details		
			Pitch	OD	Pinion at rest
	24V CW Rotatable SAE3 Flange	12	8/10	1.84" 46.7mm	1.87" 47.5mm

The new Titan™ 105 Series starter motors are designed specifically for heavy and medium duty diesel engines up to 14 Liters *.

Prestolite #	First Application	
	Engine / Customer / Application	
M105431	MERCEDES-BENZ- Axor Series, Citaro Series, Citaro Series, Integro Series, Travego Series Kassbohrer S315, S316, S319, S415, S416, S417	Replacing Bosch, Mitsubishi and Delco
M105432	Renault	Replacing Mitsubishi and Valeo
M105702	Cummins M11/ISM/ISX, CNH, Freightliner	Replacing Delco 39MT and Mitsubishi 105P70
M105703	Cummins ISC/ISL	Replacing Delco 38MT and Mitsubishi 90P55

* Larger engines subject to application engineering approval.

24 VOLT CROSS REFERENCE

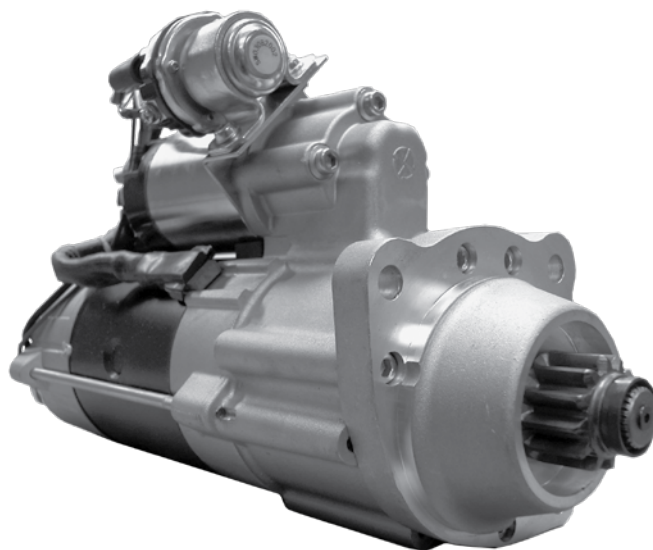
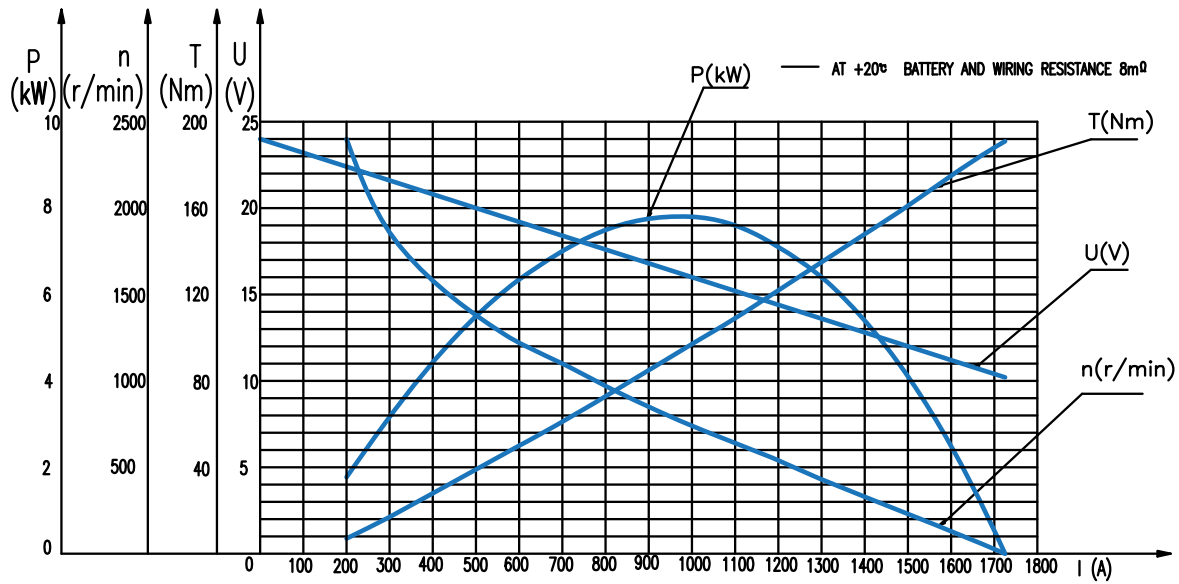
The new Titan™ 105 Series starter motors are designed to cross reference the following competitor models:

Part Number	Sales Number	Cross Reference						
		Delco	Mitsubishi	Mercedes	Renault	Bosch	Valeo	Cummins
M105R3031SE	M105431	19011501	M009T83671	457 151 0301		0 001 372 005		
		19070033	M009T80472	005 151 5001		0 001 372 006		
		19070034		005 151 6401		0 001 330 011		
		DRS8370		006 151 0001		0 986 020 880		
		DRT0880		005 151 7001		0 986 018 370		
				006 151 1501				
				006 151 6901				
M105R3032SE	M105432	19024186	M009T80071		5001 014212		D13HP613	
		DRS3815	M009T80271		5001 846324		D13HP705	
					5001 854179		D13HP709	
					5010 306701		187501	
							188137	
							438009	
							455723	
							455742	
							ND172	
M105R3502SE	M105702	8200022*						3103305
		8200034						3103916
		8200041						3103952
		10461754						
		10478998						
		10479111						
		10479119						
		10479164						
		10479252						
		19011507						
		19011522						
		19011531*						
M105R3503SE	M105703	10478817*	3965284					3965284
		10479221*						
		19026030						

* Rotate nose

STACKING UP TO PERFORMANCE

24 VOLT PERFORMANCE CURVE



Updated Information is available in these brochures:

FL1208



FL1210



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