

## 12V GEAR REDUCTION STARTERS FOR DIESEL ENGINE APPLICATIONS











## **DESIGNED FOR YOUR TOUGHEST APPLICATIONS**

For over 35 years, the biggest names in engine manufacturers have chosen one name in cranking power — DENSO. As the world's largest starter manufacturer, our starters simply install faster and perform better under rigorous conditions. The DENSO commitment to quality, durability, performance and innovation is the reason our components are truly better by design.



## **FEATURES / BENEFITS**

- Compact and lightweight design
- High torque for maximum starting power
- High durability for the most demanding applications
- Impact torque limiter used to prevent ring gear damage
- Self-contained clutch shaft
- Solenoid and clutch arranged co-axially for smooth engagement
- Sealed heavy-duty ball bearings
- Two-hole mount replaces OE three-hole design for easier installation

Trailer/Yard Jockey E	quipment)					
ngine OE	Model	New Part No.	Reman Part No.	Application	Size	Additional Information
ATERPILLAR	6.6/7.2L Engine A/T 3126	228000-7121	280-8004	SAE #3	12V 4.0kW	Wet Clutch, Ground Stud
ATERPILLAR	6.6/7.2L Engines Pass. Side 3126	228000-9750	280-8012	Kodiak, Topkick	12V 4.0kW	Dry Clutch, Ground Stud, Jump Start Protection
ATERPILLAR	6.6/7.2L Engines M/T 3116 & 3126	428000-1610		SAE #2	12V 4.0kW	Dry Clutch, Ground Stud
elivery Fleets, Pick-	up & Delivery Fleets, Recreation Vehicles, Sch	rs, Excavators, Motorgrad 1001 Bus Fleets, Terminal	des, Wheel Loaders), [ Tractor	Dodge Trucks, Ford Trucks (F550, F650, F750), Frei	ghtliner FL Series Medi	um Duty Trucks, Generator Sets/Compressor Units, Packago
ngine OE	Model	New Part No.	Reman Part No.	Application	Size	Additional Information
IMMINS	Cummins ISB 5.9L	228000-2292	9722809-229	Dodge Pick Up, 1994 - 2002	12V 2.7kW	Dry Clutch, Driver Side
UMMINS	Cummins ISB 5.9L	228000-3811			12V 2.7kW	Wet Clutch, Driver Side
UMMINS	Cummins ISC 8.3L	228000-5311	280-8002		12V 4.0kW	Dry Clutch, Ground Stud, Driver Side
UMMINS	Cummins ISC 8.3L	228000-6511			12V 4.0kW	Wet Clutch, Ground Stud
JMMINS	Cummins ISB 5.9L	228000-7280		Thomas Built Bus	12V 4.0kW	Dry Clutch, Ground Stud
UMMINS	Cummins ISB 5.9L	228000-7291		Thomas Built Bus	12V 4.0kW	Dry Clutch, Ground Stud
UMMINS	Cummins ISB 5.9L	428000-1600	280-8018	FL70, Package Delivery	12V 2.7kW	Dry Clutch, Ground Stud, Pass. Side
UMMINS	Cummins ISB 5.9L	428000-5940		Dodge Pick Up, 2003 - 2006	12V 2.7kW	
UMMINS	Cummins ISB 6.7L	428000-6110		Dodge Pick Up, 2007	12V 3.0kW	PA90S
	ment of Transportation (DOT), Emergency Ve Ipport Trucks for Misc. Large Fleets (Garbage,			s, Mechanical Services Fleets (HVAC, Electrical, etc	.), Rental Car Shuttle B	suses, Road Construction Fleets, Support Trucks for Airport
ngine OE	Model	New Part No.	Reman Part No.	Application	Size	Additional Information
ORD / NAVISTAR	6.9/7.3L A/T & M/T	228000-8410	280-8007	8 - 3	12V 4.0kW	Wet Clutch
ORD / NAVISTAR	7.3L A/T & M/T, Direct Injection	228000-8420	280-8008	Power Stroke	12V 4.0kW	Wet Clutch
pplications: City De	livery Fleets, Cargo Delivery, Furniture Delive	ry, Landscape, Rental Eq	uipment			
ngine OE	Model	New Part No.	Reman Part No.	Application	Size	Additional Information
INO	J08C-TI 8.0L	228000-6253	9722809-625	YJ22 MT	12V 4.8kW	
INO	J08C-T1	228000-6261	9722809-626	YJ22A	12V 4.8kW	
IINO	J05C-T1	228000-6383	9722809-638	YJ21	12V 2.5kW	
HINO	J05D	428000-2503		NA, NB, NC	12V 2.5kW	A CONTRACTOR OF THE PROPERTY O
IINO	J08, J08E	428000-2511	9742809-251	ND, NE, NF, NV	12V 4.0kW	
pplications: Armore	d Car, Beverage, Bottled Water Distributor, Co	argo Delivery, Furniture I		andscape, Newspaper Delivery, Rental Equipment	. School Bus. Uniform [	Delivery and Waste Management Fleets
ngine OE	Model	New Part No.	Reman Part No.	Application	Size	Additional Information
NTERNATIONAL	DT466E	428000-2690			12V 4.0kW	Wet Clutch, Ground Stud
NTERNATIONAL	T444E	228000-7371	280-8020	4700	12V 4.0kW	Dry Clutch
NTERNATIONAL	DT466	228000-8510*	280-8011	4300	12V 4.0kW	Wet Clutch
NTERNATIONAL	VT365	428000-0071	200 0011	1652 Strip Chassis	12V 4.0kW	Wet Clutch
	livery Fleets, Cargo Delivery, Furniture Delive		uinment	3019 0100313	.27 1.01.77	
ngine OE	Model	New Part No.	Reman Part No.	Application	Size	Additional Information
SUZU	6BD1	128000-0494	9712809-049	присатоп	12V 3.0kW	Additional information
SUZU	6SA1	128000-0454	7/12007 077	FRR 13	24V 5.5kW	
SUZU	6SA1	128000-2431	7	FTR	24V 5.5kW	
SUZU	03/1	128000-2742	1.	EIF NKR	12V 2.0kW	
SUZU	6HE1-T 7.1/7.8L	228000-2807	9722809-280	EVR, FRR, FSR, FTR, GMC Trucks	12V 2.0KW	
SUZU	4JG2	228000-2807	7/22007-200	Elf NHR69	12V 3.0kW	
SUZU	4HE-1 3.9/4.8L	228000-3144		Elf NPR, NOR, GMCTrucks	12V 2.0kW	
	4HE1-T 3.9/4.8L	228000-7004	9722809-818	EIF NPR, NQR, GMC Trucks	12V 3.0kW	
SUZU SUZU	6HK1-TC 7.8L I6	228000-8182	9/22809-818	Topkick		
			Landaran Webirt		12V 4.0kW	
				Liquid Bulk, Mixers, Refuse, School Bus Fleets, To		Alle
ngine OE	Model	New Part No.	Reman Part No.	Application	Size	Additional Information
IERCEDES	Mercedes 904	428000-0310		M2 Business Class & Package Delivery	12V 2.7kW	Dry Clutch, Ground Stud
MERCEDES	Mercedes 906 & 926	428000-1881		M2 Business Class & Sterling Acterra	12V 4.0kW	Dry Clutch, Ground Stud



