



## R5.0 OFFSET GEAR REDUCTION STARTERS FROM THE LARGEST STARTER MANUFACTURER



### DESIGNED FOR YOUR TOUGHEST APPLICATIONS

For over 35 years, the biggest names in engine manufacturers have chosen one name in cranking power — DENSO Heavy Duty. As the world's largest manufacturer of starters, our starters 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.



## SPECIFICATIONS

- 12V 5.0 kW
- Weight: approximately 23.8 lbs.
- Pinion: DP6/8 10 tooth, DP8 10 tooth, (Interchangeable with competitors 11 and 12 tooth)
- Rotation: Clockwise
- Mount: SAE #3
- OCP By-Pass Kit Available  
Part Number 053680-8010

## FEATURES / BENEFITS

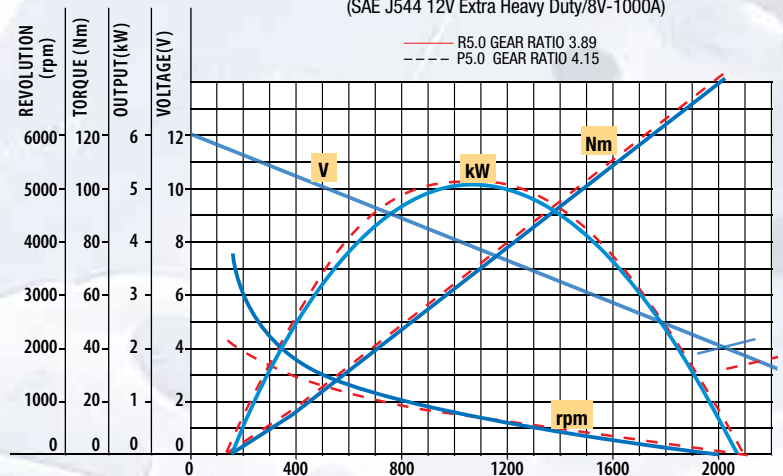
- Lightest class-8 starter in the market
- High durability for the most demanding applications
- High torque for maximum starting power (improved cold start-ability); highest in the industry.
- Smooth engagement for improved durability of pinion and ring gear
- Torque limiter feature to prevent ring gear/drive train breakage.
- **Warranty: 3 years / 350,000 miles (On-Road Applications)**

## ENGINE RECOMMENDATION CHART

TYPE		ENGINE DISPLACEMENT
Offset Reduction Gear Type	R5.0	10 12 14 16 18 [L]

## R5.0 OUTPUT PERFORMANCE

(SAE J544 12V Extra Heavy Duty/8V-1000A)



## R5 STARTER TRUCK ENGINE/MODEL APPLICATION CHART

Engine/Truck Model	Freightliner	Sterling	International (Thru MY2006)	Peterbilt	Kenworth	Mack	Volvo	Western Star
CAT C11			428000-4420		428000-4420			
CAT C12			428000-4420 <sup>(C)</sup>	428000-4420 <sup>(B)</sup>				428000-4420 <sup>(E)</sup>
CAT C13	428000-4420	428000-4420	428000-4420	428000-4420	428000-4420			
CAT C15	428000-4420	428000-4420	428000-4420	428000-4420	428000-4420			428000-4420 <sup>(B)</sup>
Cummins ISM	428000-4420	428000-4420	428000-4420	428000-4420	428000-4420		428000-4420	
Cummins ISX	428000-4440 428000-5190		428000-4440 428000-5190	428000-5190	428000-5190			
Cummins ISX w/ IMS Relay	428000-5170 (MY2010-)		428000-5170 (MY2007-)					
Cummins M11	428000-4430	428000-4430	428000-4430	428000-4430	428000-4430			
Cummins N14	428000-4440	428000-4440	428000-4440	428000-4440	428000-4440		428000-4440	
DD S60	428000-4430 <sup>(A)</sup> 428000-5730	428000-4430 <sup>(A)</sup> 428000-5730	428000-4430 <sup>(A)</sup> 428000-5730	428000-4430 <sup>(A)</sup> 428000-5730	428000-4430 <sup>(A)</sup> 428000-5730		428000-4430 <sup>(A)</sup> 428000-5730	428000-4430 <sup>(AB)</sup> 428000-5730 <sup>(B)</sup>
DTNA DD13 w/ IMS Relay	428000-8690 <sup>(F)</sup>							428000-8690 <sup>(F)</sup>
Mack E-Tech, E-7						428000-4430		
MaxxForce 11 w/ IMS Relay			428000-8370 <sup>(G)</sup>					
MaxxForce 13 w/ IMS Relay			428000-8370 <sup>(G)</sup>					
MBE 4000	428000-4450	428000-4450						428000-4450
Volvo VE12							428000-5430	

## SIZE COMPARISON



IIF Starter  
P5.0 Starter

Contact Your DENSO Sales Rep Or  
Visit [www.DensoHeavyDuty.com](http://www.DensoHeavyDuty.com)  
For Updated Application Information



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<sup>(A)</sup> 1994-2006 when the fuel filter is outside the frame rail (single fuel filter)

<sup>(B)</sup> 2007 Model Year Only

<sup>(C)</sup> 1998 Model Year Only

<sup>(D)</sup> 1999 Model Year Only

<sup>(E)</sup> 1997 Model Year Only

<sup>(F)</sup> 2007 Model Year Forward

<sup>(G)</sup> 2007 Model Year Forward