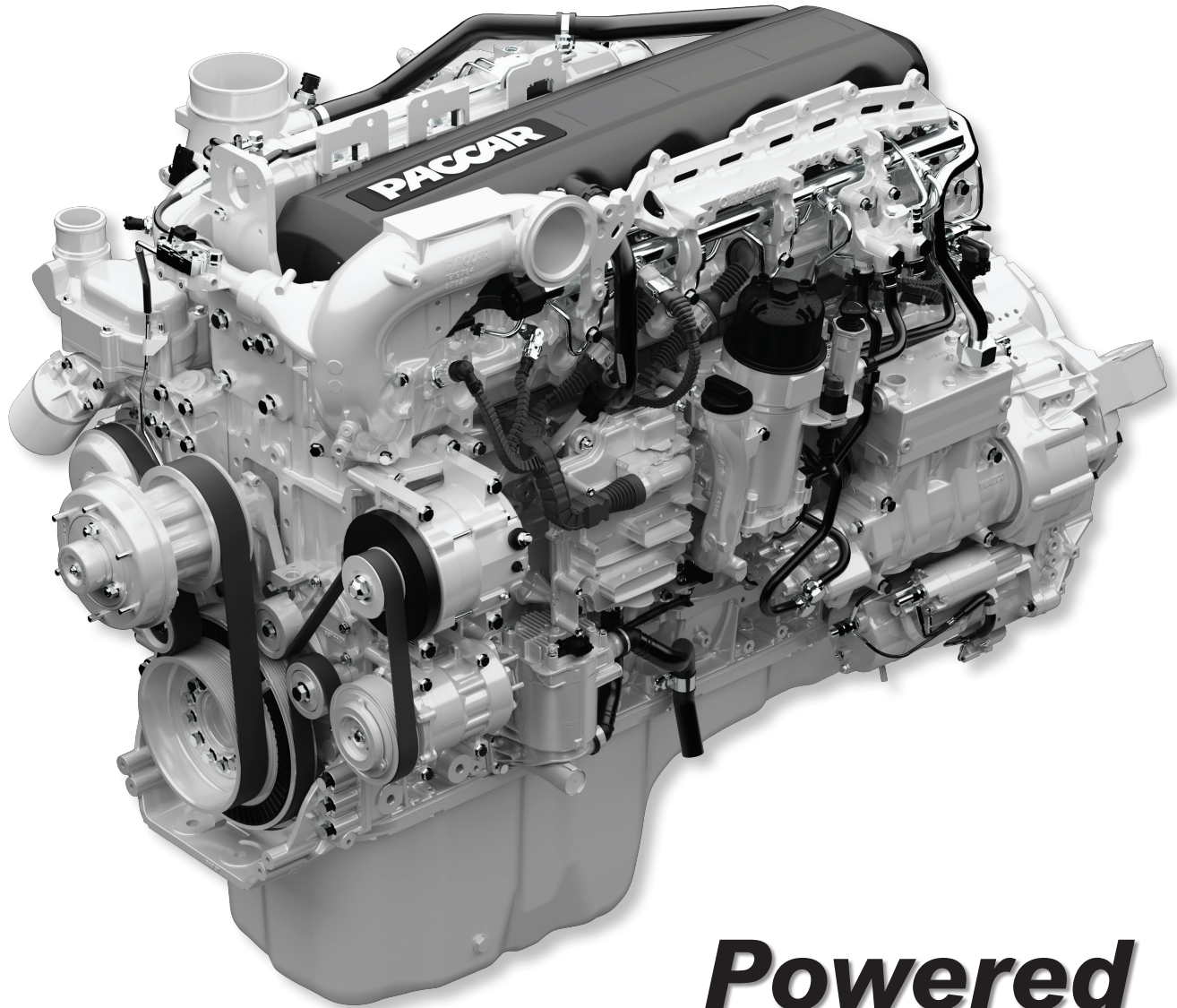


# PACCAR MX-13



***Powered  
By  
Quality***










# PACCAR MX-13

## Powered By Quality



The 12.9-liter PACCAR MX-13 engine is characterized by its combination of proven technologies and state-of-the-art innovations that improve fuel economy. Power offerings are expanded with the addition of a 500 horsepower rating with 1,850 lb-ft of torque. The new PACCAR MX-13 engine's common rail system with injection pressures to 2,500 bar, helps achieve the lowest possible fuel consumption, emission and noise levels. The PACCAR MX-13 engine is designed to meet the demands of both linehaul and vocational heavy-duty truck applications.

### RATINGS

ENGINE HORSEPOWER	PEAK TORQUE LB-FT @ RPM	
380	1,450 @ 1,000	
405	1,450 @ 1,000	
405	1,550/1,750 @ 1,000*	
430	1,550 @ 1,000	
430	1,550/1,750 @ 1,000*	
455	1,650 @ 1,000	
455	1,550/1,750 @ 1,000*	
485	1,650 @ 1,000	
500	1,850 @ 1,100	

\*Multi Torque Rating

### SPECIFICATIONS

CONFIGURATION	INLINE 6-CYLINDER
BORE X STROKE (MM)	130 x 162
DISPLACEMENT	12.9 LITERS
DRY WEIGHT	2,600 LBS.
OIL SYSTEM CAPACITY	42 U.S. QUARTS
HORSEPOWER	380-500 HP
PEAK TORQUE	1,450-1,850 LB.-FT.
GOVERNED SPEED	2,200 RPM
CLUTCH ENGAGEMENT TORQUE†	973 LB.-FT. @ 800 RPM
B10 DESIGN LIFE	1,000,000 MILES/ 1,600,000 KM
BASE WARRANTY‡	2 YEARS/250,000 MILES/400,000 KM

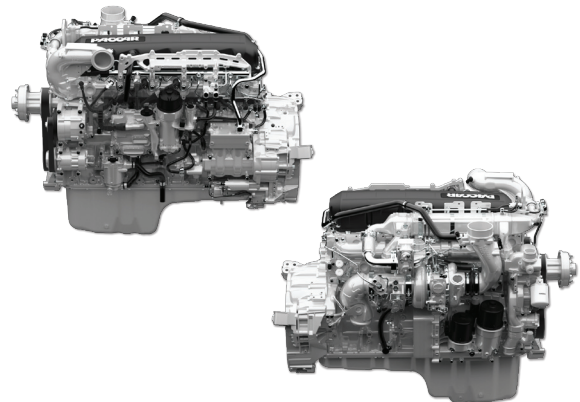
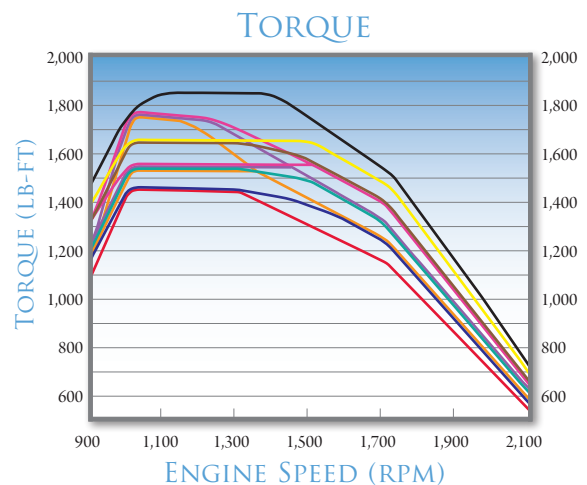
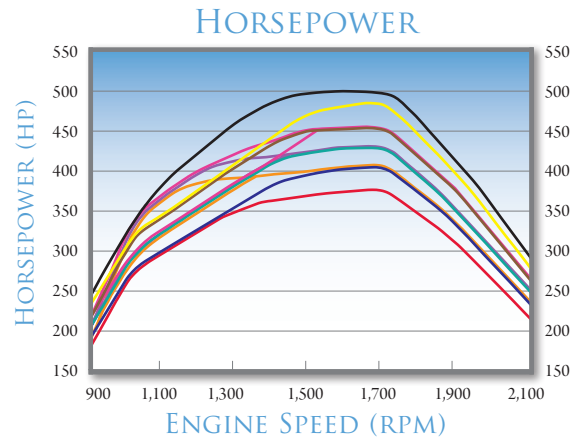
†Determined By Engine Horsepower And Idle Setting

‡Extended Protection Plans Available

### MAINTENANCE INTERVALS

MAINTENANCE ITEM	MILES	KILOMETERS	
OIL AND FILTER - SEVERE\ VOCATIONAL DUTY	25,000	40,000	
	- NORMAL\ LINE HAUL > 20% IDLE TIME	40,000	64,000
	- NORMAL\ LINE HAUL < 20% IDLE TIME	60,000	96,000
FUEL FILTER - SEVERE\ VOCATIONAL DUTY	25,000	40,000	
	- NORMAL\ LINE HAUL	60,000	96,000
COOLANT FILTER - SEVERE\ VOCATIONAL DUTY	160,000	256,000	
	- NORMAL\ LINE HAUL	180,000	288,000
DEF FILTER	300,000	480,000	

Note: Equipment and specifications shown in this brochure are subject to change without notice. Consult with your PACCAR Engine dealer at time of ordering for standard and optional equipment. PACCAR MX, MX and MX-13 are trademarks of PACCAR Inc



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(P0016 to P060C)

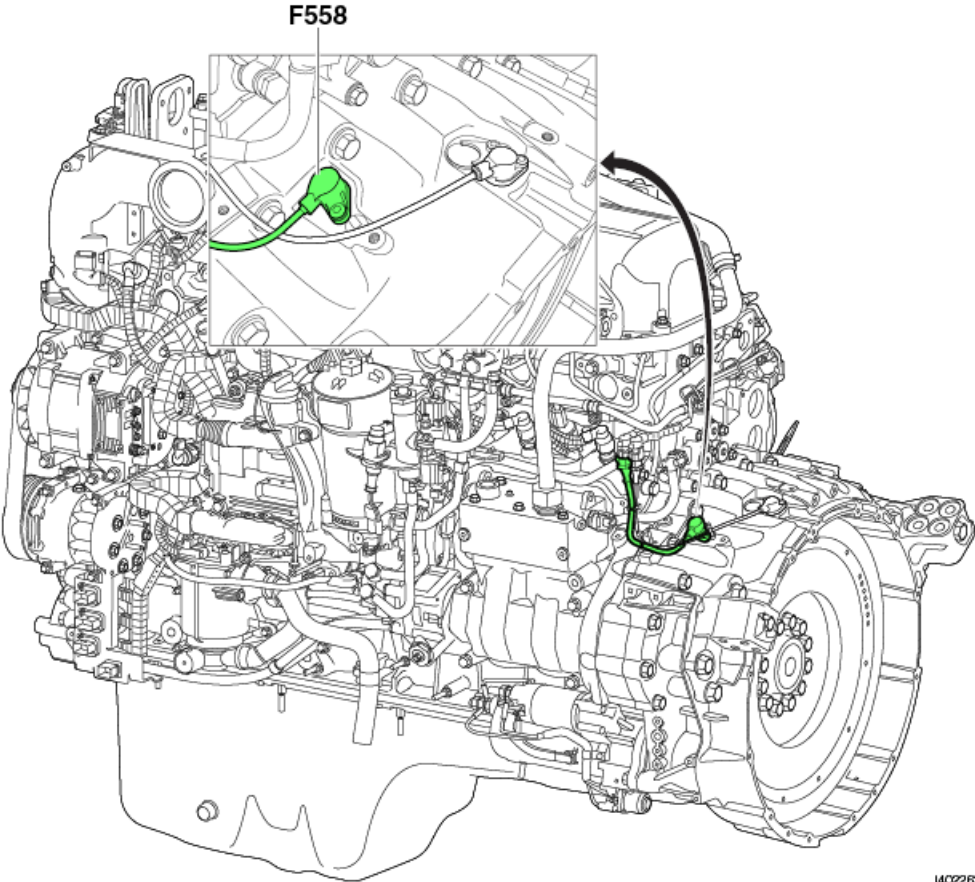
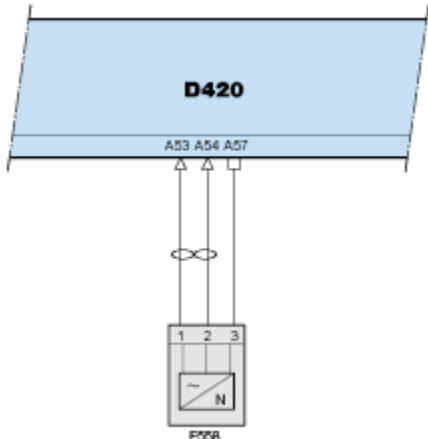


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## P0016

<b>Code number</b>	P0016
<b>Fault code description</b>	Camshaft speed signal - Not corresponding with engine position
<b>Fault code information</b>	1 trip MIL 3 drive cycle recovery Readiness group – None Freeze frame type - Fuel
<b>Description of component(s)</b>	<div data-bbox="511 556 1477 1627" data-label="Image"> </div> <p data-bbox="1437 1617 1485 1638">1402245</p> <p data-bbox="487 1711 738 1743"><b>Effect on the system</b></p> <ul data-bbox="487 1753 1364 1890" style="list-style-type: none"> <li>• Cylinder detection</li> <li>• Synchronization during starting (together with crankshaft signal)</li> <li>• Monitors correct alignment between the crankshaft and the camshaft</li> <li>• Back up for the crankshaft signal (F552)</li> </ul>

<p><b>Location of component(s)</b></p>	 <p style="text-align: center;"><b>F558</b></p> <p style="text-align: right;">1402262</p>
<p><b>Diagnostic condition</b></p>	<p>This diagnostic runs during starting, when the engine speed is above 400 rpm.</p>
<p><b>Set condition of fault code</b></p>	<p>The PCI ECU (D420) detects that the camshaft sensor (F558) signal does not correspond to the crankshaft sensor (F552) signal (engine position) after some engine revolutions.</p>
<p><b>Reset condition of fault code</b></p>	<p>This DTC changes to inactive when the fault is no longer detected.</p>
<p><b>Electrical diagram(s)</b></p>	 <p style="text-align: center;"><b>D420</b></p> <p style="text-align: center;">A53 A54 A57</p> <p style="text-align: center;">1 2 3</p> <p style="text-align: center;">N</p> <p style="text-align: center;">F558</p> <p style="text-align: right;">1401882</p>

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