



Valve Lash & Cam Timing Specifications for 1988-2007 Detroit Diesel 60-Series Diesel Engines

The AERA Technical Committee offers the following information on valve lash & cam timing specifications for 1988-2007 Detroit Diesel 60-Series diesel engines.

Camshaft timing, valve lash, injector height, and Jake Brake® lash are all very important specifications that must be followed closely in order to optimize the performance and service life of any Detroit Diesel engine. Reference the following chart that brings together essential information for servicing the Series 60 diesel engines.

Most of the models listed in the attached charts are on-highway applications, but there are a few listed for off-highway. The attached camshaft timing charts should prove very helpful when servicing these engines.

Note: If the valve cover option label is missing, illegible or incorrect you will need to check to see what camshaft is in the engine. To determine the camshaft that is used in the engine check the part number stamped on the rear face of the camshaft. If that is not available request the Detroit Diesel Service Network (dealer) to enter the engine serial number. Their electronic network will retrieve the model number which will provide the correct injector and valve adjustments.



SERIES 60 DIESEL VALVE LASH, JAKE BRAKE LASH AND CAM TIMING SPECS

Model	Engine	Year	DDEC	Camshaft/Assembly Part Number	Injector Height mm (inches)	Intake Valve Lash mm (inches)	Exhaust Valve Lash mm (inches)	Jake Brake Model	Jake Brake Lash mm (inches)	Cam Timing Range mm (inches)
WU	11.1	88-89	II	8929484 / 485	78.2 (3.079)	0.203 (0.008)	0.508 (0.020)	760A	0.660 (0.026)	4.39-5.46 (0.173 -0.215)
WU	11.1	90-93	II	8929484 / 485	78.2 (3.079)	0.203 (0.008)	0.660 (0.026)	760A	0.660 (0.026)	4.39-5.46 (0.173 -0.215)
SK	11.1	94-97	III	23518717 / 718 23524899 / 900	78.8 (3.102)	0.203 (0.008)	0.660 (0.026)	760A	0.660 (0.026)	4.95-6.53 (0.195 -0.257)
WK	11.1	94-97	III	23513563 / 562 23524897 / 898	78.8 (3.102)	0.203 (0.008)	0.660 (0.026)	760A	0.660 (0.026)	4.95-6.53 (0.195 -0.257)
EK	11.1	1998	IV	23522199 / 200 23524903 / 904	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	760B	0.584 (0.023)	5.46-6.71 (0.215 -0.264)
LK	11.1	1999	IV	23524654 / 655 23524913 / 914	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	760B	0.584 (0.023)	5.21-6.27 (0.205 -0.247)
GU	12.7	88-89	II	89229472 / 473	78.2 (3.079)	0.203 (0.008)	0.508 (0.020)	760A	0.660 (0.026)	4.39-5.46 (0.173 -0.215)
GU *	12.7	90-93	II	23505194 / 195	78.2 (3.079)	0.203 (0.008)	0.660 (0.026)	765	0.660 (0.026)	4.39-5.46 (0.173 -0.215)
GK	12.7	94-97	III	23513565 / 564 23524905 / 906	78.8 (3.102)	0.203 (0.008)	0.660 (0.026)	765	0.660 (0.026)	4.95-6.53 (0.195 -0.257)
GK	12.7	1998	III	23521680 / 681 23524907 / 908	80.3 (3.161)	0.203 (0.008)	0.660 (0.026)	765	0.660 (0.026)	5.36-6.76 (0.211 -0.266)
PK,TK	12.7	1998	IV	23521680 / 681 23524907 / 908	80.3 (3.161)	0.203 (0.008)	0.660 (0.026)	765A	0.584 (0.023)	5.36-6.76 (0.211 -0.266)
MK,BK	12.7	1999	IV	23524291 / 292 23524911 / 912	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	770	0.584 (0.023)	5.03-6.10 (0.198 -0.240)
MK,BK **	12.7	2000	IV	23524291 / 292 23524911 / 912	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	790	0.660 (0.026)	5.03-6.10 (0.198 -0.240)
MK,BK	12.7	2000-02	IV	23528308 / 309	82.1 (3.230)	0.203 (0.008)	0.660 (0.026)	795	0.813 (0.032)	6.527-7.594 (0.257 -0.299)
MK	12.7	2002	IV	23528605 / 606	82.1 (3.230)	0.203 (0.008)	0.660 (0.026)	797	0.508 (0.020)	5.893-6.960 (0.232 -0.274)
MK_E	12.7	2002-03	IV	23531130	82.1 (3.230)	0.203 (0.008)	0.508 (0.020)	797	0.508 (0.020)	6.452-7.214 (0.254 -0.284)
MV_E	12.7	2004-06	V	23533694	***See Service Manual	0.203 (0.008)	0.508 (0.020)	797	0.508 (0.020)	6.655-7.214 (0.262 -0.284)
Daewoo TK8K	12.7	2000-04	IV	23523982 / 983 23524917 / 918	80.3 (3.161)	0.203 (0.008)	0.660 (0.026)	797A	0.508 (0.020)	5.11-6.17 (0.201 -0.243)
Marine-TK	12.7	Vary	IV	23525525 / 526	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	N/A	N/A	6.17-6.78 (0.243 -0.267)
HK	14.0	1999	IV	23524291 / 292 23524911 / 912	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	770	0.584 (0.023)	5.03-6.10 (0.198 -0.240)
HK	14.0	2000	IV	23524291 / 292 23524911 / 912	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	790A	0.660 (0.026)	5.03-6.10 (0.198 -0.240)
HK	14.0	2000-02	IV	23528308 / 309	82.1 (3.230)	0.203 (0.008)	0.660 (0.026)	795	0.813 (0.032)	6.527-7.594 (0.257 -0.299)
HK_E	14.0	2002-03	IV	23531130	82.1 (3.230)	0.203 (0.008)	0.508 (0.020)	797	0.508 (0.020)	6.452-7.214 (0.254 -0.284)
HV_E	14.0	2004-06	V	23533694	***See Service Manual	0.203 (0.008)	0.508 (0.020)	797	0.508 (0.020)	6.655-7.214 (0.262 -0.284)
HK82	14.0	2000	IV	23524911 / 912	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	790C	0.660 (0.026)	5.03-6.10 (0.198 -0.240)
HK82	14.0	2000-03	IV	23528308 / 309	82.1 (3.230)	0.203 (0.008)	0.660 (0.026)	795	0.813 (0.032)	6.527-7.594 (0.257 -0.299)
HK82	14.0	2004-06	IV	23528308 / 309	82.1 (3.230)	0.203 (0.008)	0.508 (0.020)	797A	0.508 (0.020)	6.527-7.594 (0.257 -0.299)
Marine-HK	14.0	Vary	IV	23529007 / 008	81.0 (3.189)	0.203 (0.008)	0.660 (0.026)	N/A	N/A	6.12-7.19 (0.241 -0.283)
HG_E	14.0	2007	VI	23535545 / 153J	****See Service Manual	0.230 (0.008)	0.508 (0.020)	797B	0.508 (0.020)	6.17-6.73 (0.243 -0.265)

*GU40 is equipped with a Model 760A Jake Brake. Use 760A lash specs when servicing

**MK and BK models with 0712 Valve Mech are equipped with a Model 770 Jake Brake. Use 770 lash specifications when servicing.

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