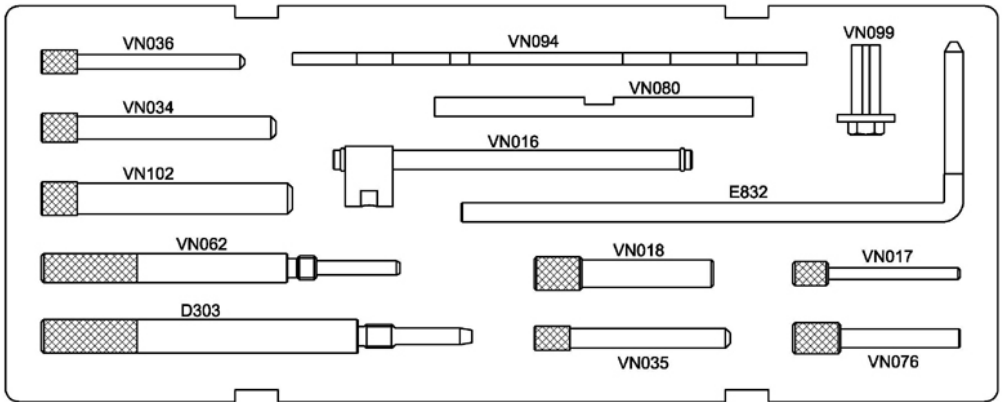


# **Beta** **1461/C8G**



**EN** INSTRUCTIONS FOR USE



# INSTRUCTIONS FOR USE

EN

## TIMING KIT FOR FORD & MAZDA DIESEL ENGINES

### PARTS:

Beta item number	OEM item number	Description
VN036	23-019	Injection pump timing pin
VN035	21-123	Camshaft timing pin
VN034	23-029	Injection pump timing pin
VN80 + VN99	21-168 / 303-393 / 303-1272	- Flywheel locking plate, 8 mm thick
		- Flywheel lock tooth, Ford 1.6TI-VCT
VN016	0188-J2	Tensioning device
VN062		Driving shaft timing pin
VN018	21-262 / 303-734 /49JE02020	Flywheel locking pin
VN017	21-260 / 303-732 /49JE02018	Driving shaft / high-pressure fuel pump alignment pin
VN076	303-735 / 21-263 303-1277/49JE02021	Camshaft pinion locking pin
E832	303-1059 / 303-1270	Flywheel timing pin
VN102	23-020	Flywheel timing pin
D303	21-104 / 303-193	Driving shaft timing pin
VN094	21-162B / 303-376 / 303-367 / 303-376B	Camshaft locking bar

### APPLICATION

Brand	Engine	Engine code
Ford	1,4D TDCi	F6JA, F6JB, F6JC, F6JD
	1,5D TDCi	UGJC
	1,6D TDCi	TZJA, TZJB, G8DA,G8DB, HHDA, HHDB,HHJA, HHJC, HHJD, HHJE, HHJF
	1,8D	RTA, RTB, RTC, RTD, RTG, RTE, RTF, RTH, RTJ, RTK
	1,8D TCI	RFN
	1,8D TDdi	BHPA, HCPA, HCPB, KKDA, P7PA, P9PA, P9PB, R2PA, R3PA, RWPA, RWPC,F9DA/B
	1,8D TDCi	FFBA, FFWA, KHBA, QYBA, QYWA
Mazda	1,8D TDCi	KKDB
	1,8D Turbo	C9DC
	1,8D Turbo	RVA
	2,0D TDCi	G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, UFDB, TXDB, TYDA, UKDB, QXBA, AZBA, KLBA, QXBB, LPBA, AZBC, TYBA, UKBA, UFBA, TXBA, IXDA, QXWA, QXWB, AZWA, KLWA, AZWC, TYWA,UKWA, TXWA, UFWA, UFDA,TXDA, UKDA
	2,0D TDCi	Q4BA, KNBA
	2,5D	4BA, 4BB, 4BC 4CC, 4FA, 4CA, 4CB, 4DA, 4EA 4FA, 4FB, 4FC, 4FD, 4GA, 4HB, 4HC
	2,5D Turbo	4EB, 4EC, 4ED 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HD
	1,4D TDCi	F6JA, F6JB
	1,6D 8V	MZ-CD 1.6
	1,6D 16V	Y6

Engine code	OEM item number						
	23-019	21-123	23-029	21-168 / 303-393 / 303-1272	0188-J2	21-262 / 303-734 / 49JE02020	21-260 / 303-732 / 49JE02018
F6JA, F6JB, F6JC, F6JD					•	•	•
TZJA, TZJB				•	•		•
G8DA, G8DB, HHDA, HHDB, HHJA, HHJC, HHJD, HHJE, HHJF						•	•
RTA, RTB, RTC, RTD, RTG, RTE, RTF, RTH, RTJ, RTK		•			•		
RFN			•				
BHPA, HCPA, HCPB, KKDA, P7PA, P9PA, P9PB, R2PA, R3PA, RWPA, RWPC, F9DA/B				•			
FFBA, FFWA, KHBA, QYBA, QYWA				•			
KKDB				•			
C9DC				•			
RVA	•						
G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, UFDB, TXDB, TYDA, UKDB, QXBA, AZBA, KLBA, QXBB, LPBA, AZBC, TYBA, UKBA, UFBA, TXBA, IXDA, QXWA, QXWB, AZWA, KLWA, AZWC, TYWA, UKWA, TXWA, UFWA, UFDA, TXDA, UKDA				•			
Q4BA, KNBA				•			
4BA, 4BB, 4BC 4CC, 4FA, 4CA, 4CB, 4DA, 4EA 4FA, 4FB, 4FC, 4FD, 4GA, 4HB, 4HC	•	•					
4EB, 4EC, 4ED 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HD	•	•	•				
F6JA, F6JB						•	•
MZ-CD 1.6						•	•
Y6						•	•
UGJC						•	•

Engine code	OEM item number				
	303-735 / 21-263 / 303-1277 / 49JE02021	303-1059 / 303-1270	23-020	21-104 / 303-193	21-162B / 303-376 / 303-367 / 303-376B
F6JA, F6JB, F6JC, F6JD	•				
TZJA, TZJB	•				
G8DA, G8DB, HHDA, HHDB, HHJA, HHJC, HHJD, HHJE, HHJF	•				
RTA, RTB, RTC, RTD, RTG, RTE, RTF, RTH, RTJ, RTK				•	
RFN				•	•
BHPA, HCPA, HCPB, KKDA, P7PA, P9PA, P9PB, R2PA, R3PA, RWPA, RWPC, F9DA/B				•	•
FFBA, FFWA, KHBA, QYBA, QYWA				•	•
KKDB				•	•
C9DC				•	•
RVA				•	•
G6DA, G6DB, G6DC, G6DD, G6DE, G6DF, G6DG, UFDB, TXDB, TYDA, UKDB, QXBA, AZBA, KLBA, QXBB, LPBA, AZBC, TYBA, UKBA, UFBA, TXBA, IXDA, QXWA, QXWB, AZWA, KLWA, AZWC, TYWA, UKWA, TXWA, UFWA, UFDA, TXDA, UKDA	•	•			
Q4BA, KNBA	•	•			
4BA, 4BB, 4BC 4CC, 4FA, 4CA, 4CB, 4DA, 4EA 4FA, 4FB, 4FC, 4FD, 4GA, 4HB, 4HC			•		
4EB, 4EC, 4ED 4GA, 4GB, 4GC, 4GD, 4GE, 4GF, 4HA, 4HD			•		
F6JA, F6JB	•				
F6JA, F6JB	•				
Y6	•				
UGJC	•				

### **Safety Precautions - Please read**

- Disconnect the battery earth leads (check radio code is available)
- Remove spark or glow plugs to make the engine turn easier
- Do not use cleaning fluids on belts, sprockets or rollers
- Always make a note of the route of the auxiliary drive belt before removal
- Turn the engine in the normal direction (clockwise unless stated otherwise)
- Do not turn the camshaft, crankshaft or diesel injection pump once the timing chain has been removed (unless specifically stated)
- Do not use the timing chain to lock the engine when slackening or tightening crankshaft pulley bolts
- Do not turn the crankshaft or camshaft when the timing belt/chain has been removed
- Mark the direction of the chain before removing
- It is always recommended to turn the engine slowly, by hand and to re-check the camshaft and crankshaft timing positions.
- Crankshafts and Camshafts may only be turned with the chain drive mechanism fully installed.
- Do not turn crankshaft via camshaft or other gears
- Check the diesel injection pump timing after replacing the chain
- Observe all tightening torques
- Always refer to the vehicle manufacturer's service manual or a suitable proprietary instruction book
- Incorrect or out of phase engine timing can result in damage to the valves
- It is always recommended to turn the engine slowly, by hand, and to re-check the camshaft and crankshaft timing positions