

Falcon, Fairlane, F100, 302-351 1964-84 * See Fitting Notes*

Hydraulic Lifter Camshafts								
PART NO.	VALVE TIMING	DUR	.050" DUR.	L/C	VALVE LIFT	POWER RANGE	PART KIT	COMMENTS
21000	IN. 25/70 EX.65/19	275 264	191 191	114	.405" .400"	900 3500	K2102	Standard replacement cam.
21613	IN. 16/58 EX.65/19	254 264	194 202	112	.441" .470"	1000 3800	K2102	High torque fuel efficient cam with smooth idle.
21771 ^{1,2}	IN. 18/60 EX.66/24	258 262	200 205	111	.460" .470"	1200 4200	K2102	Torque/Economy cam for towing and LPG vehicles.
21602 ^{1,2}	IN. 26/64 EX.66/24	270 270	208 208	110	.484" .484"	1500 4400	K2102	Mild street cam with smooth idle and good low end torque.
21666 ^{1,2}	IN. 25/65 EX.74/26	270 280	204 214	112	.484" .510"	1600 4600	K2102	Dual pattern economy/performance cam for stock to mild engines.
21603 ^{1,2}	IN. 32/68 EX.72/28	280 280	214 214	110	.510" .510"	2000 5000	K2102	Mild street cam for street engines with improved carburation and extractors.
21665 ^{1,2}	IN. 30/70 EX.79/31	280 290	214 224	112	.507" .536"	2200 5500	K2104 ³	Mild idle with strong mid range suits modified street engines.
21686 ^{1,2}	IN. 33/67 EX.69/31	280 280	224 224	108	.502" .502"	2500 5700	K2103	Fair idle requires only minor engine modifications.
21689 ^{1,2}	IN. 32/68 EX.75/35	280 289	222 230	109	.512" .519"	2600 5700	K2103	Fair idle requires only minor engine modifications.
211367 ⁵	IN. 33/73 EX.78/35	286 293	224 234	112	.535" .560"	2700 5900	K2104 ³	Popular hot street cam which delivers strong strip performance.
21649 ⁵	IN. 34/68 EX.77/39	282 295	234 244	108	.525" .525"	3000 6000	K2104 ³	Lumpy idle, high performance cam for highly modified engines.
21700 ⁵	IN. 45/79 EX.87/49	304 316	242 250	108	.570" .570"	3500 6500	K2104 ³	Rough idle for street/race applications with 3.5:1 or lower diff.
21648 ⁵	IN. 52/86 EX.91/53	318 323	248 252	108	.567" .584"	3800 6800	K2104 ³	Maximum performance street/race hydraulic cam. Rough idle , needs low gears.
21900	Custom ground billet, Hydraulic profile using selected master.							
21901	Custom ground billet, Hydraulic profile using 2 master or modified lobe centre.							

Solid Lifter Camshafts								
PART NO.	VALVE TIMING	DUR	.050" DUR.	L/C	VALVE LIFT	POWER RANGE	PART KIT	COMMENTS
21626 ⁵	IN. 30/68 EX.72/30	278 282	238 244	109	.560" .570"	3000 6000	K2105 ³	Medium idle, strong mid range power, for well prepared street engines.
21806 ⁵	IN. 42/76 EX.81/43	298 304	248 255	108	.564" .585"	3500 6500	K2106 ³	High performance solid lifter cam for street/race applications.
21731 ⁵	IN. 43/77 EX.81/44	300 305	253 260	108	.612" .625"	4000 7200	K2106 ³	Max. performance solid lifter cam. Race only use. Full race valve train must be used.
21900	Custom ground billet, Solid profile using selected master.							
21901	Custom ground billet, Solid profile using 2 masters or modified lobe centres.							

FITTING NOTES.

- * Performance springs and retainers **MUST** be used on all Cleveland engines fitted with modified camshafts.
- * The use of high volume oil pumps in these engines may cause premature wear of the distributor gear.
- * Converter stall speed should be equal to or greater than the minimum rpm of the cam power range.

1. Must use performance springs
2. Must use performance retainers
3. Machining required to fit these components
4. Must use performance seal
5. Notes 1 to 4 all apply to this part number

FORD CLEVELAND continued

Roller Lifter Camshafts, Solid or Hydraulic

PART NO.	DESCRIPTION
21950	Roller cam custom ground on hardened steel billet.

Performance Matched Valve Train Kits

KIT NO.	VALVE LIFTER	VALVE SPRING	S P R I N G RETAINER	VALVE COLLETS	VALVE SEALS	PUSH RODS	TIMING SET	COMMENTS
K2102	HT900	7738	12701 ⁸	11702 ⁸	HR229	PR-414 ⁶	CS8351C	Suit mild cams.
K2103	HT900R	7738	12700 ⁸	11702 ⁸	HR229	PR-950 ⁶	CS8351C	Suit hot cams to .540" lift.
K2104 ³	HT900R	7333 ³	12700 ⁸	11705 ⁸	S2 ³	PR-950 ⁶	CS8351C	Suit hot cams to .650" lift.
K2105 ³	AT2000	7333 ³	12700 ⁸	11705 ⁸	S2 ³	PR-978 ⁶	CS8351C	Suit hot solid cams to .650"
K2106 ³	AT2000	7331 ³	13101 ⁸	11101	S2 ³	PR-978 ⁶	CS8351C	Suit solid race to .740".
K2109 ³	5300	9950 ³	13102	11101	S2 ³	PR-955 ⁶	CS8351C	Roller lifter kit to .740" lift.

Performance Valve Train Components

PART NO.	DESCRIPTION	PART NO.	DESCRIPTION
PR-309	Standard replacement pushrod	CS8351C	Multi Keyway, Roller Timing Set
PR-414	Hardened Pushrod std length	HT900-16	Hydraulic Lifter
PR-950	Super Duty Pushrod 0.080" Wall. Std length	HT900R-16	Anti Pump Up Hydraulic Lifter
PR-955	Super Duty Pushrod + 0.100"	AT2000-16	Solid Lifter
PR-978	Super Duty Pushrod + 0.150"	AT2000L-16	Solid Lifter with positive lubrication
PR5840	Standard length 5/16" race pushrod	5300	Roller Lifter Set, Mechanical
PR5845	+0.050" race pushrod	11702	Hardened Multi Groove Collets
PR5850	+0.100" 5/16" race pushrod	11701 ²	Hardened Single Groove Collets
PR8840	Standard length 3/8" race pushrod	4133 ²	Forged single Groove Collets Std Height
PR8850	+0.100" 3/8" race pushrod	4134 ²	Forged single Groove Collets +0.050"
PR8855	+0.150" 3/8" race pushrod		
GP351	Stepped Guideplate Suit 5/16" Pushrods	11101-16	10 degree Single Groove Collets Std Height
S2-SD8	Positive valve stem seals	11150-16	10 degree Single Groove Collets + 0.050"
CCG351 4V	4V Cam Change Gasket Set	34301	Valve Lash Cap

Spring Retainer and Lock Details

VALVE STEM	SPRING HEIGHT	RETAINER	HARD LOCKS	RACE LOCKS ⁹
4 Groove	Standard, 1.820"	12700	11702	
4 Groove	+0.100" 1.920"	12710	11702	
Single Groove	Standard 1.820"	11700	11701	4133
Single Groove	+0.050" 1.870"	11700		4134
Single Groove	+0.100" 1.920"	11710	11701	4133
Single groove 10 deg.	+0.100" 1.920"	13101 (1.437"dia.spring) 13102 (1.550"dia.spring)		11101
Single groove 10 deg.	+0.190" 2.110"	13101 (1.437"dia.spring) 13102 (1.550"dia.spring)		11150

FITTING NOTES

1. Must use performance springs
2. Must use performance retainers
3. Machining required to fit these components
4. Must use performance seal
6. Check valve train geometry before ordering p,rod
8. Check table before ordering retainers and locks.
9. Machined or Forged Locks

VALVE SPRING SPECIFICATIONS

Ford Cleveland <i>NB. Step to be M/C off head for double springs</i>							
PART NO.	INSTALLED HEIGHT	INSTALLED PRESSURE	PRESSURE @.5 LIFT	MAX. LIFT	SOLID HEIGHT	SPRING RETAINER	VALVE LOCKS
7737 ²	1.820"	110	270	.530"	1.240"	12702 ⁷	11702 ⁷
7738 ²	1.820"	110	280	.640"	1.140"	12702 ⁷	11702 ⁷
7328 ⁵	1.820"	110	250	.830"	0.950"	11700	4133
7333 ⁵	1.820"	125	290	.650"	1.100"	11700	4133
7437 ⁵	1.820"	140	330	.680"	1.100"	13102	11101
7331 ⁵	1.920"	130	290	.750"	1.100"	13101	11101
9950 ⁵	1.920"	190	430	.725"	1.130"	13102	11101
9946 ⁵	1.920"	240	515	.700"	1.170"	13102	11101