

NHRA Technical Specifications

For 1966 Ford Motors

BORE	STROKE	DISPLACEMENT	CYLINDERS	ROD LENGTH
3.500	2.940	170	6	4.715
3.684	3.126	200	6	4.715
4.000	3.180	240	6	6.795
4.000	2.870	289	8	5.155
4.002	3.500	352	8	6.540
4.052	3.784	390	8	6.488
4.232	3.784	427	8	6.488
4.132	3.984	428	8	6.488

Issued: 1 April 1966
 Revised: 8-6-76, 4-13-89, 5-22-89, 3-29-91, 11-26-93, 1-24-94, 6-23-94, 10-16-94, 12-07-94, 9-5-95, 1-1-96, 9-7-96, 4-20-98, 8-31-98, 4-7-06 WR, 2-12-2020, 3-31-2020

H.P.	Disp.	C.R.	Ind.	Make	Model/Transmission	Manifold	R.R.	Lifter	Head	cc	Notes
Ford											
150	240	8.72	1-1	Ford	C6AF-R/SM S/AUTO	C5AE-J	1.61	H	66.00		1
200	289	8.80	1-2	Ford	C6AF-A/SM B/AUTO	C60E-A	1.60	H	51.99		2
250	352	8.90	1-4	Ford	C6AF-L/AUTO ONLY	C6AE-C	1.73	H	73.10		4
275	390	8.90	1-2	Ford	C60F-C or C6MF-A/AUTO ONLY	C6AE-C	1.73	H	70.10		5
315	390	9.70	1-4	Ford	C6AF-E/SM F/AUTO	C6AE-D	1.73	H	68.00		3
345	428	9.70	1-4	Ford	C6AF-G/SM H/AUTO	C6AE-D	1.73	H	68.00		3
360	428	9.70	1-4	Ford	C6AF-J/SM K/AUTO	C6AE-D	1.76	M	68.00		4
410	427	12.00	1-4	Holl	C4AB-BT or C5AF-BV(3255)	C6AE-K, C6AE-J C5AE-AA, C7AE-F	1.76	M	66.00		7
425	427	12.00	2-4	Holl	C5AF-BC & BD or BU & BT	No Casting #	1.76	M	66.00		8
Fairlane											
120	200	8.75	1-1	Ford	C50F-Y/SM Z/AUTO	Integral	1.50	H	48.32		
200	289	8.80	1-2	Ford	C6AF-A/SM B/AUTO	C60E-A	1.60	H	51.99		2
265	390	8.90	1-2	Ford	C60F-B/AUTO ONLY	C6AE-C	1.73	H	70.10		5
275	390	8.90	1-2	Ford	C60F-C or C6MF-A/AUTO ONLY	C6AE-C	1.73	H	70.10		5
315	390	9.70	1-4	Ford	C6AF-E/SM F/AUTO	C6AE-D	1.73	H	68.00		3
335	390	10.10	1-4	Holl	C60F-M(3530)/SM N(3557)/AUTO	C6AE-D, C6AE-H	1.73	H	63.60		9,10,11
410	427	12.00	1-4	Holl	C4AB-BT or C5AF-BV(3255)	C6AE-K, C6AE-J C5AE-AA, C7AE-F	1.76	M	66.00		7
425	427	12.00	2-4	Holl	C5AF-BC & BD or BU & BT	No Casting #	1.76	M	66.00		8
Mustang											
120	200	8.75	1-1	Ford	C50F-Y/SM Z/AUTO	Integral	1.50	H	48.32		
200	289	8.80	1-2	Ford	C6AF-A/SM B/AUTO	C60E-A	1.60	H	51.99		2
225	289	9.22	1-4	Ford	C6AF-M/SM N/AUTO	C60E-B	1.60	H	47.70		3
271	289	11.60	1-4	Ford	C6ZF-C/SM F/AUTO	C60E-B	1.60	M	47.70		6
Thunderbird											
315	390	9.70	1-4	Ford	C6AF-E/SM F/AUTO	C6AE-D	1.73	H	68.00		3
345	428	9.70	1-4	Ford	C6AF-G/SM H/AUTO	C6AE-D	1.73	H	68.00		
Falcon											
105	170	8.74	1-1	Ford	C5DF-L/SM M/AUTO	Integral	1.50	H	48.32		
120	200	8.75	1-1	Ford	C50F-Y/SM Z/AUTO	Integral	1.50	H	48.32		
200	289	8.80	1-2	Ford	C6AF-A/SM B/AUTO	C60E-A	1.60	H	51.99		2

Comet

120	200	8.75	1-1	Ford C50F-Y/SM	Z/AUTO	Integral	1.50	H	48.32	
200	289	8.80	1-2	Ford C6AF-A/SM	B/AUTO	C60E-A	1.60	H	51.99	2
265	390	8.90	1-2	Ford C60F-B/AUTO ONLY		C6AE-C	1.73	H	70.10	5
275	390	8.90	1-2	Ford C60F-C or C6MF-A/AUTO ONLY		C6AE-C	1.73	H	70.10	5
335	390	10.10	1-4	Holl C60F-M(3530)/SM N(3557)/AUTO		C6AE-D, C6AE-H	1.73	H	63.60	9,10,11

Mercury

265	390	8.90	1-2	Ford C60F-B/AUTO ONLY		C6AE-C	1.73	H	70.10	5
275	390	8.90	1-2	Ford C60F-C or C6MF-A/AUTO ONLY		C6AE-C	1.73	H	70.10	5
330	428									
345	428	9.70	1-4	Ford C6AF-G/SM	H/AUTO	C6AE-D	1.73	H	68.00	

Carb Sizes:

1	Carb sizes - 1690/1290
2	Carb sizes - 1437/1145
3	Carb sizes - 1437x1437/1080x1189
4	Carb sizes - 1562x1562/1125x1189
5	Carb sizes - 1687/1330
6	Carb sizes - 1562x1562/1125x1189
7	Carb sizes - 1686x1686/1375x1437
8	Carb sizes - BC (3301) & BD (3300) -1686x1686/1313x1375 BU (3410) & BT (3411) -1686x1686/1375x1437
9	Carb sizes - 1562x1562/1250x1313
10	C6AE-H (Alum) C6AE-D (Cast Iron)
11	Alt carbs - Holley C5AF-BD (3300) 1686x1686/1313x1375, C9AZ-U, C9AF-U (4609) 1686x1686/1375x1437

H.P.	Disp.	Deck Cl.	Piston Vol	Valves	Cam Lift	Springs	Gasket
105	170	.025 Flat		1649/1388	348/348	Outer Only	.020
120	200	.012 Dish .105		1649/1388	368/368	Outer Only	.020
150	240	.018 Dish .063		1787/1566	376/400	Outer Only	.020
200	289	.0015 Dish .065		1783/1457	368/380	Outer Only	.044
225	289	.0015 Flat w/notches		1783/1457	368/380	Outer Only	.044
250	352	.034 Flat w/notches		2037/1566	408/408	Outer Only	.040
265	390	.0005 Dish .170		2037/1566	438/438	Outer Only	.040
271	289	.0015 Flat w/notches		1783/1457	478/478	Outer w Damp	.028
275	390	.0005 Dish .170		2037/1566	438/438	Outer Only	.040
315	390	.0005 Flat w/notches		2037/1566	438/438	Outer Only	.040
335	390	.0005 Flat w/notches		2037/1566	481/490	Outer w Damper	.015
345	428	.005 Dish .120		2037/1566	438/438	Outer Only	.040
360	428	.005 Dish .120		2037/1566	516/516	Outer w Damper	.040
410	427	.010 Dome .305" 12.4 cc		2195/1733	525/525	Outer w Damper	.030
425	427	.010 Dome .305" 12.4 cc		2195/1733	525/525	Outer w Damper	.030

**** = Full cylinder head casting #'s**

170/105 = C6DE-C
 200/120 = C6DE-C
 240/150 = C6AE-C, C6AE-H
 289/200 = C6OE-M, C6OE-N
 289/225 = C6OE-M, C6OE-N
 352/250 = C6TE-G
 390/265 = C6AE-A, C6AE-J, C6AE-L
 289/271 = C5OE-A
 390/275 = C6AE-A, C6AE-J, C6AE-L
 390/315 = C6OE-A, C6OE-J, C6OE-L, C6AE-Y, C6AE-Z, C6OE-AE, C6OE-AF, C7AE-A, C7AE-B C7OE-E, C7OE-F
 390/335 = C6OE-R, C6AE-A, C6AE-J, C6AE-L, C6AE-R, C6AE-U, C6AE-Y
 428/330 =
 428/345 = C6AE-M, C6AE-A, C6AE-J, C6AE-L
 428/360 = C6AE-A, C6AE-J, C6AE-L
 427/410 = C5AE-F, C5AE-R, *SK-35369, *SK-31635
 427/425 = C5AE-F, C5AE-R, *SK-35369, *SK-31635

*- SK Heads legal in Super Stock Only