

Test Monitoring Center

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Sequence VG Information Letter 15-1 Sequence No. 43 July 1, 2015

ASTM consensus has not been obtained on this information letter. An appropriate ASTM ballot will be issued in order to achieve such consensus.

TO: Sequence VG Mailing List

SUBJECT: 1. Alternate Intake and Exhaust Valves

2. Alternate Water Pump

3. New Source for Wiring Harnesses

At the June 3, 2015 Sequence VG Surveillance Panel meeting, the panel agreed to the following changes to D6593:

- 1. Alternate Intake and Exhaust valves The original Ford Hardware is no longer available and aftermarket intake and exhaust valves can be obtained from another supplier. Table A5.1 has been revised to include these valves and identify the source of these valves. This change is effective June 3, 2015.
- 2. Alternate Water Pump Table A5.3 has been revised to include a MotorCraft part number. This water pump may be used for non-reference oil testing on or after June 3, 2015, provided that the laboratory has conducted a successful reference oil test utilizing this water pump.
- 3. New Source for Wiring Harnesses Section 7.10.9 and Table A5.6 have been revised to show an alternate harness. This wiring harness may be used for non-reference oil testing on or after June 3, 2015, provided that the laboratory has conducted a successful reference oil test utilizing this wiring harness.

Ron Romano

FCSD, Service Product Development, SEO

Ford Motor Company

Frank M. Farber

Director

ASTM Test Monitoring Center

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Attachment

c: ftp://ftp.astmtmc.cmu.edu/docs/gas/sequencev/procedure and ils/vgil15-1-43.pdf

Distribution: Email

7.10.9 Wiring Harness—There are two wiring harnesses used on the test stand, a dynamometer harness and an engine harness. Obtain the dynamometer wiring harness from the supplier listed in A9.2. The engine harness is listed in Table A5.6. With tests starting on or after June 3, 2015, a single wiring harness may be installed and used, provided an acceptable reference oil test has been obtained in the laboratory. The single harness is listed in Table A5.6.

TABLE A5.1 Engine Parts Kit

		IADL	L AJ. I	Engine Parts Kit	
		Part Nu	mber	_	
	Prefix	Base	Suffix	Description	Quantity
1	OG	804	AA	Engine Assembly	2
2	D8ZE	6A666	A2B	PCV Valve (EV-98)	4
3	E5TE	9601	AB	Air Filter Element	4
4	AGSF	32P	PF4	Spark Plug Assembly	32
5	F1AE	6065	BB	Bolt M11X1.5 21035 Hex	80
6	F1AE	6345	AD	Main Bolt	36
7	F1AE	6K258	AD	Main Bolt w/Stud Pickup	4
8	Q3U1L	6K109	AA	Oversize Piston, 0.125 mm	8
9	Q3U1L	6K109	AA	Oversize Piston Ring Set, 0.125 mm	8
10	Q3U1L	6K109	AA	Oversize Piston, 0.25 mm	8
11	Q3U1L	6K109	AA	Oversize Piston Ring Set, 0.25 mm	8
12	Q3U1L	6K109	AA	Oversize Piston, 0.375 mm	8
13	Q3U1L	6K109	AA	Oversize Piston Ring Set, 0.375 mm	8
14	Q3U1L	6K109	AA	Oversize Piston, 0.5 mm	8
15	Q3U1L	6K109	AA	Oversize Piston Ring Set, 0.5 mm	8
16	1W7E	6C315	AA	Crank Sensor Assembly	4
17	1W7E	6B288	AA	Cam Position Sensor	4
18	F65E	6251	B8A	Truck Camshaft-LH ^A	4
19	F65E	6C255	A8A	Truck Camshaft-RH ^A	4
20	YU1L	6622	AA	Screen and Cover Assembly	4
21	F6TE	6529	AB	Roller Follower	64
22	F65E	6C501	AA	Valve Tappet	64
23	F5AE	6507	AA	Intake Valve	24 or
	SB Interna	tional #01698		Intake Valve ^C	24
24	F1AE	6505	CC	Exhaust Valve	24 or
SB International #01699				Exhaust Valve ^C	24
25	F1AZ	6571	Α	Valve Seal ^C	48
26	F5AE	6268	AA	Timing Chain	8
27	F81E	6M269	AA	Timing Chain Tensioner – LH	4
28	F81E	6L266	AA	Timing Chain Tensioner – RH	4
29	F3AE	6K297	AA	Timing Chain Guide – LH	4
30	F3AE	6K297	BA	Timing Chain Guide – RH	4
31	1L2E	6L253	AA	Tensioner Arm – LH	4
32	1L2E	6L253	BA	Tensioner Arm – RH	4
33	XL3E	6306	BA	Crankshaft Sprocket	4
34	F9ZE	6333	AA	Main Crankshaft Bearing	20
35	F9ZE	6A338	AA	Main Crankshaft Bearing	16
36	F9ZE	6A339	AA	Thrust Bearing	4
37	F9ZE	6A341	AA	Thrust Washer	20
38	F9ZE	6211	AA	Connecting Rod Bearing Set	64
39	F8AE	6621	AA	Oil Pump Assembly	4

40		N806435	S	Oil Gallery Plug	8
41	VG	LT	01	Cylinder Head Assembly ^B	2
42	VG	FA3		Cam Bearing Set	8
43	F65E	6303	ВС	Crankshaft, or	1
44	2C5E	6303	B13A	Crankshaft	1

TABLE A5.3 Stand Setup Kit^A

		IAD	LL AJ.J	Stariu Setup Kit	
	Part Number				
	Prefix	Base	Suffix	Description	Quantity
1	F5AE	9R504	BD	Air Resonator Assembly	1
2	F3AE	12A166	BD	Ignition Bracket	1
3	F6AE	12257	EB	Ignition Mtg Bracket Assembly	1
4	F2AE	9600	BA	Air Cleaner Assembly	1
5	F6ZR	6375	AC	Flywheel	1
6	F4AE	9424	CA	Intake Manifold	1
7	F8KE	19A216	AD	Grooved Idler Pulley	1
8	F2AE	9A589	AA	Throttle Spacer	1
9	F7AE	6B209	AB	Belt Tensioner	1
10	F8AE	8501	AB	Water Pump Assembly	1
	or Motorcr	aft PW470		Water Pump Assembly	1
11	F6PE	6C275	AA	Adapter Plate Tensioner	2

^ALong term stand service items.

TABLE A5.6 Engine Finish Kit^A

TABLE A3:0 Linging I illish Kit					
		Part No	umber		
	Prefix	Base	Suffix	Description	Quantity
1	F5LU	12029	AA	Ignition Coil	2
2	F5AE	9F792	AC	Fuel Rail	1
3	F2AF	12A648	AA	ECT Sensor	1
4	F3PE	9E926	NB	Throttle Assembly	1
5	F8PE	12259	LA	Wire and Bracket Assembly	1
6	F8ZU	9E926	AD	Throttle Assembly	1
6	F2AB	12A522	AC	Engine Wire Harness	1
or FT-93 Ford Harness, 4.6 less EM connectors ^B			4.6 less	Single Wire Harness	1
7	E7EF	9F479	A2A	Map Sensor	1
8	F2VF	12B579	A2A	MAF Sensor	1
9	F5SF	12K072	AA	Ignition Module	1
1 0	F2RE	12297	ВА	Wire Separator	12

^ACamshafts to be polished by supplier in X2.1.11.

^BCylinder heads are obtained from supplier in X2.1.21 and are received assembled. Quantities listed are for an additional 3 builds.

^CObtain intake and exhaust valves from E&E Machine and Parts1602 S Flores St San Antonio, TX 78204

^A Long term engine service items; they can be used as long as they remain serviceable.
^B Obtain FT-93 Harness from: Ron Francis Wiring 200 Keystone Road, Suite #1 Chester PA 19013 800.292.1940