Telephone:

Fax:

VAT Registration No.:

Notes			Specified value	Measured value
Vehic	cle identification			
	No. of cylinders	Туре	4/OHC	
	Capacity	CC	1753	
	Compression ratio	:1	17,0	
	Fuel system	Make	Siemens	
Injec	tion system	*		
	Air metering	Туре	MAP / Mass	
	Fuel/injection pump assembly	Make	Siemens	
	Pump type		Common rail	
	Injection sequence		1-3-4-2	
	Engine coolant temperature (ECT) sensor	Ohm/℃	2900/80	
Tuniı	ng and emissions			
	Idle speed	rpm	850±25	
	Rated no load speed	rpm	4670-4930	
	Oil temperature	C	80	
	Idle speed - for smoke test	rpm	825-875	
	Governed speed range - for smoke test	rpm	4670-4930	
	Maximum time at governed speed	secs	1,0	
	Test mode	A/B	В	
	Probe type	1/2	1	
	Smoke opacity - EU limit	m-1 (%)	3,00 (73)	
	Smoke opacity - homologation value	m-1 (%)	2,50 (66)	
Start	ing and charging			
	Battery	V/RC(Ah)	12	
Servi	ce checks and adjustments	*		
	Valve clearance - INLET	mm	0,30-0,40 cold	
	Valve clearance - EXHAUST		0,45-0,55 cold	
	Oil pressure	bar/rpm	1,0/2000	
	Radiator cap	bar	1,3-1,5	
	Thermostat (primary/secondary) open	C	88-92	
Lubri	icants and capacities			
	e oil options			
	Ambient temperature range		All temperatures	
	Engine oil grade	SAE	5W/30 Synthetic	
	Engine oil classification		WSS-M2C913-C	
	Engine with filter(s)	litres	5,6	
Other	lubricants and capacities			
	Manual transmission oil grade	SAF	75W Synthetic	

Manufacturer: Ford
Engine code: KKDA
Tuned for:

Model: Focus ('04/'08) 1,8D TDCi

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	Manual transmission oil classification		WSS-M2C200-D2	
	Manual transmission	litres		
	Cooling system - total capacity	litres		
	Brake fluid		Super DOT 4	
	Power steering fluid		WSA-M2C 204-A	
iaht	ening torques	- 7/	1	
81	Cylinder head instructions			
	ler head			
ymic		Renew bolts	Yes	
ther	engine tightening torques	Tenew boits	103	
	Main bearings	Renew bolts/nuts	No	
	Main bearings	Stage 1		
	Main bearings		70 Nm+60°	
	Big end bearings	Renew bolts/nuts		
	Big end bearings	Stage 1		
	Big end bearings		60°+60°	
	Sump bolts	Otago 2	10 Nm	
	Sump drain bolt		36 Nm	
48	Flywheel/driveplate		35 Nm+45°	
10	Clutch pressure plate		29 Nm	
48	Crankshaft pulley/damper centre bolt		100 Nm+180°	
70	Camshaft sprocket/gear		50 Nm	
	Camshaft carrier/cap		20 Nm	
	Camshaft/rocker cover		5 Nm	
48	Inlet manifold to cylinder head		24 Nm	
82	Exhaust manifold to cylinder head		24 Nm	
02	Water pump		M6=10 Nm M8=23 Nm	
48	Injector/clamp		5 Nm+90°	
123	Injector pipe unions		25 Nm	
120	Fuel/injection pump sprocket/gear		33 Nm/42 Nm	
	Fuel/injection pump flange		45 Nm	
	Fuel/injection pump mounting		20 Nm	
	Glow plugs		15 Nm	
124	Crankshaft position (CKP) sensor/engine speed (RPM) sensor		6 Nm	
127	Camshaft position (CMP) sensor		6 Nm	
	Engine coolant temperature (ECT) sensor		20 Nm	
	Knock sensor (KS)		20 Nm	
	Engine oil pressure switch		20 Nm	
hass	is tightening torques		20 14111	
48	Front hub		45 Nm+90°	
70	Rear hub - wheel bearing housing bolts		55 Nm	
	Steering wheel		48 Nm	
	Steering rack/box mounting		90 Nm	
82	Steering track rod end		48 Nm	
02	Brake caliper to carrier	Front	28 Nm	
	Brake caliper to carrier to hub		115 Nm	
	Brake caliper to carrier		35 Nm	
	Brake caliper to carrier to hub		70 Nm	
	ABS sensor		9 Nm	
	ADO SONSOI	1 10111	J 14111	

Manufacturer: Ford Engine code: KKDA Tuned for: Model: Focus ('04/'08) 1,8D TDCi

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145	Road wheels							
Brake disc and drum dimensions								
	Minimum disc thickness - ventilated	Front	23 mm					
	Minimum disc thickness	Rear	9 mm					
	Disc thickness variation	Front	0,025 mm					
	Disc thickness variation	Rear	0,025 mm					
	Disc runout	Front	0,05 mm					
	Minimum pad thickness	Front	1,5 mm					
	Minimum pad thickness	Rear	1,5 mm					
	Maximum drum diameter	Rear	230,2 mm					
	Minimum shoe thickness	Rear	1 mm					
Air conditioning								
	No. of AC service connectors		2					
	Air conditioning restrictor type		Fixed orifice tube					
	Air conditioning refrigerant	Туре	R134a					
	Air conditioning refrigerant quantity	grams	600±15					
	Air conditioning oil	Туре	WSH-M1C231-B					
	Air conditioning oil quantity	cm ³	200					
	Air conditioning oil viscosity	ISO	46					

Autodata Note 81

Fig. 82608

A:

1) 20 Nm

2) 54 Nm

3) 90°

4) 90°

B:

1) 20 Nm

2) 54 Nm

3) 90°

4) 70°

Autodata Note 48

Use new bolts.

Autodata Note 82

Use new nuts.

Autodata Note 123

Replace high-pressure pipes when unions are slackened.

Pipe unions to fuel rail = 38 Nm

Autodata Note 124

Replace sensor if removed from engine.

Autodata Note 145

Steel wheels

Gold nuts = 90 Nm Silver nuts = 130 Nm

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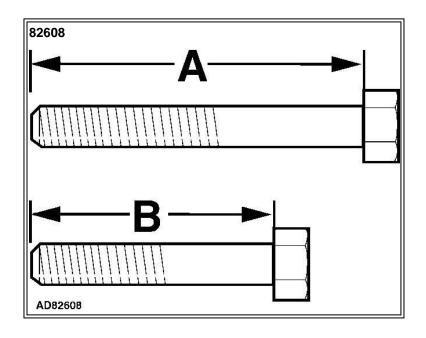
Do NOT lubricate studs, nuts or mating surfaces.

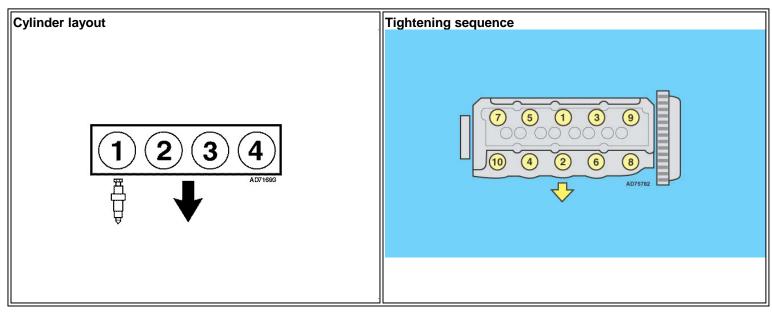
Alloy wheels

Nuts without conical washers = 130 Nm

Nuts with conical washers = 110 Nm

Do NOT lubricate studs, nuts or mating surfaces.





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