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Notes			Specified value	Measured value
Vehicle identification				
	No. of cylinders	Type	6/OHC	
	Capacity	cc	4164	
	Compression ratio	:1	18,6	
Injection system				
	Fuel/injection pump assembly	Make	Denso	
	Fuel/injection pump assembly	Type	VE	
	Fuel/injection pump assembly	Part No.	22100-17880	
	Pump type		Rotary	
	Injection sequence		1-4-2-6-3-5	
	Injector nozzle	Make	Denso	
	Nozzle opening pressure - new/used	bar	1)180 2)240	
	Leak rate (dribble)	bar/secs	98-196/10	
Tuning and emissions				
	Plunger travel (pump)	mm ABDC	1,52-1,58	
	Crankshaft position (n = ATDC)	°BTDC	0	
	Adjusting method	Engine/Pump	Pointer/ Dial gauge	
	Idle speed	rpm	700±50	
	Idle speed - alternative	rpm	AT=800±50	
	Rated no load speed	rpm	4300-4500	
	Oil temperature	°C	80	
	Idle speed - for smoke test	rpm	650-750 AT=750-850	
	Governed speed range - for smoke test	rpm	4200-4500	
	Maximum time at governed speed	secs	1,0	
	Test mode	A/B	B	
	Probe type	1/2	1	
	Conditioning	Accelerations/rpm	3	
	Smoke opacity - EU limit	m-1 (%)	3,00 (73)	
	Smoke opacity - homologation value	m-1 (%)	2,50 (66)	
Starting and charging				
	Battery	V/RC(Ah)	12/130 (80)	
	Maximum cranking amps	A	216-264	
	Alternator output	A/V/rpm	30/14,5/2000	
Service checks and adjustments				
	Valve clearance - INLET	mm	0,17-0,23 cold	
	Valve clearance - EXHAUST	mm	0,47-0,53 cold	
	Compression pressure	bar	25-35	
9	Turbo boost pressure	bar/rpm		
	Oil pressure	bar/rpm	2,5-6,0/3000	
	Radiator cap	bar	0,59-1,0	
	Thermostat (primary/secondary) open	°C	78	
	Drive belt tension - alternator/PAS/AC	mm	10	
Lubricants and capacities				
	Engine oil grade - cold climate	SAE	10W/30	
	Engine oil grade - moderate climate	SAE	10W/40	
	Engine oil grade - hot climate	SAE	20W/40	
	Engine oil classification	API/ACEA	CF/B2-96	
	Engine oil grade - alternative - moderate climate	SAE	20W/50	
	Engine with filter(s)	litres	9,7	
	Manual gearbox oil grade	SAE	75W/90	
	Manual gearbox 4/5 speed	litres	2,7	

Manufacturer: Toyota
Engine code: 1HD-FT
Tuned for:

Model: Landcruiser 4,2D Turbo
Output: 124 (168) 3600
Year: 1995-98

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Automatic transmission fluid	Type	Dexron II	
Automatic transmission (drain & refill)	litres	6,0	
Differential oil grade - front	SAE	80W/90	
Differential front/AT	litres	2,8	
Differential oil grade - rear	SAE	80W/90	
Differential rear	litres	2,8	
Cooling system	litres	10,9-12,0	
Brake fluid	Type	DOT 3	
Power steering fluid	Type	Dexron II	
Power steering fluid	litres	0,8	

Tightening torques

Cylinder head instructions			
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Cylinder head

8	Maximum bolt length		
Stage 1	Tighten	69 Nm	
Stage 2	Tighten	90°	
Stage 3	Tighten	90°	

Other tightening torques

Main bearings	Renew bolts/nuts	No	
Main bearings	Stage 1	103 Nm	
Main bearings	Stage 2	90°	
Big end bearings	Renew bolts/nuts	No	
Big end bearings	Stage 1	37 Nm	
Big end bearings	Stage 2	90°	
Flywheel/driveplate		128 Nm	
Clutch to flywheel		38 Nm	
Crankshaft pulley/damper centre bolt		430 Nm	
Camshaft sprocket/gear		98 Nm	
Camshaft carrier/cap		25 Nm	
Camshaft/rocker cover		7 Nm	
Inlet manifold to cylinder head		19 Nm	
Injector/clamp		25 Nm	
Injector pipe unions		25 Nm	
Fuel/injection pump sprocket/gear		98 Nm	
Fuel/injection pump flange		18 Nm	
Fuel/injection pump mounting		69 Nm	
Injector nozzle to holder		30 Nm	
Steering track rod end		91 Nm	
Brake caliper carrier to hub	Front	123 Nm	
Brake caliper to carrier	Rear	88 Nm	
Brake caliper carrier to hub	Rear	103 Nm	
Road wheels		147 Nm	

Brake disc and drum dimensions

Minimum disc thickness - ventilated	Front	23 mm	
Minimum disc thickness	Rear	16 mm	
Disc runout	Front	0,15 mm	
Disc runout	Rear	0,09 mm	
Maximum drum diameter	Rear	211 mm	
Minimum pad thickness	Front	1 mm	
Minimum pad thickness	Rear	1 mm	
Minimum shoe thickness	Rear	1,5 mm	
Parking brake travel	No. of notches	7-9	

Air conditioning

Air conditioning refrigerant	Type	R134a	
Air conditioning refrigerant quantity	grams	850±50	

Autodata Note 9

Warm up engine to operating temperature. Press in the clutch pedal, then press the accelerator pedal down as far as it will go. Check the boost pressure at 4400 rpm.

Pressure = 0,50-0,65 bar

Autodata Note 8

Bolt diameter = 10,55 mm Min

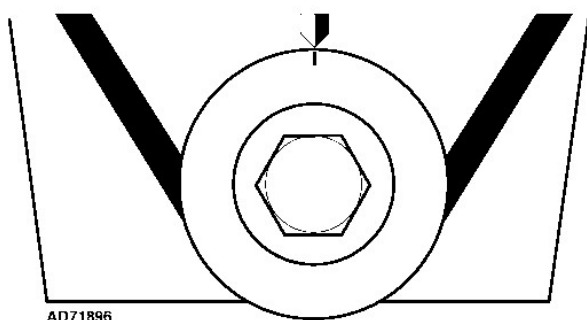
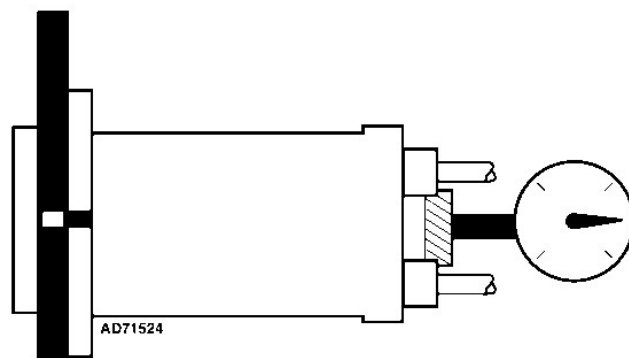
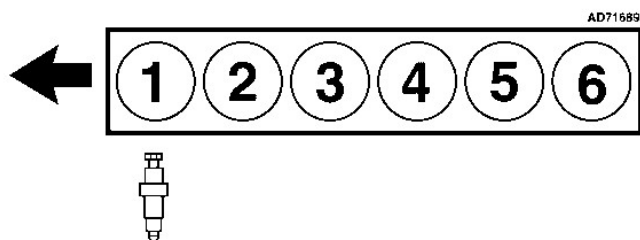
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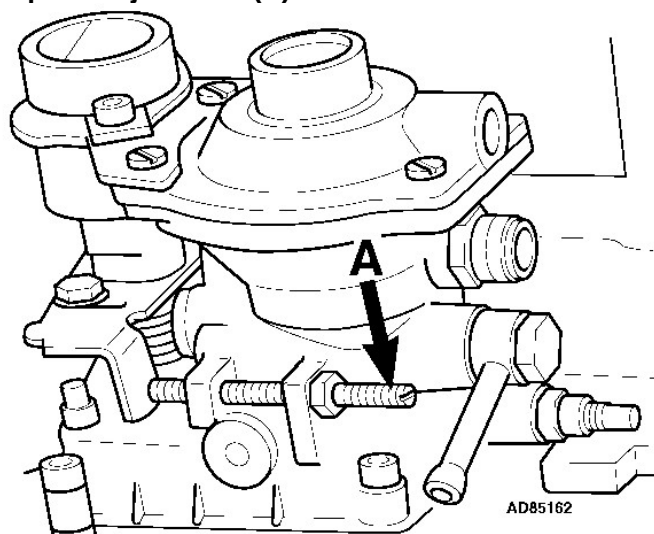
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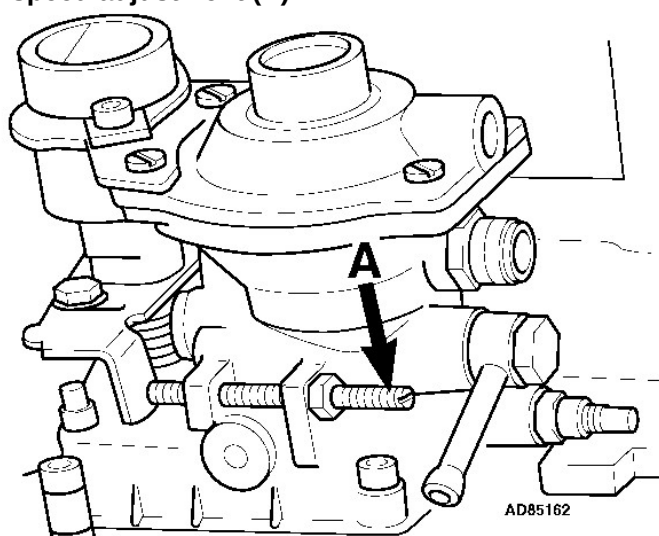
Cylinder layout



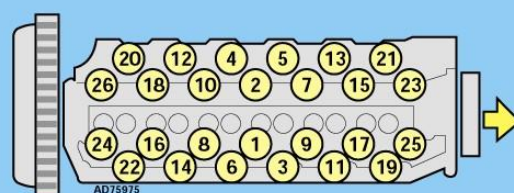
Idle speed adjustment (A)



Idle speed adjustment (A)



Tightening sequence



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Dimensions			
Notes		Specified value	Measured value
Wheelbase	mm	2850	
Tightening torques			
Notes		Specified value	Measured value
Tightening torque - steel wheels		147 Nm	
Tightening torque - alloy wheels		103 Nm	
Trackrod locknut/clamp		37 Nm	
Checking range - Front wheels			
Notes		Specified value	Measured value
Load positioning		Unladen	
Toe-in (N = negative, toe-out)	mm	0 - 2	
Toe-in	deg	0° - 0°16'	
Toe-in	deg-1/100	0 - 0,26	
Camber	deg	0°15' - 1°45'	
Camber	deg-1/100	0,25 - 1,75	
Castor	deg	2° - 4°	
Castor	deg-1/100	2 - 4	
Setting data - Four wheels			
Notes		Specified value	Measured value
Load positioning		Unladen	
Toe-in (N = negative, toe-out)	mm	1±1	
Toe-in	deg	0°8'±8'	
Toe-in	deg-1/100	0,13±0,13	
Camber	deg	1°±45'	
Camber	deg-1/100	1±0,75	
Tolerance left/right	deg	0°30'	
Tolerance left/right	deg-1/100	0,50	
Camber adjustment		Not adjustable	
Castor	deg	3°±1°	
Castor	deg-1/100	3±1	
Tolerance left/right	deg	0°30'	
Tolerance left/right	deg-1/100	0,50	
Castor adjustment		Not adjustable	
KPI (SAI)	deg	13°±45'	
KPI (SAI)	deg-1/100	13±0,75	
Included angle	deg	14°	
Included angle	deg-1/100	14	
Lock angles - max. inner	deg	32°	
Lock angles - max. inner	deg-1/100	32	
Lock angles - max. outer	deg	29°	
Lock angles - max. outer	deg-1/100	29	

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- SRS control module incorporates self-diagnosis function.
- SRS warning lamp will illuminate if certain faults are recorded.

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Address:	Model:	
	Year:	
	Registration:	
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Tel - Mobile	Date	

23-pin data link connector (DLC)

- To access active trouble codes, switch ignition ON and wait approximately 20 seconds.
- Bridge data link connector (DLC) terminals E1 and TC [Fig. 1](#) .
- Count SRS warning lamp flashes.
- Note trouble codes.
- Compare with trouble code table.
- To access intermittent trouble codes, switch ignition OFF.
- Switch ignition ON. Wait approximately 20 seconds.
- Count SRS warning lamp flashes.
- Note trouble codes.
- Compare with trouble code table.
- Each trouble code consists of two groups of flashes [Fig. 2](#) .
- A 0,5 second pause separates each flash [Fig. 2](#) [B].
- A 1,5 second pause separates each group [Fig. 2](#) [C].
- Trouble code is repeated after a 4 second pause [Fig. 2](#) [E].
- For example: Trouble code 31 displayed [Fig. 2](#) .
- Switch ignition OFF. Rectify faults as necessary.
- SRS control module fault memory can also be checked using diagnostic equipment connected to the data link connector (DLC).

16-pin data link connector (DLC)

- To access active trouble codes, switch ignition ON and wait approximately 60 seconds.
- Bridge data link connector (DLC) terminals CG and TC [Fig. 3](#) .
- Count SRS warning lamp flashes.
- Note trouble codes.
- Compare with trouble code table.
- If warning lamp flashes once every second: No fault found.
- If warning lamp flashes once every 2 seconds: Intermittent trouble codes stored.
- To access intermittent trouble codes, switch ignition OFF.
- Switch ignition ON. Wait approximately 60 seconds.
- Count SRS warning lamp flashes.
- Note trouble codes.
- Compare with trouble code table.
- Each trouble code consists of two groups of flashes [Fig. 2](#) .
- A 0,5 second pause separates each flash [Fig. 2](#) [B].
- A 1,5 second pause separates each group [Fig. 2](#) [C].
- Trouble code is repeated after a 4 second pause [Fig. 2](#) [E].
- For example: Trouble code 31 displayed [Fig. 2](#) .

Manufacturer: Toyota
Engine code: 1HD-FT
Tuned for:

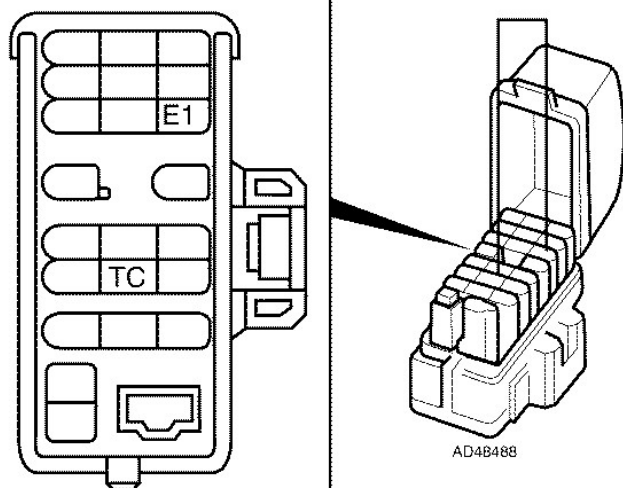
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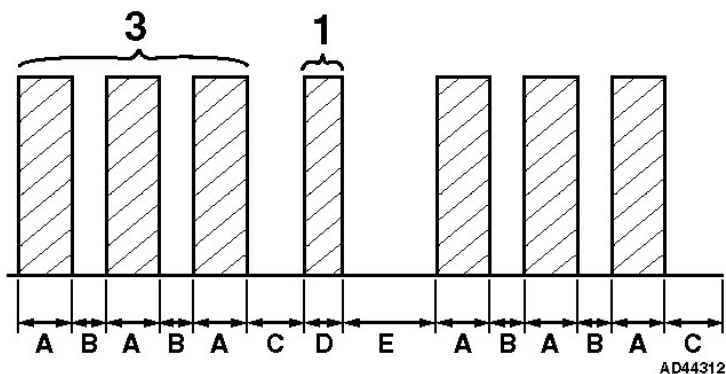
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- Switch ignition OFF. Rectify faults as necessary.
- SRS control module fault memory can also be checked using diagnostic equipment connected to the data link connector (DLC).

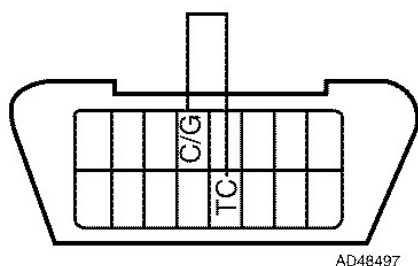
48488



44312



48497



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	Year:	
	Registration:	
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23-pin data link connector (DLC)

- Switching ignition OFF should erase trouble codes.
- If not: Connect 2 bridge wires to data link connector (DLC) terminals A/B and TC **Fig. 4**.
- Switch ignition ON. Wait 6 seconds.
- Starting with TC terminal, alternately earth TC and A/B terminals twice for a maximum of 1 second at a time.
- Immediately earth TC terminal and leave connected.
- Wait a few seconds, SRS warning lamp should flash erased trouble codes.
- If not: Repeat procedure until trouble codes erased.

NOTE: The bridge wires MUST be alternated very quickly (within 0,2 seconds).

16-pin data link connector (DLC)

NOTE: Do not use for Previa 2000 → /Avensis.

- Switching ignition OFF should erase trouble codes.
- If not: Bridge data link connector (DLC) terminals CG and TC **Fig. 3**.
- Switch ignition ON.
- Within 3-10 seconds: Disconnect bridge wire.
- Check warning lamp illuminates within 3 seconds.
- Within 2-4 seconds: Reconnect bridge wire.
- Check warning lamp extinguishes after 2-4 seconds.
- Within 2-4 seconds: Disconnect bridge wire.
- Check warning lamp illuminates after 3 seconds.
- Within 2-4 seconds: Reconnect bridge wire.
- Check warning lamp extinguishes after 2-4 seconds.
- After 1 second warning lamp flashes twice every second. Trouble codes erased.
- Disconnect bridge wire.
- If not: Repeat procedure until trouble codes erased.

16-pin DLC - Previa 2000 → /Avensis

- Switching ignition OFF should erase trouble codes.
- If not: Connect 2 bridge wires to data link connector (DLC) terminals A/B and TC **Fig. 5**.
- Switch ignition ON. Wait approximately 6 seconds.
- Starting with TC terminal, alternately earth TC and A/B terminals twice for 1 second at a time.
- Immediately earth TC terminal and leave connected.
- Wait a few seconds, SRS warning lamp should flash erased trouble codes.
- If not: Repeat procedure until trouble codes erased.

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Engine code: 1HD-FT
Tuned for:

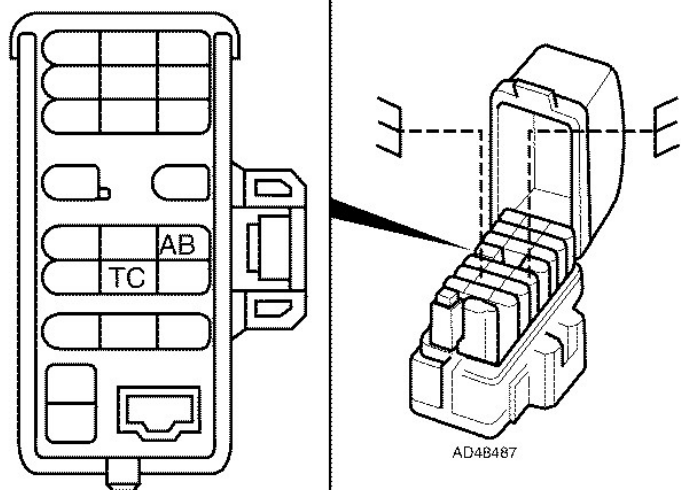
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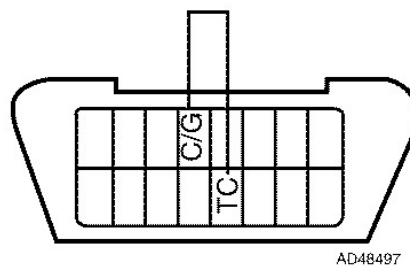
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NOTE: The bridge wires MUST be alternated very quickly.

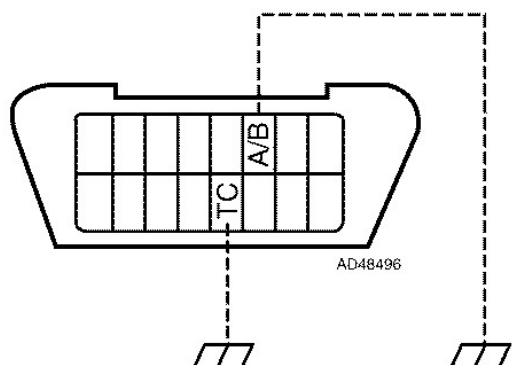
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Manufacturer: Toyota
Engine code: 1HD-FT
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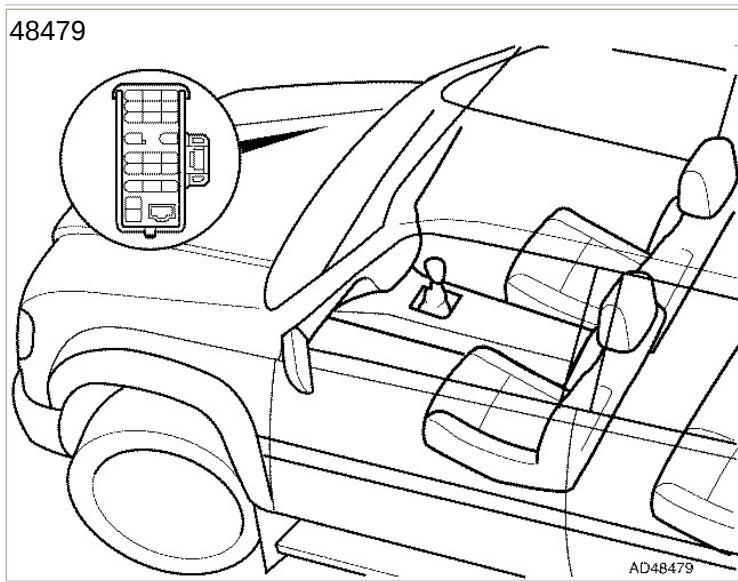
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Data link connector (DLC) location **Fig. 6**



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Model:
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Registration:
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Flash code	Trouble code	Fault location	Probable cause
11	-	Driver's airbag/passenger's airbag - short circuit to earth	Wiring, driver's airbag, passenger's airbag, spiral cable, SRS control module (Corolla → 1997, Celica, Hi-Ace, Landcruiser, Previa, Camry, Picnic)
11	-	Driver's airbag/front crash sensor - short circuit to earth	Wiring, driver's airbag, spiral cable, front crash sensor, SRS control module (Prevía 1997-99)
11	B0102	Driver's airbag - short circuit to earth	Wiring, driver's airbag, spiral cable, SRS control module
12	-	Driver's airbag/passenger's airbag - short circuit to positive	Wiring, driver's airbag, passenger's airbag, spiral cable, SRS control module (Corolla → 1997, Celica, Hi-Ace, Landcruiser, Previa, Camry, Picnic)
12	-	Driver's airbag/front crash sensor - short circuit to positive	Wiring, driver's airbag, spiral cable, front crash sensor, SRS control module (Prevía 1997-99)
12	B0103	Driver's airbag - short circuit to positive	Wiring, driver's airbag, spiral cable, SRS control module
13	B0100	Driver's airbag - short circuit	Wiring, driver's airbag, spiral cable, SRS control module
14	B0101	Driver's airbag - open circuit	Wiring, driver's airbag, spiral cable, SRS control module
15	-	Front crash sensor - open circuit	Wiring, front crash sensor, SRS control module (Prevía → 1996)
15	B1156	Front crash sensor, RH - malfunction	Wiring, front crash sensor, SRS control module
15	B1157	Front crash sensor, RH - malfunction	Wiring, front crash sensor, SRS control module
16	B1158	Front crash sensor, LH - malfunction	Wiring, front crash sensor, SRS control module
16	B1159	Front crash sensor, LH - malfunction	Wiring, front crash sensor, SRS control module
17	B1180	Driver's airbag, stage 2 - short circuit	Wiring, driver's airbag, spiral cable, SRS control module
18	B1181	Driver's airbag, stage 2 - open circuit	Wiring, driver's airbag, spiral cable, SRS control module
19	B1182	Driver's airbag, stage 2 - short circuit to earth	Wiring, driver's airbag, spiral cable, SRS control module
22	-	SRS warning lamp - intermittent malfunction	Wiring, SRS warning lamp, SRS control module (Prevía)
22	B1183	Driver's airbag, stage 2 - short circuit to positive	Wiring, driver's airbag, spiral cable, SRS control module (Camry 2001 → , Landcruiser 2002 →)
24	B1135	SRS control module - poor multi-plug connection	Multi-plug at SRS control module incorrectly fitted, SRS control module
25	B1153	Seat position sensor - malfunction	Wiring, seat position sensor, SRS control module
26	B0121	Seat belt buckle switch, RH - malfunction	Wiring, seat belt buckle switch, SRS control module (RHD)
26	B0122	Seat belt buckle switch, RH - malfunction	Wiring, seat belt buckle switch, SRS control module (RHD)

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27	B0126	Seat belt buckle switch, LH - malfunction	Wiring, seat belt buckle switch, SRS control module (LHD)
27	B0127	Seat belt buckle switch, LH - malfunction	Wiring, seat belt buckle switch, SRS control module (LHD)
29	B1628	Rollover detection deactivation switch lamp - malfunction	Wiring, rollover detection deactivation switch lamp, SRS control module
31	B1100	SRS control module - malfunction	SRS control module
32	B1140	Side crash sensor, RH B post - malfunction	Wiring, side crash sensor
32	B1146	Side crash sensor, RH B post - malfunction	Wiring, side crash sensor
33	B1141	Side crash sensor, LH B post - malfunction	Wiring, side crash sensor
33	B1147	Side crash sensor, LH B post - malfunction	Wiring, side crash sensor
34	-	Side crash sensor, RH door - malfunction	Wiring, side crash sensor
35	-	Side crash sensor, LH door - malfunction	Wiring, side crash sensor
36	B1148	Front crash sensor, RH - malfunction	Wiring, front crash sensor, SRS control module
37	B1149	Front crash sensor, LH - malfunction	Wiring, front crash sensor, SRS control module
38	B1154	Side crash sensors, rear RH - in C posts	Wiring, crash sensor, SRS control module
39	B1155	Side crash sensors, rear LH - in C posts	Wiring, crash sensor, SRS control module
41	B0112	Side airbag, RH - short circuit to earth	Wiring, side airbag, SRS control module
42	B0113	Side airbag, RH - short circuit to positive	Wiring, side airbag, SRS control module
43	B0110	Side airbag, RH - short circuit	Wiring, side airbag, SRS control module
44	B0111	Side airbag, RH - open circuit	Wiring, side airbag, SRS control module
45	B0117	Side airbag, LH - short circuit to earth	Wiring, side airbag, SRS control module
46	B0118	Side airbag, LH - short circuit to positive	Wiring, side airbag, SRS control module
47	B0115	Side airbag, LH - short circuit	Wiring, side airbag, SRS control module
48	B0116	Side airbag, LH - open circuit	Wiring, side airbag, SRS control module
51	B0107	Passenger's airbag - short circuit to earth	Wiring, passenger's airbag, SRS control module
52	B0108	Passenger's airbag - short circuit to positive	Wiring, passenger's airbag, SRS control module
53	B0105	Passenger's airbag - short circuit	Wiring, passenger's airbag, SRS control module
54	B0106	Passenger's airbag - open circuit	Wiring, passenger's airbag, SRS control module
55	B1187	Passenger's airbag, stage 2 - short circuit to earth	Wiring, passenger's airbag, SRS control module
56	B1188	Passenger's airbag, stage 2 - short circuit to positive	Wiring, passenger's airbag, SRS control module
57	B1185	Passenger's airbag, stage 2 - short circuit	Wiring, passenger's airbag, SRS control module

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58	B1186	Passenger's airbag, stage 2 - open circuit	Wiring, passenger's airbag, SRS control module
61	B0132	Pyrotechnic pretensioner, RH - short circuit to earth	Wiring, pyrotechnic pretensioner, SRS control module
62	B0133	Pyrotechnic pretensioner, RH - short circuit to positive	Wiring, pyrotechnic pretensioner, SRS control module
63	B0130	Pyrotechnic pretensioner, RH - short circuit	Wiring, pyrotechnic pretensioner, SRS control module
64	B0131	Pyrotechnic pretensioner, RH - open circuit	Wiring, pyrotechnic pretensioner, SRS control module
71	B0137	Pyrotechnic pretensioner, LH - short circuit to earth	Wiring, pyrotechnic pretensioner, SRS control module
72	B0138	Pyrotechnic pretensioner, LH - short circuit to positive	Wiring, pyrotechnic pretensioner, SRS control module
73	B0135	Pyrotechnic pretensioner, LH - short circuit	Wiring, pyrotechnic pretensioner, SRS control module
74	B0136	Pyrotechnic pretensioner, LH - open circuit	Wiring, pyrotechnic pretensioner, SRS control module
81	B1162	Inflatable curtain, RH - short circuit to earth	Wiring, inflatable curtain, SRS control module
82	B1163	Inflatable curtain, RH - short circuit to positive	Wiring, inflatable curtain, SRS control module
83	B1160	Inflatable curtain, RH - short circuit	Wiring, inflatable curtain, SRS control module
84	B1161	Inflatable curtain, RH - open circuit	Wiring, inflatable curtain, SRS control module
85	B1167	Inflatable curtain, LH - short circuit to earth	Wiring, inflatable curtain, SRS control module
86	B1168	Inflatable curtain, LH - short circuit to positive	Wiring, inflatable curtain, SRS control module
87	B1165	Inflatable curtain, LH - short circuit	Wiring, inflatable curtain, SRS control module
88	B1166	Inflatable curtain, LH - open circuit	Wiring, inflatable curtain, SRS control module

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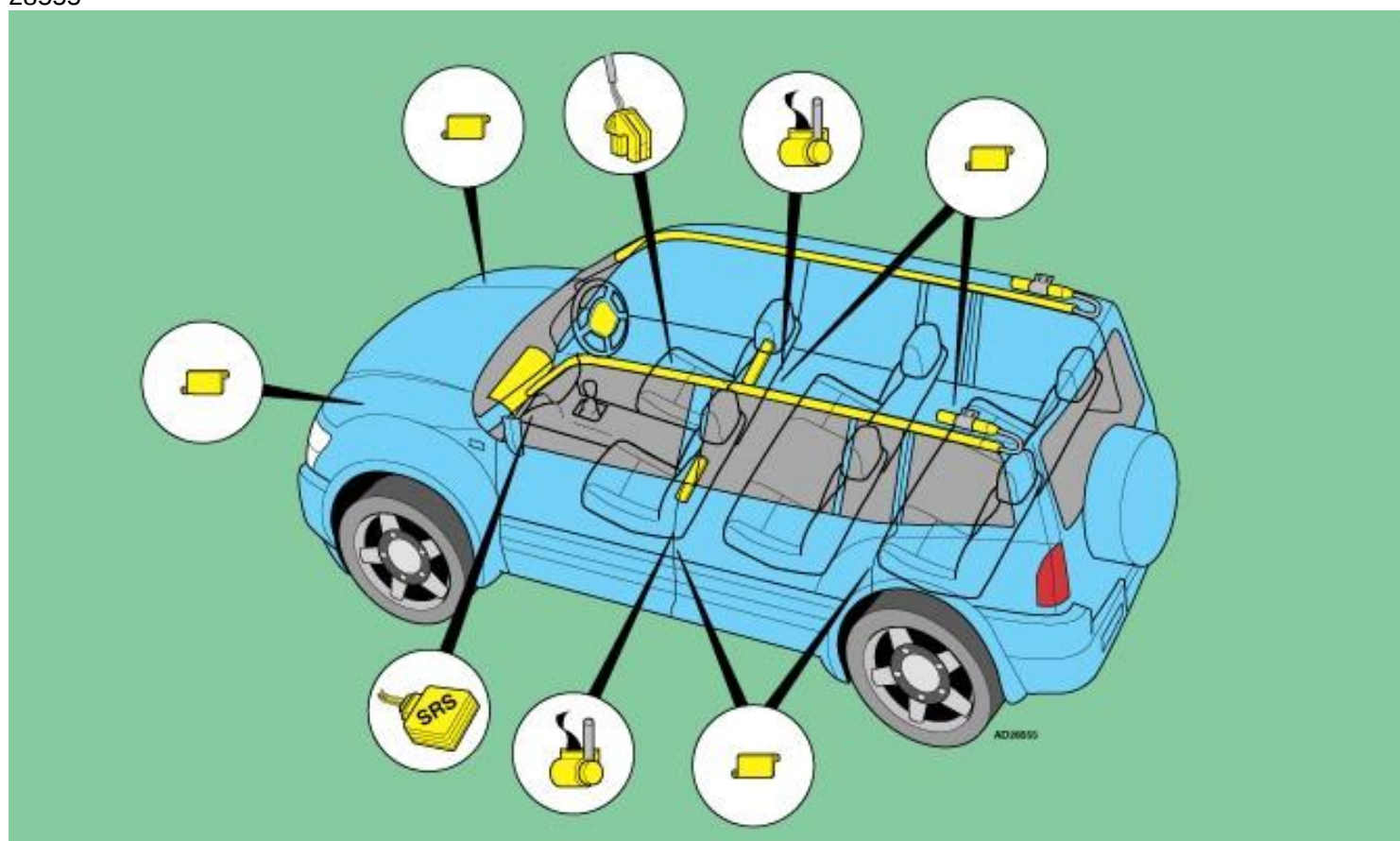
Telephone:
Fax:
VAT Registration No.:

Name:
Address:

Manufacturer: Toyota
Model:
Year:
Registration:
Mileage:
Job number:
Date

Tel - Private:
Tel - Business:
Tel - Mobile

28555



Manufacturer: Toyota
Engine code: 1HD-FT
Tuned for:

Model: Landcruiser 4,2D Turbo
Output: 124 (168) 3600
Year: 1995-98

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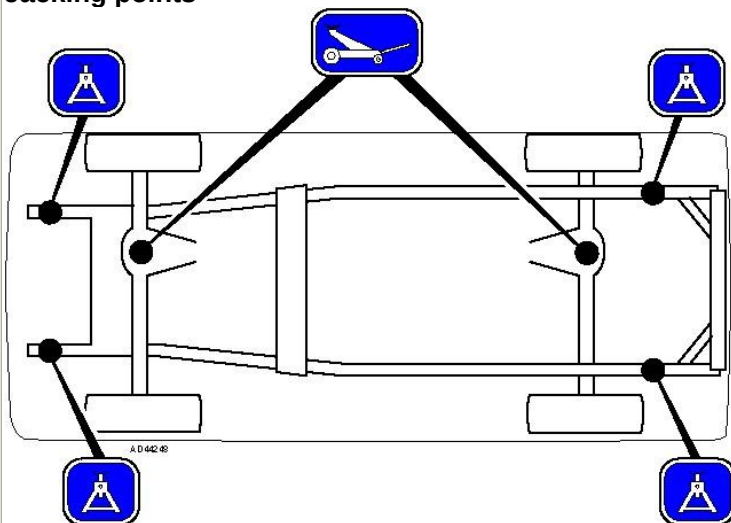
<http://dieselmaster.ucoz.ru>

Name:
Address:

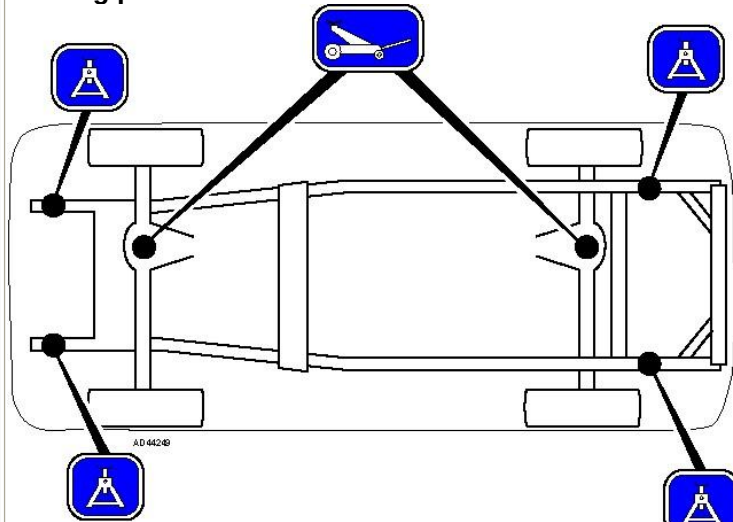
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Tel - Business:
Tel - Mobile

Manufacturer: Toyota
Model:
Year:
Registration:
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Job number:
Date

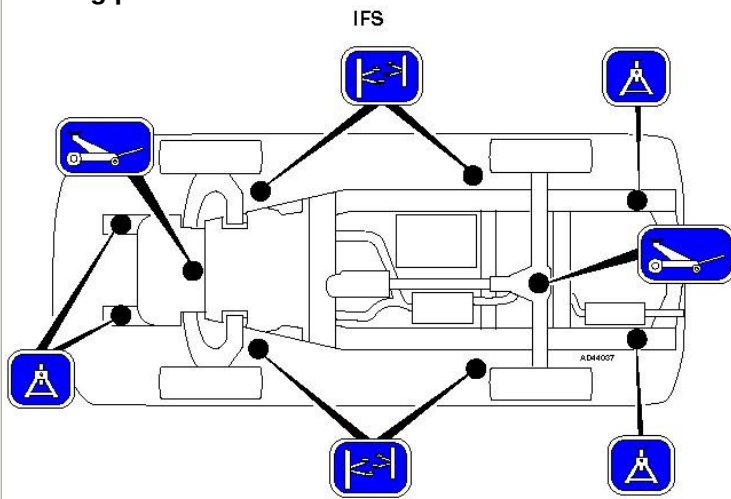
Jacking points



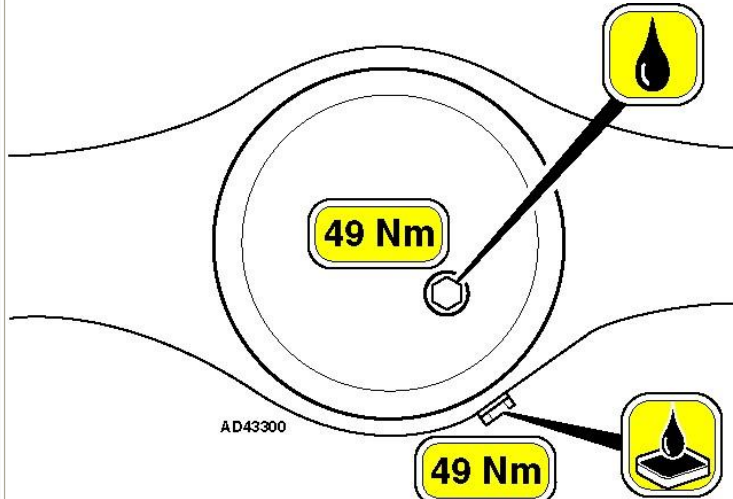
Jacking points



Jacking points



Front axle



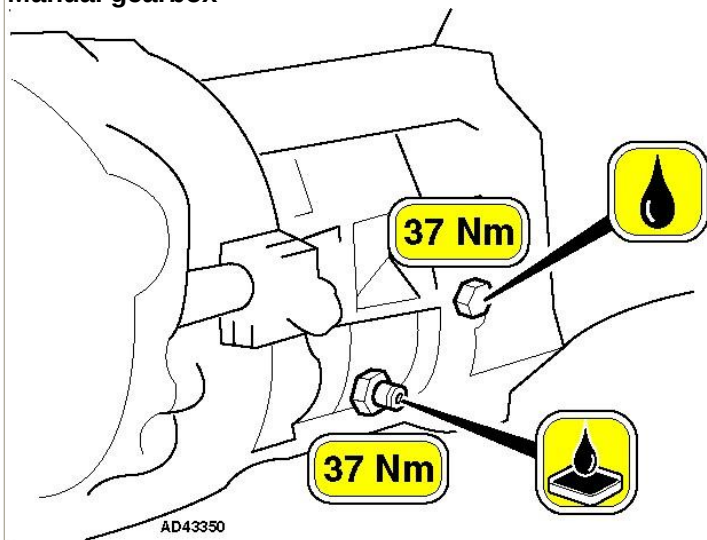
Manufacturer: Toyota
Engine code: 1HD-FT
Tuned for:

Model: Landcruiser 4,2D Turbo
Output: 124 (168) 3600
Year: 1995-98

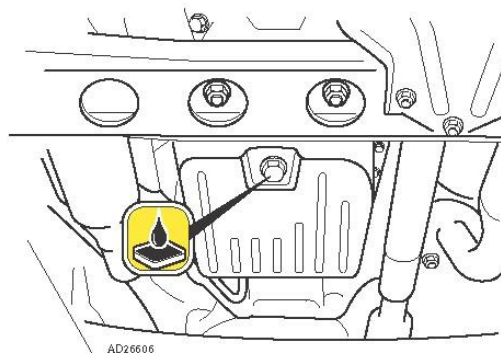
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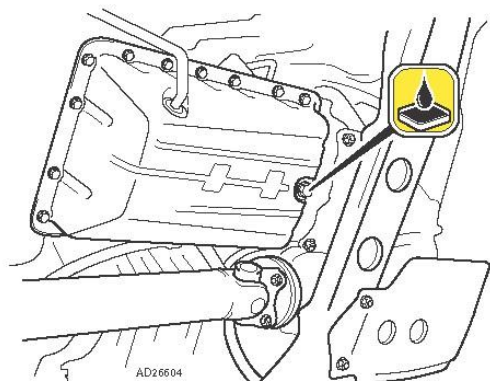
Manual gearbox



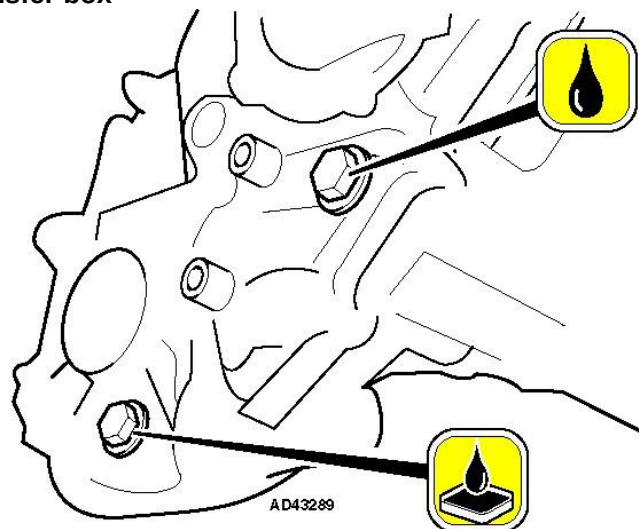
Automatic transmission



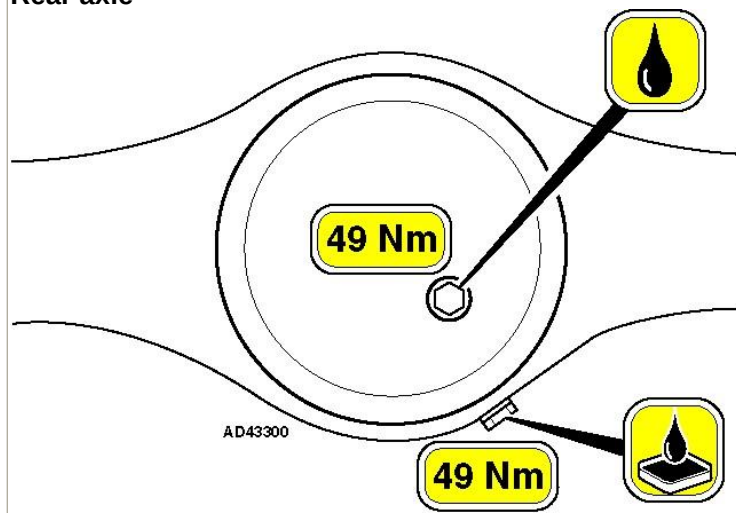
Automatic transmission



Transfer box



Rear axle



Manufacturer: Toyota
Engine code: 1HD-FT
Tuned for:

Model: Landcruiser 4,2D Turbo
Output: 124 (168) 3600
Year: 1995-98

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