Fuel tank fix and suspension replacement plan

25 June 2022 20:28

Tools needed:

- 1x C spanner
- Gas canister for plastic welder

Other parts to buy:

- Scrivets
- Fuel pump relay

Parts needed:

Tank:

Item	Part No.	Description	Notes	Qty on Car	Qty for this job	Source
001	A100B0244K	Fuel Filler Flap (in primer)	-	1		
002	A100B6112F	Buffer, fuel filler flap shut stop	-	2		
003	B100U0094F	Striker, fuel filler flap	-	1		
004	A075W4000Z	Washer, flat, striker to flap	-	1		
005	A075W3008Z	Nut, Nyloc, M5, striker to flap	-	1		
006	A082U6122F	Latch, fuel filler flap release	-	1		
007	A089W5138F	Screw, No.6 x half", latch to body	-	1		
008	A075W6013Z	Spire Nut, No.6, latch to body	-	1		
009	C100B0607F	Cable Assembly, fuel filler flap release	-	1		
010	A075W4025Z	Washer, fuel filler flap release cable/body	-	1		
011	B100U0091F	Hinge Assembly, fuel filler flap	-	1		
012	A085U6080V	Edging Strip, hinge	As Required	1		
015	A100W7101F	Screw, M5 x 16, hinge to body	-	2		
016	A100W4134F	Washer, flat, hinge to body	-	2		
017	A082W4115F	Washer, neoprene, hinge to body	-	2		
018	A100U0413F	Tapping Plate, hinge to body	-	1		
022	A075W4000Z	Washer, flat, fuel filler flap to hinge	-	2		
023	A075W3008Z	Nut, Nyloc, M5, fuel filler flap to hinge	-	2		
025	A100L6013F	Fuel Filler Cap	-	1		
026	A075W5081F	Screw, clamp plate to body	-	2		
027	A082W4099F	Washer, clamp plate to body	-	2		
028	B100L0086F	Clamp Plate, fuel filler neck	-	1		
029	B100L0085F	Seal, fuel filler neck	-	2		
030	A100L6040F	Filler Neck, leaded & unleaded fuel	Non-catalyst	1		
030	A100L6009F	Filler Neck, unleaded fuel	Catalyst	1		
032	A100L0034F	Hose, fuel filler	-	1		
033	A910E6389F	Hose Clip, hose to filler neck & tank	-	2		
034	A100L0077F	Grommet, filler hose through body	-	1		
035	D100L0028H	Fuel Tank, Less Pump/Sender	-	1	1	
035	B100L0087F	Fuel Tank Assembly, plastic	R/B D100L0087F	1	If above not available	
035	D100L0087F	Fuel Tank Assembly, plastic	(includs items: 36, 38, 39 & pump/sender)	1	If above not available	
036	B100L0089H	Pad, fuel tank to body	-	7		
037	A100L0139F	Balance Pipe Assembly	From VIN M6634 with breather take-off	1		
037	A100L0113F	Balance Pipe Assembly	Prior VIN M6634 without breather take-off	1		
038	A100L0033F	Locking Ring, fuel pump/sender to tank	-	1		
039	A100L0032F	Sealing Ring, fuel pump/sender to tank	-	1		
040	B100B0270J	Access Cover Assembly, fuel pump/sender unit	Includes seal	1		
041	A100B0276F	Seal, access cover to body	-	1		
042	A082W5107F	Screw, M5 x 16, access cover to body	-	4		
043	A075W6074F	Rawlnut, M5, access cover to body	-	4		
045	A100L0128K	Strap Assembly, fuel tank securing, inner	-	1		
046	A100L0129K	Strap Assembly, fuel tank securing, outer	-	1		
047	A100L0132F	Bracing Strap, fuel tank securing	-	1		
048	A100L0135K	Protective Sleeve, inner strap	595mm	1		
049	A100L0134K	Protective Sleeve, outer strap	690mm	1		
050	A100L0136K	Protective Sleeve, bracing strap	200mm	1		
051	A100L6003F	Setscrew, M10 x 25, strap lower fixing	-	2	2	
052	A075W4024Z	Washer, strap fixing screw	-	2	Already have	
053	A075W2053Z	Bolt, M10 X 45, strap upper fixing	-	2	2	
054	A075W4024Z	Washer, strap upper fixing	-	2	Already have	
055	A075W3024Z	Locknut, M10, strap upper fixing	-	2	2	

Rear suspension:

Item	Part No.	Description	Notes	Qty on Car	Qty for this job	Source
000	LOTSKEL001	Kit, Suspension Upgrade, Stage 1 (less dampers)	Prior to VIN R6001	1		
000	LOTSKEL002	Kit, Suspension Upgrade, Stage 2 (inc. dampers)	Prior to VIN R6001	1		
001	A100D6010F	Hub Cap	-	2		
002	A100D6007F	Hub Nut	-	2		

003	A100D6006F	Split Pin, hub nut retaining	-	2		
004	A100D6005F	Locking Washer, hub nut	-	2		
005	B100J0008F	Rear Hub/Brake Disc	-	2		
006	A100D6009F	Rear Wheel Bearing, outer	-	2		
007	A100D6008F	Rear Wheel Bearing, inner	-	2		
008	A100D6012F	Sealing Ring, rear hub	-	2		
009	A100D6013F	Stub Axle, rear, LH	-	1		
009	A100D6014F	Stub Axle, rear, RH	-	1		
011	G100D0023F	Hub Carrier, rear, LH	-	1		
011	G100D0022F	Hub Carrier, rear, RH	-	1		
013	A100D0056F	Bolt, M10 x 30, stub axle to hub carrier	-	8		
014	A075W4024Z	Washer, M10 x 20, stub axle to hub carrier	-	8		
015	A100D0024F	Bracket, brake caliper mounting	-	2		
016	A100D0067F	Cap Screw, brake caliper mounting bracket/carrier	-	8		
020	A100D0092S	Link End (inc. bush) top link	Use with A100D0091S - Prior to VIN R6001	2		
021	A100D0091S	Top Link, adjustable	Square - Prior to VIN R6001	2		
022	A100D0096J	Top Link, adjustable	Tubular. (Includes items 23, 24, 25) - does not include bushes	2		
023	A100D0097F	End Piece, upper link, long	-	2		
024	A100D0098F	End Piece, upper link, short	-	2		
025	A082D4161F	Adjuster Trunnion, top link	-	2		
026	-	Locknut	-	1		
027	-	Locknut	-	1		
030	B100D6018F	Bush, top link	-	4	1	○ https://www.sjsportscars.com/parts-and-accessories/B100D6018F.htm ○ https://www.thelotuscentreonline.co.uk/epages/sdctukef2v6v.mobile/en_GB/?ObjectPath=/Shops/sdctukef2v6v/Products/%22B100D6018F/103%22
031	B100D0049F	Reducing sleeve, top link to chassis	Prior to VIN R6001	2		
034	B100D0049F	Reducing sleeve, top link to carrier, 37mm long	5° anti-lift angle - Prior to VIN R6001	4	2	
034	A100D0081F	Reducing sleeve, top link to carrier, 80mm long	2.5° anti-lift angle	2	If the above is unavailable	
035	-	Bolt, M12 x , carrier to top link	5° anti-lift angle - Prior to VIN R6001	2	Don't know the part	
035	B079W2074F	Bolt M12 x 110, carrier to top link	2.5° anti-lift angle	2	1	
036	A100D0037F	Snubber Washer, 12mm I/D, bolt head	Prior to VIN R6001	2	1	
037	A100D0039F	Snubber Washer, 16mm I/D, top link/carrier	5° anti-lift angle - Prior to VIN R6001	2	1	
040	A100D0080F	Spacer Washer, 9.5mm thick, top link/carrier	2.5° anti-lift angle	2	These aren't on my car, AFAICT	
043	A075W4028Z	Washer, M12 x 24, carrier to top link	-	2	Already have	
044	A075W3078F	Nut, Nyloc, M12, carrier to top link	-	2	Already have	
045	C100D0033F	Cam & Bolt Assembly, camber adjustment	Prior to VIN R6001	2		
046	A075W2040Z	Bolt, link clamping	Prior to VIN R6001	2		
047	A079W4019F	Washer, M8 x 20, camber adjustment bolt	Prior to VIN R6001	6		
048	A075W3010Z	Nut, Nyloc, M8, camber adjustment bolt	Prior to VIN R6001	4		
050	A100D6023F	Bolt, M12 X 70, top wishbone inner pivot	-	2		
051	A075W4028Z	Washer, M12 x 24, top wishbone inner pivot	-	2		
052	A100D0037F	Snubber Washer, 12.0mm I/D, stay/top link	-	2		
052	A100D0039F	Snubber Washer, 16.0mm I/D ,top link/chassis	-	2		
055	A100A0658F	Link Stay, wishbone	5° anti-lift angle - Prior to VIN R6001	2		
055	B100A0658F	Link Stay, wishbone	2.5° anti-lift angle	2		
056	A100D0090S	Lower Wishbone Assembly, (inc. bushes) RH, 5°	Prior to VIN R6001 - R/B A100D0088S	1		
056	A100D0093S	Kit, lower wishbone replacement	Prior to VIN R6001 - Use when replacing early chassis (See 30.01A). Incldes 2.5° LH & RH wishbone assemblies, link stays, spigot sleeves, spacers & fixings.	1		
056	A100D0087S	Lower Wishbone Assembly, (inc. bushes) LH, 2.55°	-	1		
056	A100D0088S	Lower Wishbone Assembly, (inc. bushes) RH, 2.5°	-	1		
056	A100D0089S	Lower Wishbone Assembly, (inc. bushes) LH, 5°	Prior to VIN R6001 - R/B A100D0087S	1		
061	A100D0059F	Cam & Bolt, lower wishbone forward fixing	-	2	2	○ https://www.sjsportscars.com/parts-and-accessories/A100D0059F.htm ○ https://kelvedonlotus.co.uk/product/track-adjusting-bolt/ ○ https://www.thelotuscentreonline.co.uk/epages/sdctukef2v6v.mobile/en_GB/?ObjectPath=/Shops/sdctukef2v6v/Products/A100D0059F
062	A075W2071F	Bolt, M12 X 75, lower wishbone rear/link stay	-	2	Already have	
063	A075W4028Z	Washer, M12 x 24, lower wishbone fixing	-	6	Already have	
064	A075W3078F	Nut, Nyloc, M12, lower wishbone fixing	-	4	Already have	
065	E100C6002F	Bush, lower wishbone, inner pivot, forward	Orange colour code	4	3	○ https://www.thelotuscentreonline.co.uk/epages/sdctukef2v6v.sf/en_GB/?ObjectPath=/Shops/sdctukef2v6v/Products/%22E100C6002F/102%22 ○ https://kelvedonlotus.co.uk/product/lower-wishbone-bush-front-and-rear/ ○ https://www.sjsportscars.com/parts-and-accessories/SJ100D0006.htm ▪ This is for a "per axle set", so I assume it's 4x and covers the item below too
066	B100D6019F	Bush, lower wishbone, inner pivot, rear	White colour code	4	3	○ https://www.thelotuscentreonline.co.uk/epages/sdctukef2v6v.sf/en_GB/?

						ObjectPath=/Shops/sdctukef2v6v/Products/%22B100D6019F/102%22
067	D100D6002F	Bush, lower wishbone, outer pivot	-	4		
070	C100D0044F	Pivot Stud, lower wishbone to hub carrier	-	2		
070a	A100D0039F	Snubber Washer, 16mm I/D, lower wishbone/carrier	-	4		
070b	A100D0038F	Snubber Washer 14mm I/D, lower wishbone/nut	-	4		
071	A075W3069Z	Nut, Nyloc, M14 lower wishbone outer	-	4		
075	C100D0028F	Anti-Roll Bar Assembly, rear	-	1		
076	A100D6024F	Ball Joint, anti-roll bar to lower wishbone	-	2	1	○ https://www.pnmparts.co.uk/lotus-elan-m100-arb-wishbone-rear-ball-joint-6024 ○ https://paulmattysportscars.co.uk/product/m100-ball-joint-rear-r-bar/ ○ https://www.sjsportscars.com/parts-and-accessories/A100D6024F.htm
077	A100D0072F	Washer, anti-roll bar fixing	-	4	Already have	
078	A100W3112F	Nut, Nyloc, M10, anti-roll bar fixing	-	2	Already have	
080	A100C6011F	Drop Link, anti-roll bar	-	2		
081	A075W2053Z	Bolt, M10 x 45, drop link fixing	-	4	2 Already have	
082	A075W4021Z	Washer, M10 x 20, drop link fixing	-	8	4 Already have	
083	A075W3011Z	Nut, Nyloc, M10, drop link fixing	-	4	2 Already have	
085	B100D0083F	Spring/Damper Assembly, rear,	Prior to VIN R6001 - Valid for USA Turbo (Red/yellow/orange colour code)	2		
085	F100D0030F	Spring/Damper Assembly, rear	Prior to VIN R6001 - Not for USA Turbo (Green/yellow/white R/B J100D0030J - in pairs)	2		
085	J100D0030J	Spring/Damper Assembly	From VIN R6001 - Green/yellow/white	2		
086	B100D0071F	Spring, rear	Prior to VIN R6001 - Not for USA Turbo (Green/yellow/white R/B J100D0030J - in pairs)	2	2	
086	B100D0071F	Spring, rear	From VIN R6001 - Green/yellow/white	2	If above not available	
086	A100D0082H	Spring, rear	Prior to VIN R6001 - Valid for USA Turbo (Red/yellow/orange colour code)	2		
087	E100D6011F	Damper, rear	From VIN R6001	2	If below not available	
087	C100D6011H	Damper, rear	Prior to VIN R6001 - Not for USA Turbo (R/B E100D6011F - in pairs)	2	2 - AVO	
087	B100D6025H	Damper, rear	Prior to VIN R6001 - Valid for USA Turbo	2		
088	A100C6013H	Gaiter, damper	-	2	2?	
089	B100C6012F	Fixings Kit, rear damper mounting	-	2	Should be included with AVO damper	○ https://www.sjsportscars.com/parts-and-accessories/B100C6012F.htm
090	A100C0075F	Mounting Assembly, damper top plate	-	2	2	○ https://kelvedonlotus.co.uk/product/top-plate-damper-mount/
090a	A075W4020Z	Washer, flat, M8 x 16, rear damper top fixing	-	6	Already have	
090b	A075W3010Z	Nut, Nyloc, M8,	-	6	Already have	
091	A100C0038F	Isolator, spring/damper to chassis	-	2	2	○ https://www.pnmparts.co.uk/elan-m100/lotus-insulator-0038 ○ https://www.sjsportscars.com/parts-and-accessories/A100C0038F.htm ○ https://kelvedonlotus.co.uk/product/isolator-spring-to-plate/
092	A100D6020H	Bottom Eye Bush, rear danger	-	2	Should be included with AVO damper	○ https://espritengineering.co.uk/product/lotus-part-a100d6020h/ ○ https://www.sjsportscars.com/parts-and-accessories/A100D6020H.htm
093	A100D6022F	Bolt, M12 X 65, damper lower fixing	-	2	2	
094	A075W4028Z	Washer, M12 x 24, damper lower fixing	-	2	Already have	
095	A075W3078F	Nut, Nyloc, M12, damper lower fixing	-	2	Already have	

Front suspension:

Item	Part No.	Description	Notes	Qty on Car	Qty for this job	Source
001	A100C6007F	Hub, front	-	2		
005	A100C6009F	Bearing, front hub	-	2		
006	A100C6010F	Circlip, bearing retention	-	4		
007	J100C0034G	Hub Carrier, front, RH	-	1		
007	J100C0033G	Hub Carrier, front, LH	-	1		
009	A100C6021F	Nut, Nyloc, M12, hub carrier to upper ball joint	thin	2		
010	A100C6019F	Nut, Nyloc, M12, hub carrier to lower ball joint	-	2		
011	F100C0058F	Upper Ball Joint	-	2		
012	A100C0025F	Shim Plate, castor adjustment	-	16		
014	B100C0129F	Wishbone Half, upper forward, LH	Valid for USA - Prior to VIN R6001	1		
014	F100C0017F	Wishbone Half, upper	Not for USA (R/B A100C0148F) - Prior to VIN R6001	4		
014	A100C0149F	Wishbone Half, upper forward, LH	Braced - Fom VIN R6001	1		
014	B100C0130F	Wishbone Half, upper forward, RH	Valid for USA - Prior to VIN R6001	1		
014	A100C0150F	Wishbone Half, upper forward RH	Braced - Fom VIN R6001	1		
015	A100C0148F	Wishbone Half, upper rear	Braced - Fom VIN R6001	2		
015	A100C0128F	Wishbone Half, upper rear,	Valid for USA - Prior to VIN R6001	2		
016	A075W1046	Setscrew, M10 x 20, wishbone bracing	with USA & braced type upper wishbones	2		

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017	A075W4024F	Washer, M10 x 20, wishbone bracing	with USA & braced type upper wishbones	2
018	A075W3011F	Nut, Nyloc, M10, wishbone bracing	with USA & braced type upper wishbones	2
020	A100W7086F	Screw, M8 x 70, wishbone to ball joint (outer)	-	2
021	A075W4020Z	Washer, M8 x 16, wishbone to ball joint (outer)	-	4
022	A100C6022F	Nut, Kayloc, M8, wishbone to ball joint (outer)	-	4
023	A100C0124F	Bolt, M8 X 85, wishbone to ball joint (inner)	-	4
024	AlOOCOllOF	Plate, camber adjust, 12.5mm	-	4
024	AlOOCOlllF	Plate, camber adjust, 14.0mm	-	4
024	A100C0109F	Plate, camber adjust, 10.5mm	-	4
024	A100C0125F	Plate, camber adjust, 11.5mm	-	4
025	B100J0127F	Bracket, brake hose to wishbone, LH	Valid for early cars. (Later cars have integral bracket)	1
025	B100J0126F	Bracket, brake hose to wishbone, RH	Valid for early cars. (Later cars have integral bracket)	1
026	A075W1085F	Setscrew, M5 x 16, bracket to wishbone	Valid for early cars. (Later cars have integral bracket) Valid for early cars. (Later cars have integral bracket)	4
027	A075W4011Z	Washer, M5 x 10, bracket to wishbone	-	4
028	A075W3008Z	Nut, Nyloc, M5, bracket to wishbone	Valid for early cars. (Later cars have integral bracket)	4
035	B100C0051F	Stud, wishbone pivot	-	2
036	C100C6003F	Bush, upper wishbone	-	4
037	A100b0037F	Snubber Washer, 12mm, wishbone pivot	-	4
038	A100W3107F	Half Nut, M12, wishbone pivot	-	2
039	A075W3078F	Nut, Nyloc, M12, wishbone pivot	-	4
040	A100C0119F	Raft Assembly, front suspension, LH	Prior to VIN R6001	1
040	A100C0118F	Raft Assembly, front suspension, RH	inc. bushes (Prior to VIN R6001)	1
040	B100C0119F	Raft Assembly, front suspension, LH	inc. bushes (Fom VIN R6001)	1
040	B100C0118F	Raft Assembly, front suspension, RH	inc. bushes (Fom VIN R6001)	1
041	A100C0030H	'Top Hat' Bush, raft/top wishbone	-	4
042	D100C60iaF	Bush, raft upper	-	4
043	A100C0074F	Bolt, M12 x 77, thin head, raft upper/longeron	-	2
044	B100C0045F	Mounting Plate, raft, inner	-	2
045	B100C0046F	Mounting Plate, raft, outer	-	2
046	A100C6027F	Bolt, M8 X 75, mounting plate to raft	-	6
047	A075W4020Z	Washer, M8 x 16, mounting plate to raft	-	6
050	C100C6006F	Bush, flanged, raft lower forward	-	4
051	C100C6006F	Bush, flanged, raft lower rear	Prior to VIN R6001	2
051	E100C6001F	Bush, flanged, raft lower rear	Yellow colour code - Fom VIN R6001	2
055	A100C0132S	Track Control Arm Assembly, (TCA), RH	inc. pivot bushes, lower ball joint & damper yoke bush	1
055	A100C0133S	Track Control Arm Assembly, (TCA), LH	inc. pivot bushes, lower ball joint & damper yoke bush	1
057	A100C0135S	Strut Assembly, rack Control Arm, LH	inc. pivot bushes	1
057	A100C0134S	Strut Assembly, Track Control Arm, RH	inc. pivot bushes	1
060	A100C6020F	Lower Ball Joint, Track Control Arm,	-	2
061	E100C6002F	Bush, lower wishbone	Orange colour code	8
062	A100C0030H	'Top Hat' Insert, Track Control Arm strut to raft	-	4
065	A100C0031F	End Plate, Track Control Arm	-	4
066	A075W2045F	Bolt, M8 x 80, end plate to raft	-	8
067	A075W4024Z	Washer, M10 x 20, end plate to raft	-	8
068	A075W2073F	Bolt, M12 x 90, Track Control Arm & TCA strut to raft	-	4
069	A075W4028Z	Washer, M12 x 24," Track Control Arm & TCA strut to raft	-	4
070	A100C6019F	Nut, Nyloc, M12, Track Control Arm & TCAstrut to raft	-	2
071	A075W7024F	Socket Screw, M8 x 25, Track Control Arm to TCA strut	-	4
072	A075W4020Z	Washer, M8 x 16, Track Control Arm to TCA strut	-	8
073	A100C6022F	Nut, M8, kaylock, Track Control Arm to TCA strut	-	4
074	A100W7065F	Socket Screw, M10 x 90, Track Control Arm to TCA strut	-	2
075	A100W7088F	Socket Screw, M10 X 110,Track Control Arm to TCA strut	-	2
076	A075W4024Z	Washer, MIO x 20, Track Control Arm to TCA strut	-	8
077	A089W3082F	Nut, MIO, kaylock Track Control Arm to TCA strut	-	4
080	D100C6005F	Bush, damper yoke	-	2

081	A100C0040F	Yoke, front damper	-	4	
082	A082W7053F	Socket Screw, M8 x 35, yoke to damper	-	8	Already have
083	A100C6022F	Nut, MB, kaylock, yoke to damper	-	8	Already have
085	F100C0043F	Spring/Damper Assembly, front, Non-Turbo	Yellow/yellow/white colour code - Prior to VIN R6001	2	
085	F100C0077F	Spring/Damper Assembly, front, except USA Turbo	Yellow/yellow/green colour code - Prior to VIN R6001	2	
085	H100C0077J	Spring/Damper Assembly, front	Yellow/yellow/green colur code - Fom VIN R6001	2	
085	C100C0123F	Spring/Damper Assembly, front, USA Turbo	Blue/yellow/orange colour code - Prior to VIN R6001	2	
086	B100C0086F	Spring, front, except USA Turbo	Yellow/yellow/green colour code - Prior to VIN R6001	2	2
086	B100C0086F	Spring, front	Yellow/yellow/green colur code - Fom VIN R6001	2	If above aren't available
086	A100C0087H	Spring, front, Non-Turbo	Yellow/yellow/white colour code - Prior to VIN R6001	2	
086	A100C0126H	Spring, front, USA Turbo	Blue/yellow/orange colour code - Prior to VIN R6001	2	
087	B100C6029H	Damper, front, USA Turbo	Prior to VIN R6001	2	
087	F100C6015F	Damper, front	Fom VIN R6001	2	If above aren't available
087	C100C6015H	Damper, front, Non-Turbo	R/B F100C6015F (IN PAIRS) - Prior to VIN R6001	2	
087	C100C6015H	Damper, front, except USA Turbo	R/B F100C6015F (IN PAIRS) - Prior to VIN R6001	2	2 - AVO
088	A100C6013H	Gaiter, front damper		2	2
089	B10pC6012F	Fixings Kit, front damper mounting	-	2	Should be included with AVO damper
089a	A100C0151F	Connical Washer, front damper mounting	repalces lower washer from kit B100C6012F - Fom VIN R6001	2	Should be included with AVO damper?
090	A100C0075F	Mounting Assembly, damper top plate	-	2	2
091	A100C0038F	Isolator, spring/damper to chassis	Not for USA Turbo	2	2
091	A100C0121H	Isolator, spring/damper to chassis	Valid for USA Turbo - Prior to VIN R6001	2	
093	A075W4020Z	Washer, flat, M8 x 16, front damper upper fix	-	6	Already have
094	A075W3010Z	Nut, Nyloc, M8, front damper upper fix	-	6	Already have
095	B100C6008F	Balljoint, anti-roll bar to Track Control Arm	-	2	
096	A075W4028Z	Washer, M12 x 24, balljoint to yoke	-	2	
097	A100W3109F	Nut, M12, Nyloc, balljoint to yoke	-	2	
098	A075W4024Z	Washer, M10 x 20, balljoint to anti-roll bar	-	2	
099	A089W3082F	Nut, M10, kaylock, balljoint to anti-roll bar	-	2	