

ECOCRAWLER FITMENT GUIDE

What you need to know to complete your EcoCrawler selection													
Vehicle	Generation	Year Range	Motor	Auto/Man	Transmission	2WD/4WD	Transfer Case	Case Pattern	Shift Mechanism	Transfer Case OK behind EcoCrawler	Transfer Case OK as Donor for EcoCrawler		
4 Runner	1st GEN	1984-1987	22R										
			22R-TE										
			22R-E										
		NOT COMPATIBLE WITH RF1A											
	1988-1989	22R-E	M/T	G58* ADD		4WD		VF1A	VF1	Spade - Forward Shift	With Modifications	Yes	
				A340H	4WD							No	No
		3VZ-FE	M/T	R150F*		4WD		VF1A	VF1	Spade - Top Shift	Yes	Yes	
				A340H	4WD							No	No
	22R-E	M/T	W56			4WD					No	No	
				NOT COMPATIBLE									
	2nd GEN	1990-1995	22R-E	M/T	G58 / W58		4WD	VF1A	VF1	Spade - Forward Shift	With Modifications	Yes	
					A340F	4WD							Yes
		3VZ-FE	M/T	A340H	R150F		4WD	VF1A	VF1	Spade - Top Shift	Yes	Yes	
					A340H	4WD							No
	NOT COMPATIBLE												
	3rd Gen	1996-2000	3RZ-FE	M/T	W59		4WD	VF2 (Limited VF3AM 1999+)	VF2	Spade - Top Shift	Yes	Yes	
					A340F	4WD							Yes
			5VZ-FE	M/T	R150F		4WD		VF2 (Limited VF3AM 1999+)	VF2	Spade - Top Shift	Yes	Yes
					A340E	4WD		VF3AM Limited One-Touch 2-4	VF2	Ball - Top Shift	With Modifications	Requires Additional Parts	
			A340F	A/T	A340F			4WD	VF2 (Limited VF3AM 1999+)	VF2	Spade - Top Shift	Yes	Yes
NOT COMPATIBLE													
2001-2002	5VZ-FE	A/T	A340F			4WD	VF3AM Limited One-Touch 2-4	VF2	Ball - Top Shift	With Modifications	Requires Additional Parts		
				NOT COMPATIBLE									
4th GEN	2003-2004	1GR-FE	A/T	A340F		4WD	VF4AM (Torsen Type)	VF4	Electric Shift - Multi Mode 4WD	Yes	No		
				A750F	4WD		VF4BM (Torsen Type)	VF4	Electric Shift - Full Time 4WD	Yes	No		
		2005-2009	1GR-FE	A/T	A750F		4WD	VF4AM (Torsen Type)	VF4	Electric Shift - Multi Mode 4WD	Yes	No	
					A750F	4WD		VF4BM (Torsen Type)	VF4	Electric Shift - Full Time 4WD	Yes	No	
5th GEN	2010	2TR-FE	A/T	A343F		4WD	VF2A	VF4	Spade - Top Shift	Yes	Yes		
				A750F	4WD		VF2A	VF4	Spade - Top Shift	Yes	Yes		
	2010+	1GR-FE	A/T	A750F		4WD	VF4AM (Torsen Type)	VF4	Electric Shift - Multi Mode 4WD	Yes	No		
				A750F	4WD		VF4BM (Limited Model Only, Torsen Type)	VF4	Electric Shift - Full Time 4WD	Yes	No		

** See next page for details on cases with "With modifications" and "Requires Additional Parts" tags.

Vehicle	Generation	Year Range	Motor	Auto/Man	Transmission	2WD/4WD	Transfer Case	Case Pattern	Shift Mechanism	Transfer Case OK behind EcoCrawler	Transfer Case OK as Donor for EcoCrawler
Pickup	T100	1993	22R-E	M/T	G58	4WD	VF1A	VF1	Spade - Forward Shift	With Modifications	Yes
				A/T	A340F	4WD	VF1A	VF1	Spade - Forward Shift	With Modifications	Yes
			3VZ-FE	M/T	R150F	4WD	VF1A	VF1	Spade - Top Shift	Yes	Yes

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Vehicle	Generation	Year Range	Motor	Auto/Man	Transmission	2WD/4WD	Transfer Case	Case Pattern	Shift Mechanism	Transfer Case OK behind EcoCrawler	Transfer Case OK as Donor for EcoCrawler			
Tacoma	1st GEN	1995.5-2004	3RZ-FE	M/T	W59	4WD	VF2	VF2	Spade - Top Shift	Yes	Yes			
				A/T	A340F	4WD	VF2	VF2	Spade - Forward Shift	With Modifications	Yes			
			5VZ-FE	M/T	R150F		4WD		VF2	VF2	Spade - Top Shift	Yes	Yes	
					A340F	4WD							Yes	Yes
			A340F	A/T	A340F			4WD	VF2	VF2	Ball - Top Shift	Yes	Yes	
						NOT COMPATIBLE								
	2nd GEN	2005-2015	2TR-FE	M/T	R155F		4WD	VF2BM	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts		
					A340F	4WD		VF2BM	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts		
			1GR-FE	M/T	RA60F		4WD	VF2BM *different input retainer + no coupler	VF4	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts	
					A750F	4WD		VF2BM	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts		
			2016+	2TR-FE	M/T	R156F		4WD	VF2CM	VF4	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts
						A340F	4WD		VF2CM	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts	
2GR-FKS	M/T	A340F	RC62F		4WD	VF2CM *different input retainer + no coupler	VF4	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts			
			A340F	4WD		VF2CM	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts				

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Tundra	1st GEN	2000-2004	5VZ-FE	M/T	R150F	4WD	VF2A	VF2	Spade - Top Shift	Yes	Yes				
				A/T	A340F	4WD	VF2A	VF2	Spade - Forward Shift	With Modifications	Yes				
			2UZ-FE	A/T	A340F	4WD	VF2BM	VF2	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts				
	2nd GEN	2005-2006	2UZ-FE	A/T	A750F		4WD	VF2BM	VF4	Electric Shift (2-4 and HI-LO)	Yes	Requires Additional Parts			
					2007-2013	1GR-FE	A/T	AB60F		4WD	JF1A	DATA TO BE ADDED	Electric Shift (2-4 and HI-LO)	DATA TO BE ADDED	DATA TO BE ADDED
					2007-2009			2UZ-FE	A/T	AB60F	4WD	JF1A	DATA TO BE ADDED	Electric Shift (2-4 and HI-LO)	DATA TO BE ADDED
					2010-2019	1UR-FE					DATA TO BE ADDED	DATA TO BE ADDED	Electric Shift (2-4 and HI-LO)	DATA TO BE ADDED	DATA TO BE ADDED
2007+	3UR-FE	A/T	AB60F	4WD	JF1A	DATA TO BE ADDED	DATA TO BE ADDED	Electric Shift (2-4 and HI-LO)	DATA TO BE ADDED	DATA TO BE ADDED					

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Vehicle	Generation	Year Range	Motor	Auto/Man	Transmission	2WD/4WD	Transfer Case	Case Pattern	Shift Mechanism	Transfer Case OK behind EcoCrawler	Transfer Case OK as Donor for EcoCrawler
FJ Cruiser	1st GEN	2006+	1GR-FE	M/T	RA61F	4WD	VF4B (Torsen Manual Shift)	VF4	Spade - Top Shift	Yes	No
				A/T	A750F	4WD	VF2A	VF4	Spade - Top Shift	Yes	Yes

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Vehicle	Generation	Year Range	Motor	Auto/Man	Transmission	2WD/4WD	Transfer Case	Case Pattern	Shift Mechanism	Transfer Case OK behind EcoCrawler	Transfer Case OK as Donor for EcoCrawler
Lexus	GX470 (J120)	2003-2009	2UZ-FE	A/T	A750F		VF4BM (one off with manual HI-Lo)	VF4	Ball - Forward Shift	No	No
					A760F		VF4BM	VF4	Electric	Yes	No
	GX460 (J150)	2010+	1UR-FE	A/T	A760F		VF4BM	VF4	Electric	Yes	No
					A343F						
	LX450 (J80)	1996-1997	1FZ-FE	A/T	A343F						
LX470 (J100)	1998-2007	2UZ-FE	A/T	A750F							
DATA TO BE ADDED											

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Vehicle	Generation	Year Range	Motor	Auto/Man	Transmission	2WD/4WD	Transfer Case	Case Pattern	Shift Mechanism	Transfer Case OK behind EcoCrawler	Transfer Case OK as Donor for EcoCrawler	
Sequoia	1st GEN	2001-2004	2UZ-FE	A/T	A340F		VF4BM	VF4	Electric	DATA TO BE ADDED	DATA TO BE ADDED	
					A750F		VF4BM	VF4	Electric	DATA TO BE ADDED	DATA TO BE ADDED	
	2nd Gen	2008-2009	2UZ-FE	A/T								
					3UR-FE	A/T						
							DATA TO BE ADDED					
2010+	1UR-FE	A/T										
			3UR-FE	A/T								

** See next page for details on cases with "With modifications" and "Requires Additional Parts" tags.

Transfer Case	Case Pattern	Shift Mechanism	"With Modifications" Requirements
VF1A	VF1	Spade - Forward Shift	The forward shift rails need to be replaced with top shift rails. Top shift rails can be sourced from Toyota or from a donor top shift VF1 transfer case.
VF3AM Limited One-Touch 2-4	VF2	Ball - Top Shift	The VF3AM transfer case is 3" longer than the VF2. This case interferes with the gas tank if it is behind the EcoCrawler. Modifications to the gas tank and cross member are required.
VF2	VF2	Spade - Forward Shift	The forward shift rails need to be replaced with top shift rails. Top shift rails can be sourced from Toyota or from a donor top shift VF2 transfer case.
VF2A	VF2	Spade - Forward Shift	The forward shift rails need to be replaced with top shift rails. Top shift rails can be sourced from Toyota or from a donor top shift VF2 transfer case.

Transfer Case	Case Pattern	Shift Mechanism	"Requires Additional Parts" Requirements
VF3AM Limited One-Touch 2-4	VF2	Ball - Top Shift	The VF3AM transfer case is from the Limited trim package and offered active AWD via an electric center diff lock. These vehicles had built-in Shift Collar Alignment hubs. A splined model needs to be sourced or purchased. Toyota part numbers: Hub, Transfer Clutch (Shift Collar Alignment) 36237-35030 Ring, Shaft Snap 90520-39004
VF2BM/VF2CM	VF2	Electric Shift (2-4 and HI-LO)	These electric shift transfer cases require a shift fork and the low range connection for the planetary assembly sourced or purchased. Toyota part numbers: Transfer Gear Shift Fork No. 2 36312-35040 Transfer Low Planetary Spline 36284-35021
VF4	VF2	Electric Shift (2-4 and HI-LO)	These electric shift transfer cases require a shift fork and the low range connection for the planetary assembly sourced or purchased. Toyota part numbers: Transfer Gear Shift Fork No. 2 36312-35040 Transfer Low Planetary Spline 36284-35021

If your vehicle has a manual transmission, or want to increase the pressure of the shifting detent for the EcoCrawler, we recommend using a shift detent spring from an electric shift transfer case. This spring is found in either shift fork, or can be sourced from Toyota.

Toyota part number:
Compression Spring, Electric Shift 90501-18091

Donor Parts Required for the EcoCrawler

