





# Toyota U140, U240 Series (FWD 4-Speed)

VEHICLE MODEL	YEARS	ENGINE	DRIVE TRAIN	TRANS. TYPE
<b>LEXUS:</b>				
ES300 .....	1999-01	All	FWD	<b>U140E</b>
RX300 .....	1999-03	All	FWD/4WD	<b>U140E/F</b>
<b>PONTIAC :</b>				
Vibe .....	2003-04	1.8 Litre DOHC	FWD	<b>U240E</b>
<b>TOYOTA:</b>				
Camry .....	2002-04	2.4 Litre	FWD	<b>U241E</b>
Camry .....	2002-03	3.0 Litre	FWD	<b>U140E</b>
Celica GTS .....	2000-05	1.8 Litre	FWD	<b>U240E</b>
Highlander .....	2001-07	2.4 Litre	FWD	<b>U241E</b>
Highlander .....	2001-03	2.4 & 3.0 Litre	AWD	<b>U140F</b>
Highlander .....	2004-07	2.4 Litre	AWD	<b>U140F</b>
Highlander .....	2001-03	3.0 Litre	FWD	<b>U140E</b>
Matrix .....	2003-06	1.8 Litre	FWD	<b>U240E</b>
Matrix .....	2009	2.4 Litre	AWD	<b>U140F</b>
RAV4 .....	2000-08	2.0/2.4 Litre	FWD	<b>U241E</b>
RAV4 .....	2000-08	2.0/2.4 Litre	AWD	<b>U140F</b>
SCION tC .....	2005-09	2.4 Litre	FWD	<b>U241E</b>
SCION xB .....	2008-09	2.4 Litre	FWD	<b>U241E</b>
Solara .....	2002-05	2.4 Litre	FWD	<b>U241E</b>

**UNIT IDENTIFICATION:** Two-Piece case with bottom pan (18 Bolts) and rear cover plate (11 Bolts). It has no T.V. Cable and is computer-controlled.

IIL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>TECHNICAL MANUALS</b>				
---	<b>TMU140E/F</b>		Technical Manual (FWD) ..... <b>OEM Manual</b> .....	1999-On
---	<b>TMU240E</b>		Technical Manual (FWD) ..... <b>OEM Manual</b> .....	2000-On
---	<b>TMU241E</b>		Technical Manual (FWD) ..... <b>OEM Manual</b> .....	2000-On
<b>REBUILDER BOX KITS</b>				
---	<b>K1400-S</b> <sup>1,2</sup>		Master Kit (w/o Steels) ..... <b>U140E/F</b> .....	1999-On
---	<b>K1400A-S</b> <sup>1</sup>		Master Kit (w/o Steels) ..... <b>U240/241E</b> .....	2000-On
<b>Steel Plate Sub-Kits:</b>				
---	<b>K1400-9</b>		Steel Plate Kit ..... <b>U140E/F</b> .....	1999-On
---	<b>K1400A-9</b>		Steel Plate Kit ..... <b>U240/241E</b> .....	2000-On
<sup>1</sup> Kits <b>do not</b> include the molded rubber pistons, please order <b>K14900-4</b> for U140E/F or <b>K14900A-4</b> for U240/241E. <sup>2</sup> Kits <b>do not</b> include axle seals or components for 4WD units, please order <b>K14900T</b> separately.				
<b>OVERHAUL KITS AND GASKET SETS</b>				
---	<b>K14900</b> <sup>1,2</sup>		Overhaul Kit ..... <b>U140E/F</b> .....	1999-On
---	<b>K14900A</b> <sup>1,2</sup>		Overhaul Kit ..... <b>U240/241E</b> .....	1999-On
---	<b>K14900T</b>		Overhaul Kit ( <b>Transfer Case Section</b> ) ..... <b>U140F</b> .....	1999-On
---	<b>K14900-1</b>		Gasket and Rubber Kit ..... <b>All</b> .....	1999-On
<b>GASKET AND RUBBER COMPONENTS</b>				
1E	<b>14170</b>	1	Pan Gasket.....	1999-On
3B	<b>14100</b>	1	Pump O'Ring.....	1999-On

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Toyota U140 / 240

ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>METAL CLAD SEALS</b>				
10B	<b>67526V</b>	1	Front Pump (Viton) ..... All .....	1999-On
11A	<b>83551</b>	1	Right Axle (2WD)..... U140E .....	1999-On
11A	<b>14551</b>	1	Right Axle (AWD - 62x74x8.5mm)..... U140F .....	1999-06
<b>11A</b>	<b>14551C</b>	<b>1</b>	<b>Right Axle (AWD - 55x74x10mm) ..... U140F .....</b>	<b>2007-On</b>
11A	<b>81551</b>	1	Right Axle (Exc. RAV4)..... U240/1E .....	1999-On
11A	<b>14551A</b>	1	Right Axle (RAV4 - 40x64x9mm)..... U241E .....	2000-On
12A	<b>83552A</b>	1	Left Axle ..... U140E/F .....	1999-On
12A	<b>81551</b>	1	Left Axle (Exc. RAV4)..... U240/1E .....	1999-On
12A	<b>14551B</b>	1	Left Axle (RAV4 - 50x68x9mm) ..... U241E .....	2000-On
<b>11A</b>	<b>14553C</b>	<b>1</b>	<b>Differential, Right Inner..... U140F .....</b>	<b>2007-On</b>
13E	<b>68504</b>	1	Manual Lever Shaft..... All .....	1999-On
<b>SEALING RINGS</b>				
---	<b>K14901</b>	1	Sealing Ring Kit.....	1999-On
<b>CLUTCH PLATES</b>				
20A	<b>14308</b>	4	Underdrive # 1 Friction (U140E/F) ..... 40T, .071" - 4.90" O.D. ....	1999-On
20A	<b>14308A</b>	3	Underdrive # 1 Friction (U240/241E) ..... 40T, .073" - 4.50" O.D. ....	2000-On
21A	<b>14309</b>	4	Underdrive # 1 Steel (U140E/F) ..... 40T, .079" - 3.89" I.D. ....	1999-On
21A	<b>14309A</b>	3	Underdrive # 1 Steel (U240/241E) ..... 40T, .075" - 3.57" I.D. ....	2000-On
23A	<b>14310</b>	4	Underdrive # 2 Friction (U140E/F) ..... 28T, .071" - 4.63" O.D. ....	1999-On
23A	<b>14310A</b>	3	Underdrive # 2 Friction (U240/241E) ..... 28T, .073" - 4.43" O.D. ....	2000-On
24A	<b>14311</b>	4	Underdrive # 2 Steel (U140E/F) ..... 11T, .071" - 3.66" I.D. ....	1999-On
24A	<b>14311A</b>	3	Underdrive # 2 Steel (U240/241E) ..... 11T, .071" - 3.52" I.D. ....	2000-On
26B	<b>14304</b>	4-6	Forward Friction ..... 40T, .071" - 5.38" O.D. ....	1999-On
27B	<b>14305</b>	5-8	Forward Steel..... 40T, .071" - 4.50" I.D. ....	1999-On
29C	<b>14321</b>	5-7	1st/Reverse Friction ..... 40T, .071" - 6.40" O.D. ....	1999-On
30C	<b>14322</b>	5-7	1st/Reverse Steel ..... 12T, .071" - 5.64" I.D. ....	1999-On
32C	<b>14306</b>	4	2nd Brake Friction ..... 40T, .071" - 6.70" O.D. ....	1999-On
33C	<b>14307</b>	4	2nd Brake Steel ..... 12T, .078" - 5.64" I.D. ....	1999-On
36E	<b>14302</b>	3-4	Direct Friction ..... 40T, .071" - 6.17" O.D. ....	1999-On
37E	<b>14303</b>	3-4	Direct Steel..... 40T, .117" - 5.53" I.D. ....	1999-On
---	<b>K1400-F</b>	<b>1</b>	<b>Friction Module (U140).....</b>	<b>1999-On</b>
---	<b>K1400A-F</b>	<b>1</b>	<b>Friction Module (U240).....</b>	<b>2000-On</b>
<b>BUSHINGS</b>				
---	<b>K14980</b>	1	Bushing Assortment Kit.....	1999-On
---	<b>K14980Y</b>	1	Bushing Assortment Kit (Omega) .....	1999-On
40B	<b>67005</b>	1	Pump .....	1999-On
<b>41B</b>	<b>67002C</b>	<b>1</b>	<b>Stator (Front) .....</b>	<b>1999-On</b>
<b>THRUST WASHERS AND BEARINGS</b>				
---	<b>K14941</b>	1	Thrust Washer and Bearing Kit (Geartrain Area) .....	1999-On
50D	<b>14404</b>	2	Rear Planet to Sprag Race/Sprag Race to Rear Sun Gear Washer (2-Tab Plastic) .....	1999-On
<b>TRANSMISSION OIL FILTERS</b>				
60E	<b>14600<sup>3</sup></b>	1	Oil Filter..... U140E/F, U240/241E .....	1999-On
61E	<b>ATK-218</b>	1	Oil Filter Kit..... U140E/F, U240/241E .....	1999-On
<sup>3</sup> Please See Filter Pictures on Page 13.11-1 for Visual Identification.				

# Toyota U140, U240 Series (FWD 4-Speed) - Cont'd.

ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>MOLDED RUBBER PISTONS</b>				
---	<b>K14900-4</b>		Piston Kit ..... <b>U140E/F</b> .....	1999-On
---	<b>K14900-4BL</b>		<b>Piston Kit (HP Blue)</b> ..... <b>U140E/F</b> .....	<b>1999-On</b>
---	<b>K14900A-4</b>		Piston Kit ..... <b>U240/241E</b> .....	2000-On
---	<b>K14900A-4BL</b>		<b>Piston Kit (HP Blue)</b> ..... <b>U240/241E</b> .....	<b>2000-On</b>
65A	<b>K14840</b>	1	Underdrive Piston Set ..... <b>U140E/F</b> .....	1999-On
65A	<b>K14840A</b>	1	Underdrive Piston Set ..... <b>U240/241E</b> .....	2000-On
---	<b>14841</b>	1	Forward Piston ..... <b>U240/1E</b> .....	1999-On
---	<b>14847E</b>	<b>1</b>	<b>Forward Balance Piston</b> ..... <b>U240/1E</b> .....	<b>1999-On</b>
67E	<b>K14843</b>	1	Direct Clutch Piston Set ..... <b>All</b> .....	2000-On
<b>SPRAGS</b>				
70A	<b>14813</b>	1	Underdrive Sprag ..... <b>U140E/F</b> .....	1999-On
70A	<b>14813A</b>	1	Underdrive Sprag ..... <b>U240/1E</b> .....	2000-On
71D	<b>14814</b>	1	Intermediate Sprag ..... <b>U140E/F, U240/1E</b> .....	1999-On
<b>SHIFT ENHANCEMENTS</b>				
---	<b>K14944</b>	1	Shift Kit ( <b>TransGo</b> ) ..... 1999-On <b>Corrects/Prevents/Reduces:</b> Shuttle Shifts, Neutrals on 2-3 and TCC Slip Codes.	
---	<b>ST14944</b>	1	Shift Correction Package ( <b>Superior/TransLab, Valve Body Upgrade Kit</b> ) ..... 1999-On	
---	<b>U140E-241E-ZIP</b>		Zip-Kit ( <b>Sonnax, Drop-in Components - No Tools Required</b> ) ..... 1999-On	
---	<b>K14889</b>	1	Boost Valve Assembly ..... 1999-On <b>Addresses:</b> Insufficient Line Rise to Drive Ranges, High Reverse Pressure and Soft Shifts.	
---	<b>K14887</b>	1	Lockup Control Plunger Valve and Sleeve Kit ..... 1999-On <b>Addresses:</b> TCC apply and Release Issues, Converter Codes and Burned Converters.	
---	<b>K14989</b>	1	Oversized Pressure Regulator & Boost Valve Kit ..... 1999-On <b>Addresses:</b> Soft or Harsh Shifts Caused by Low or High Line Pressure. Use w/K14589 Tool Kit.	
---	<b>K14886</b>	1	Oversized Secondary Pressure Regulator & Boost Valve Kit ..... 1999-On <b>Addresses:</b> Converter Apply/Release Problems, Harsh Lock-up. Burned Converters. Use w/K14586 Tool Kit.	
---	<b>K14884</b>	1	Clutch Apply Control Plunger Valve and Sleeve Kit ..... 1999-On <b>Addresses:</b> Clutch Failure, Burned Clutches and Soft Shift Complaints.	
---	<b>K14885</b>	1	Solenoid Modulator Valve Kit ..... 1999-On <b>Addresses:</b> Harsh/Flare Upshifts, TCC Slip or RPM Cycling and Low Cooler Flow. Use with K14585 Tool Kit.	
---	<b>K14788</b>	1	Sure-Seal VB End Plug Kit ( <b>Superior</b> ) ..... 1999-On <b>Addresses:</b> OE End Plugs Leak Causing Low Circuit Pressures/Erratic Shifts/Codes.	
---	<b>K14780W</b>	1-2	Accumulator Piston Kit ( <b>Sonnax</b> ) ..... Enough for 1 Accumulator Bore ..... 1999-On	
---	<b>ST14780</b>	1	Accumulator Piston Kit ( <b>Superior</b> ) ..... Enough for 3 Units ..... 1999-On <b>Addresses:</b> Delayed Engagements, Slipping and Burned Clutches.	
<b>ELECTRONIC COMPONENTS</b>				
<b>Note : When ordering a Solenoid, please add the (-R) suffix for a Remanufactured Unit, if Desired.</b>				
79D	<b>14869</b>	1	Wiring Harness ..... Except U240E, For Large Body Solenoids ..... 1999-On	
79D	<b>14869B</b>	1	Wiring Harness ..... Except U240E, For Small Body Solenoids ..... 1999-On	
79D	<b>14869A</b>	1	Wiring Harness ..... <b>U240E</b> ..... 2000-On	
80E	<b>14871</b>	1	Shift Solenoid ( <b>SL1 or SSA</b> ) ..... Large Body (1.106" O.D.), White Connector ..... 1999-On	
80E	<b>14871B</b>	1	Shift Solenoid ( <b>SL1 or SSA</b> ) ..... Small Body (.835" O.D.) ..... 1999-On	
81E	<b>14872</b>	1	Shift Solenoid ( <b>SL2 or SSB</b> ) ..... Large Body (1.106" O.D.), Neutral Connector ..... 1999-On	
81E	<b>14872B</b>	1	Shift Solenoid ( <b>SL2 or SSB</b> ) ..... Small Body (.835" O.D.) ..... 1999-On	
82E	<b>14873</b>	1	Shift Solenoid ( <b>S4 or SSD</b> ) ..... Large Connector, Black Connector ..... 1999-On	
82E	<b>14873B</b>	1	Shift Solenoid ( <b>S4 or SSD</b> ) ..... Small Connector, Black Connector ..... 2000-On	
83E	<b>14870</b>	1	TCC Solenoid ( <b>DSL or SSE</b> ) ..... Brown Connector ..... 1999-On	
84E	<b>14879</b>	1	Line Pressure Solenoid ( <b>SLT</b> ) ..... Large Body (1.106" O.D.), White Connector ..... 1999-On	
84E	<b>14879B</b>	1	Line Pressure Solenoid ( <b>SLT</b> ) ..... Small Body (.835" O.D.) ..... 1999-On	
---	<b>K14879-R</b>	1	Solenoid Kit ( <b>Includes Three Large Body Linears, SL1, SL2 &amp; SLT - Reman</b> ) ..... 1999-On	
---	<b>K14879B-R</b>	1	Solenoid Kit ( <b>Includes Three Small Body Linears, SL1, SL2 &amp; SLT - Reman</b> ) ..... 1999-On	
85C	<b>14875</b>	1-2	Input & Output Speed Sensors ..... 1999-On	

# Toyota U140, U240 Series (FWD 4-Speed) - Cont'd.

ILL. NO.	PART NUMBER	PER CAR	DESCRIPTION	YEARS
<b>HARD PARTS</b>				
<b>Note : When ordering Hard Parts, please add the appropriate suffix : (-R) Reman, (-U) Used, (-A) Aftermarket.</b>				
105A	<b>14834</b>	1	Underdrive Planetary..... <b>U140E/F</b> .....	1999-On
105A	<b>14834A</b>	1	Underdrive Planetary..... <b>U240/1E</b> .....	2000-On
107A	<b>14806</b>	1	Underdrive Drum..... <b>U140E/F</b> .....	1999-On
107A	<b>14806A</b>	1	Underdrive Drum..... <b>U240/1E</b> .....	2000-On
118B	<b>K14895</b>	1	Pump Assembly ( <b>Gear Style</b> ) .....	1999-On
118B	<b>K14895A</b>	1	Pump Assembly ( <b>Rotor Style</b> ) .....	1999-On
120B	<b>14801</b>	1	Forward Drum ( <b>6-Clutch</b> ) ..... <b>U140E</b> .....	1999-On
120B	<b>14801A</b>	1	Forward Drum ( <b>4-Clutch</b> ) ..... <b>U240/1E</b> .....	2000-On
123B	<b>14804</b>	1	Forward Clutch Hub .....	1999-On
---	<b>K14835</b>	1	Geartrain ( <b>4-Pinion</b> ) ..... ( <b>Includes Ill. # 130, 131, 135, 136, 137, 143</b> ) .....	1999-On
---	<b>K14835A</b>	1	Geartrain ( <b>3-Pinion</b> ) ..... ( <b>Includes Ill. # 130, 131, 135, 136, 137, 143</b> ) .....	1999-On
---	<b>K14941</b>	1	Thrust Washer and Bearing Kit ( <b>Geartrain Area</b> ) .....	1999-On
130C	<b>14859</b>	1	Front Ring Gear.....	1999-On
131C	<b>14858</b>	1	Front Planetary Hub .....	1999-On
---	<b>K14833</b>	1	Front Planetary Kit ( <b>4-Pinion</b> ) ..... <b>Includes ill.# 130, 131, 135, 136</b> .....	1999-On
135D	<b>14833</b>	1	Front Planetary ( <b>4-Pinion</b> ) .....	1999-On
135D	<b>14833A</b>	1	Front Planetary ( <b>3-Pinion</b> ) .....	1999-On
136D	<b>14860</b>	1	Front Sun Gear.....	1999-On
137D	<b>14831</b>	1	Rear Planetary ( <b>4-Pinion</b> ) .....	1999-On
137D	<b>14831A</b>	1	Rear Planetary ( <b>3-Pinion</b> ) .....	1999-On
138D	<b>14810</b>	1	Drive Shell .....	1999-On
143E	<b>14865</b>	1	Rear Sun Gear .....	1999-On
147E	<b>14803</b>	1	Direct Drum ( <b>4-Clutch</b> ) .....	1999-On
150E	<b>70-113A</b>	1	Reman Valve Body ( <b>5 Solenoids, No Casting #, 3 Seals to Case, w/Lube Hole</b> ) .....	1999-On
150E	<b>70-113B</b>	1	Reman Valve Body ( <b>5 Solenoids, No Casting #, 2 Seals to Case, w/No Lube Hole</b> ) .....	1999-On
150E	<b>70-113E</b>	1	Reman Valve Body ( <b>5 Small Body (.835") Solenoids, No Casting #, 2 Seals to Case</b> ) .....	1999-On
---	<b>T2700AC</b>	<b>1</b>	<b>Output Shaft Socket.....</b>	<b>1999-On</b>

**Notes:**