





Toyota U140, U240 Series (FWD 4-Speed)

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

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
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TECHNICAL MANUALS

---	TMU140E/F		Technical Manual (FWD)	OEM Manual	1999-On
---	TMU240E		Technical Manual (FWD)	OEM Manual	2000-On
---	TMU241E		Technical Manual (FWD)	OEM Manual	2000-On

REBUILDER BOX KITS

---	K1400-S ^{1,2}		Master Kit (w/o Steels)	U140E/F	1999-On
---	K1400A-S ¹		Master Kit (w/o Steels)	U240/241E	2000-On

Steel Plate Sub-Kits:

---	K1400-9		Steel Plate Kit	U140E/F	1999-On
---	K1400A-9		Steel Plate Kit	U240/241E	2000-On

¹ Kits **do not** include the molded rubber pistons, please order **K14900-4** for U140E/F or **K14900A-4** for U240/241E.

² Kits **do not** include axle seals or components for 4WD units, please order **K14900T** separately.

OVERHAUL KITS AND GASKET SETS

---	K14900 ^{1,2}		Overhaul Kit	U140E/F	1999-On
---	K14900A ^{1,2}		Overhaul Kit	U240/241E	1999-On
---	K14900T		Overhaul Kit (Transfer Case Section)	U140F	1999-On
---	K14900-1		Gasket and Rubber Kit	All	1999-On

GASKET AND RUBBER COMPONENTS

1E	14170	1	Pan Gasket	1999-On
3B	14100	1	Pump O'Ring	1999-On

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METAL CLAD SEALS				
10B	67526V	1	Front Pump (Viton) All	1999-On
11A	83551	1	Right Axle (2WD) U140E	1999-On
11A	14551	1	Right Axle (AWD) U140F	1999-On
11A	81551	1	Right Axle U240/1E	1999-On
11A	14551A	1	Right Axle (40x64x9mm) U241E	2000-On
12A	83552A	1	Left Axle U140E	1999-On
12A	81551	1	Left Axle U240/1E	1999-On
12A	14551B	1	Left Axle (50x68x9mm) U241E	2000-On
13E	68504	1	Manual Lever Shaft All	1999-On
SEALING RINGS				
---	K14901	1	Sealing Ring Kit	1999-On
CLUTCH PLATES				
20A	14308	4	Underdrive # 1 Friction (U140E/F) 40T, .071" - 4.90" O.D.	1999-On
20A	14308A	3	Underdrive # 1 Friction (U240/241E) 40T, .073" - 4.50" O.D.	2000-On
21A	14309	4	Underdrive # 1 Steel (U140E/F) 40T, .079" - 3.89" I.D.	1999-On
21A	14309A	3	Underdrive # 1 Steel (U240/241E) 40T, .075" - 3.57" I.D.	2000-On
23A	14310	4	Underdrive # 2 Friction (U140E/F) 28T, .071" - 4.63" O.D.	1999-On
23A	14310A	3	Underdrive # 2 Friction (U240/241E) 28T, .073" - 4.43" O.D.	2000-On
24A	14311	4	Underdrive # 2 Steel (U140E/F) 11T, .071" - 3.66" I.D.	1999-On
24A	14311A	3	Underdrive # 2 Steel (U240/241E) 11T, .071" - 3.52" I.D.	2000-On
26B	14304	6	Forward Friction	40T, .071" - 5.38" O.D. 1999-On
27B	14305	8	Forward Steel	40T, .071" - 4.50" I.D. 1999-On
29C	14321	5-7	1st/Reverse Friction	40T, .071" - 6.40" O.D. 1999-On
30C	14322	5-7	1st/Reverse Steel	12T, .071" - 5.64" I.D. 1999-On
32C	14306	4	2nd Brake Friction	40T, .071" - 6.70" O.D. 1999-On
33C	14307	4	2nd Brake Steel	12T, .078" - 5.64" I.D. 1999-On
36E	14302	4	Direct Friction	40T, .071" - 6.17" O.D. 1999-On
37E	14303	4	Direct Steel	40T, .117" - 5.53" I.D. 1999-On
BUSHINGS				
---	K14980	1	Bushing Assortment Kit	1999-On
---	K14980Y	1	Bushing Assortment Kit (Omega)	1999-On
40B	67005	1	Pump	1999-On
THRUST WASHERS AND BEARINGS				
---	K14941	1	Thrust Washer and Bearing Kit (Geartrain Area)	1999-On
50D	14404	2	Rear Planet to Sprag Race/Sprag Race to Rear Sun Gear Washer (2-Tab Plastic) ...	1999-On
TRANSMISSION OIL FILTERS				
60E	14600 ³	1	Oil Filter U140E/F, U240/241E	1999-On
61E	ATK-218	1	Oil Filter Kit U140E/F, U240/241E	1999-On
³ Please See Filter Pictures on Page 13.11-1 for Visual Identification.				

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

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

Notes: