

TRANSMISSION SERVICING - A/T

Article Text

1988 Toyota MR2

For Rse 555 Main Street Clarksville Va 22901

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ARTICLE BEGINNING

1988 AUTOMATIC TRANSMISSION SERVICING

Toyota

Camry, Celica, Corolla, Cressida, MR2, Supra, Tercel,
Van/Wagon

IDENTIFICATION

TRANSMISSION CODES TABLE

AA

Application Code

FWD

Camry	
(2.0L)	Model A140E & A-140L
(2.5L) V6	A-540E
Celica	Model A-140E & A-140L
Corolla	
2WD	Model A-131L & A-240L
Corolla FX/FX 16	Model A-131L & A-240E
Tercel	
2WD	Model A-132L
4WD	Model A-55F

RWD

Cressida	Model A-340E
MR2	Model A-240E & A-241E
Supra	Model A-340E
Van	
2WD	Model A-45DL
4WD	Model A-45DF

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LUBRICATION

SERVICE INTERVALS

Inspect fluid level every 15,000 miles. Under severe operating conditions, change ATF and filter every 15,000 miles or 24 months.

CHECKING FLUID LEVEL

Transmission

Check fluid level with engine idling. Shift each gear from

"P" through "L" and back to "P". Fluid level should be within "HOT" or "COLD" ranges marked on dipstick, depending on temperature of fluid. DO NOT overfill.

Differential

On models with an integral type transaxle and differential, remove filler plug and feel inside of hole with your finger. Fluid should come to bottom edge of filler plug hole. If level is low, add fluid until it begins to run out of filler hole.

RECOMMENDED FLUID

All transmissions use Dexron II automatic transmission fluid. See the TRANSMISSION REFILL CAPACITIES for applicable differential servicing and type fluid.

FLUID CAPACITY

TRANSMISSION REFILL CAPACITIES TABLE

TRANSMISSION REFILL CAPACITIES TABLE			
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Application	Refill Qts. (L)		Dry Fill Qts. (L)
A-43D	2.5 (2.4)		6.9 (6.5)
A-45DL	2.6 (2.5)		6.9 (6.5)
A-45DF	2.6 (2.5)		6.9 (6.5)
A-55 (1)	2.3 (2.2)	.....	4.8 (4.5)
A-55F (1)	4.4 (4.2)	.....	6.9 (6.5)
A-131L (2)	2.6 (2.5)	.....	5.8 (5.5)
A-132L (2)	2.6 (2.5)	.....	5.8 (5.5)
A-140E (2)	2.5 (2.4)	.....	6.3 (6.0)
A-140L (2)	2.5 (2.4)	.....	6.3 (6.0)
A-240E	2.5 (2.4)	.....	7.6 (7.2)
A-240L	3.3 (3.1)	.....	8.7 (8.2)
A-241E	2.5 (2.4)	.....	8.4 (7.9)
A-241H	3.3 (3.1)	.....	8.7 (8.2)
A-340E	1.7 (1.6)	.....	7.6 (7.2)
A-340H	4.8 (4.5)	.....	10.9 (10.3)
A-540E (2)	2.6 (2.5)	.....	6.2 (5.9)

(1) - Integral type differential uses API GL-5, SAE 80W-90.

(2) - Integral type differential uses Dexron II ATF.

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DRAINING & REFILLING

Transmission

1) Remove engine under cover, if necessary. Remove drain plug from TRANSMIS:

and drain fluid. If changing the transmission filter, remove oil pan bolts and oil pan. Thoroughly clean pan and transmission surface. Install filter, pan and new gasket and tighten to specifications.

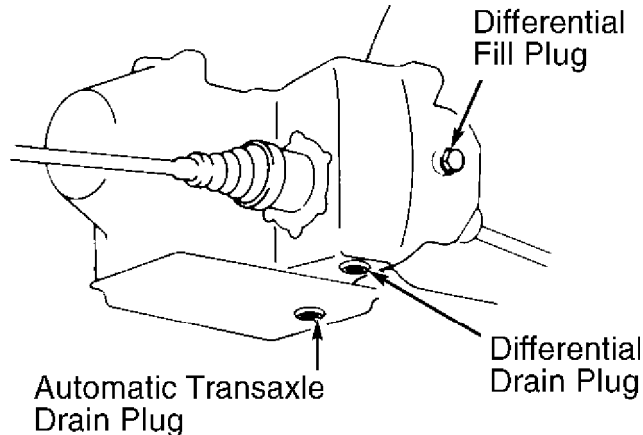
CAUTION: When removing the transmission filter, note different size bolt lengths for reassembly reference.

2) Replace pan drain plug and fill transmission with approximate amount of ATF fluid. See TRANSMISSION REFILL CAPACITIES table.

3) Start engine and shift through all gears. Shift into "P" and check fluid level. Add fluid as necessary. DO NOT overfill.

Differential

Some FWD models have separate drain plugs for the transmission and differential (although together they are one unit). Both transmission and differential plugs must be removed to drain all fluid from both cavities. The transaxle is filled through the dipstick tube but, the differential is filled through a separate fill plug. See Fig. 1. Fill differential until fluid runs out of fill hole.



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Fig. 1: Servicing Differential On Integral Type Transaxle
Courtesy of Toyota Motor Sales, U.S.A., Inc.

ADJUSTMENTS

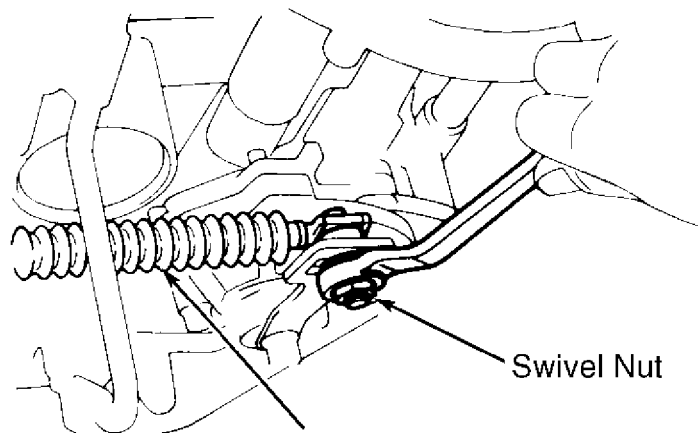
SHIFT CABLE

Camry, Celica, Corolla, MR2, Tercel Sedan & Van

1) Loosen swivel nut on manual shift lever. Push manual shift lever fully toward right side of vehicle on all except Van models. On Van models, push manual lever fully rearward.

2) On all models, return lever 2 notches to Neutral position. Ensure shift lever is in "N". While holding lever lightly toward "R" TRANSI

range side, tighten swivel nut to 61 INCH Lbs (6 N.m). See Fig. 2.



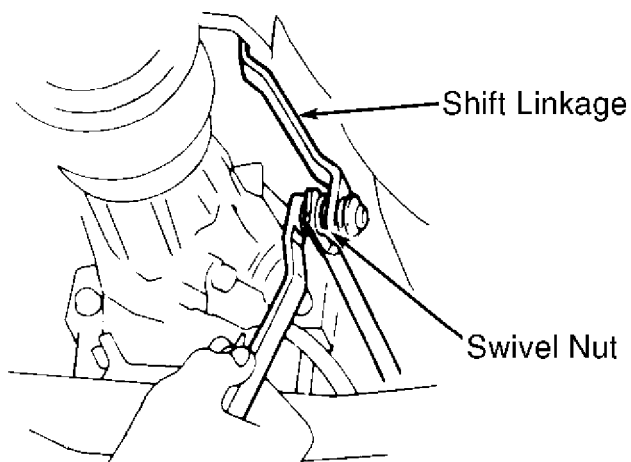
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Fig. 2: Adjusting Shift Cable
Courtesy of Toyota Motor Sales, U.S.A., Inc.

FLOOR SHIFT LINKAGE

Cressida & Tercel Wagon

1) Loosen swivel nut on shift linkage. See Fig. 3. Push manual shift lever fully toward rear of vehicle on all except Land Cruiser models. On Land Cruiser models, push manual lever fully toward front of vehicle.

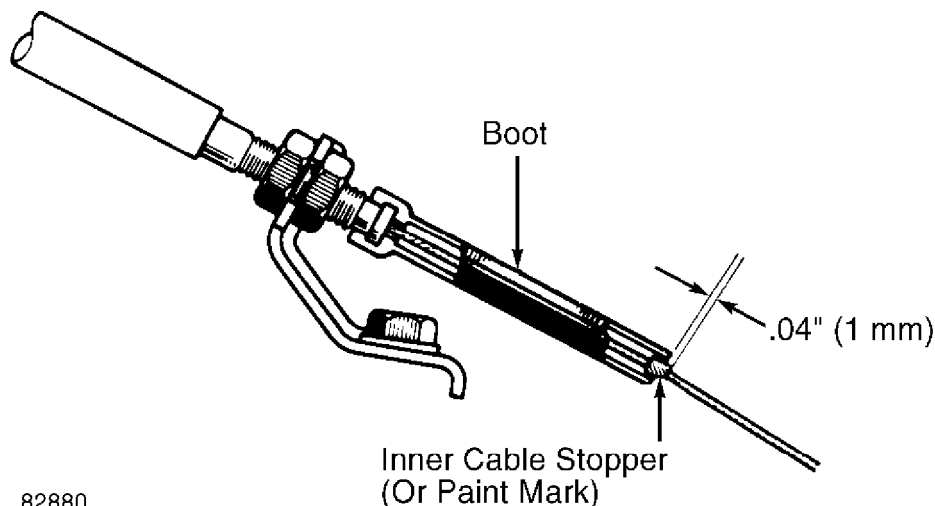
2) On all models, return lever 2 notches to Neutral position. Ensure shift lever is in "N". While holding lever lightly toward "R" range side, tighten swivel nut to 61 INCH Lbs. (6 N.m).



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Fig. 3: Adjusting Floor Shift Linkage Assembly
Courtesy of Toyota Motor Sales, U.S.A., Inc.

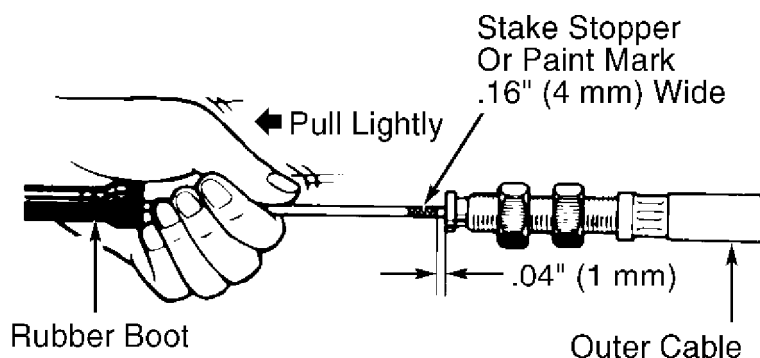
THROTTLE CABLE

1) Remove air cleaner. Check throttle cable bracket and linkage for looseness or bending. Depress accelerator to wide open throttle position. Adjust cable housing so distance between rubber boot end and inner cable stopper or paint mark is .04" (1.0 mm). Tighten lock nut. See Fig. 4.



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Fig. 4: Adjusting Throttle Cable
Courtesy of Toyota Motor Sales, U.S.A., Inc.

2) New throttle cables will not have a stopper or paint mark in place. With the new cable securely installed in transmission, pull inner cable slightly until resistance is felt. See Fig. 6. Stake new stopper or paint a mark as shown.



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Fig. 5: Marking New Throttle Cable (Except Tercel Wagon)
Courtesy of Toyota Motor Sales, U.S.A., Inc.

THROTTLE LINK

Tercel Wagon

1) Remove air cleaner. Check throttle cable bracket and linkage for looseness or bending. Depress accelerator to wide open throttle position, and check that throttle opens fully. If not, adjust

throttle cable.

2) Fully depress accelerator pedal and hold. Adjust linkage by turning turnbuckle until throttle valve lever indicator lines up with mark on transmission case. Tighten lock nut. See Fig. 6.

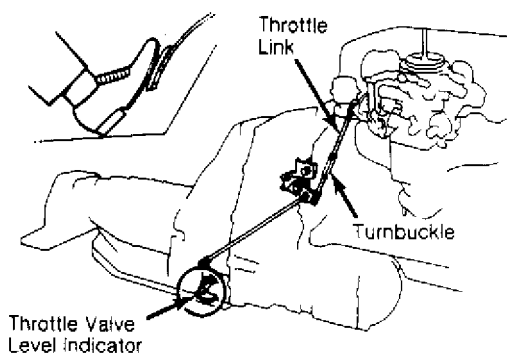
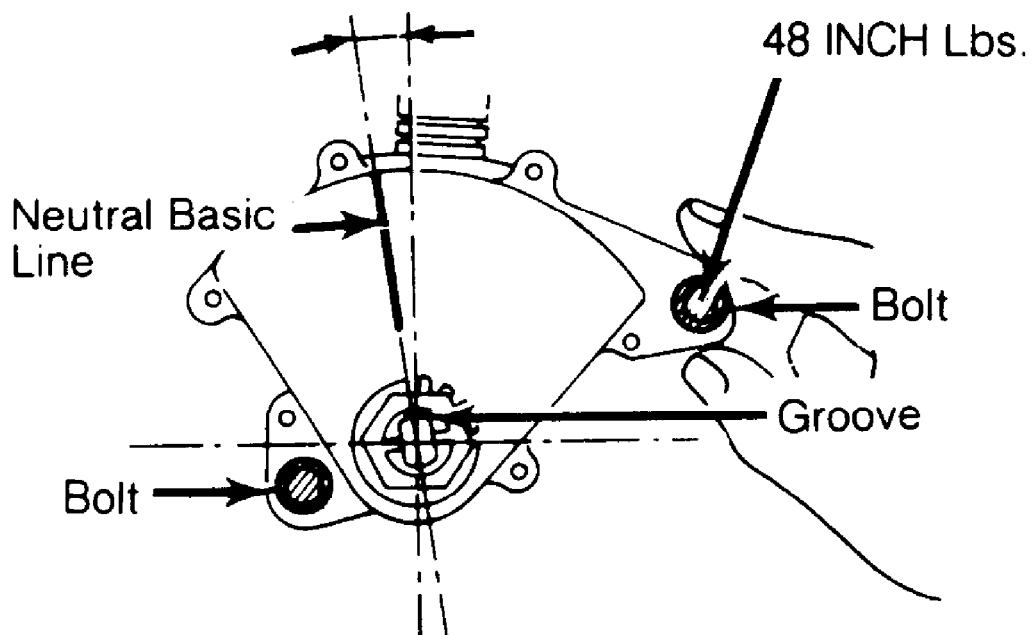


Fig. 6: Adjusting Tercel Wagon Throttle Link
Courtesy of Toyota Motor Sales, U.S.A., Inc.

NEUTRAL SAFETY SWITCH

Loosen neutral safety switch bolts. Position shift lever in "N". Align switch shaft groove to neutral basic line. See Fig. 7. Tighten adjusting bolt.



NOTE: RWD adjustment is similar

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Fig. 7: Adjusting FWD Neutral Safety Switch
Courtesy of Toyota Motor Sales, U.S.A., Inc.

TORQUE SPECIFICATIONS

TORQUE SPECIFICATIONS TABLE

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Application Ft. Lbs. (N.m)

Drain Plug

A-42DL, A-43D, A-45DL & A-45DF	15 (20)
A-55 & A-55F	22 (29)
All Others	Securely

INCH Lbs. (N.m)

Oil Filter Bolts

A-42DL, A-43D,	
A-45DL, A-45DF A-55 & A-55F	48 (5.4)
A-131L, A-132L & A-240E	89 (10)
A-140E & A-140L	89 (10)
A-340E & A-340H	61 (6.8)

Oil Pan Bolts

A-42DL, A-43D, A-45DL & A-45DF	39 (4)
A-55 & A-55F	65 (7)
A-340E & A-340H	65 (7)
All Others	43 (5)

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END OF ARTICLE