

MANUAL TRANSMISSION

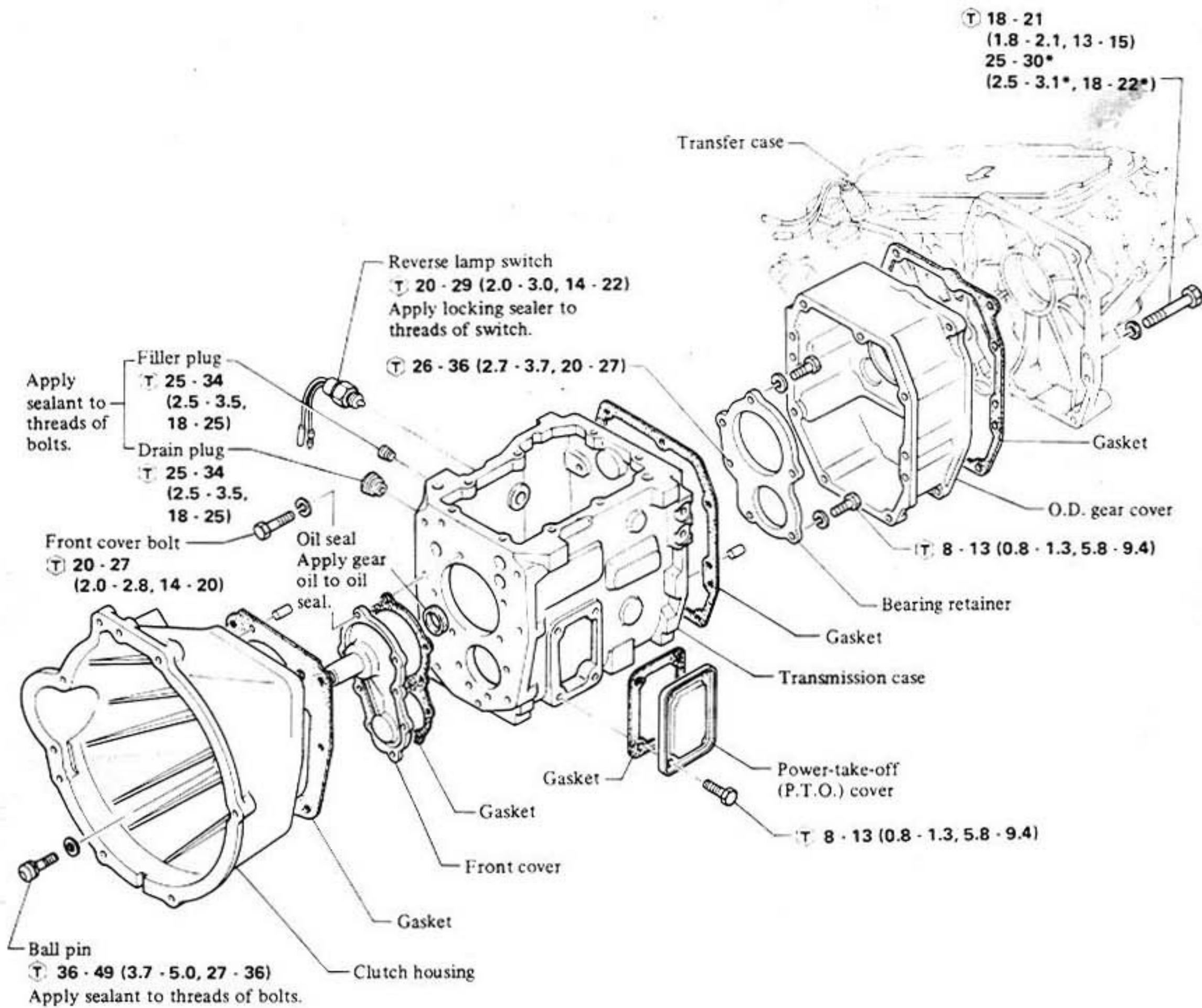
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★ : Refer to Service Manual "NISSAN/DATSUN model 160 & 61 series".



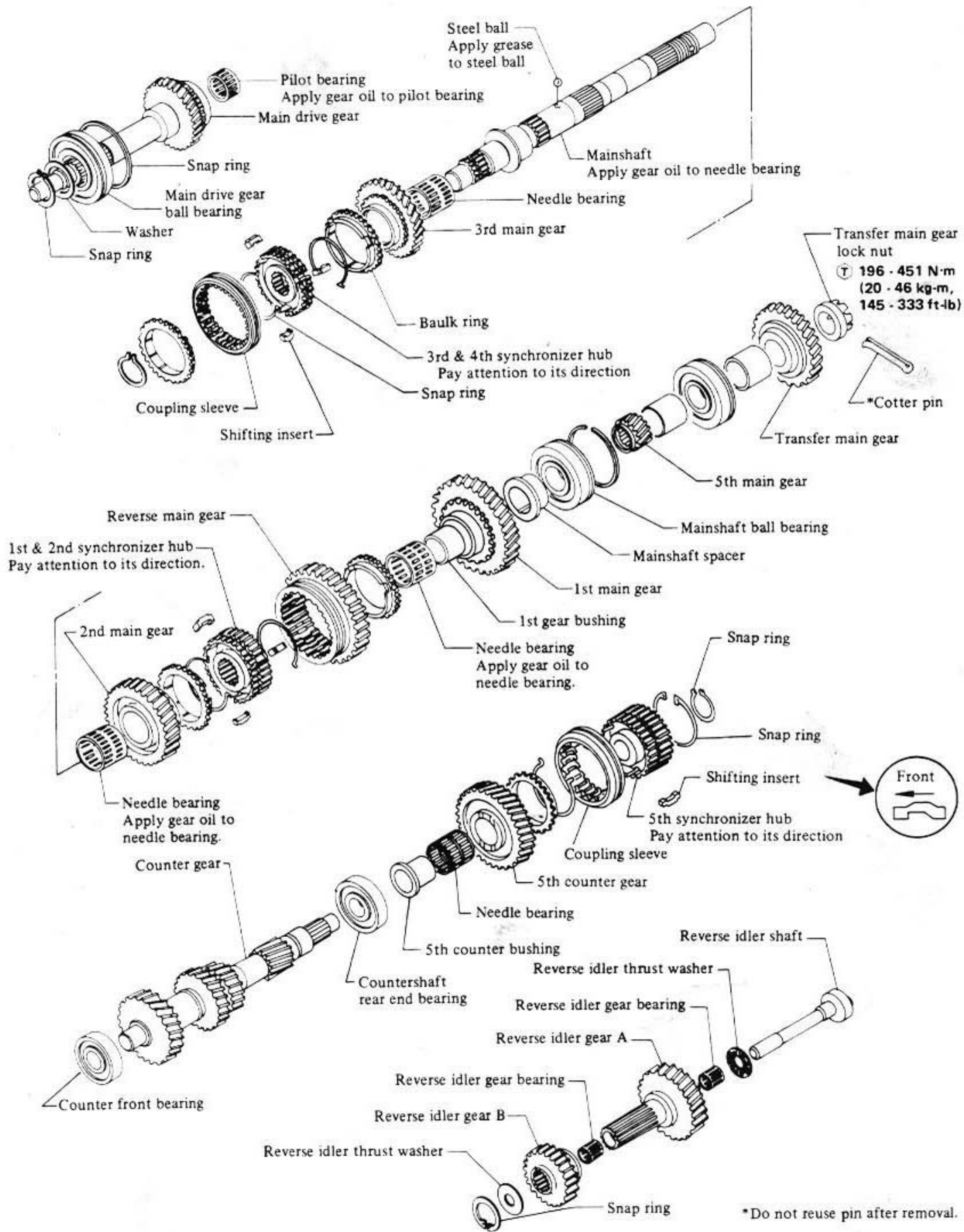
5-SPEED TRANSMISSION (Model : FS5W81A)



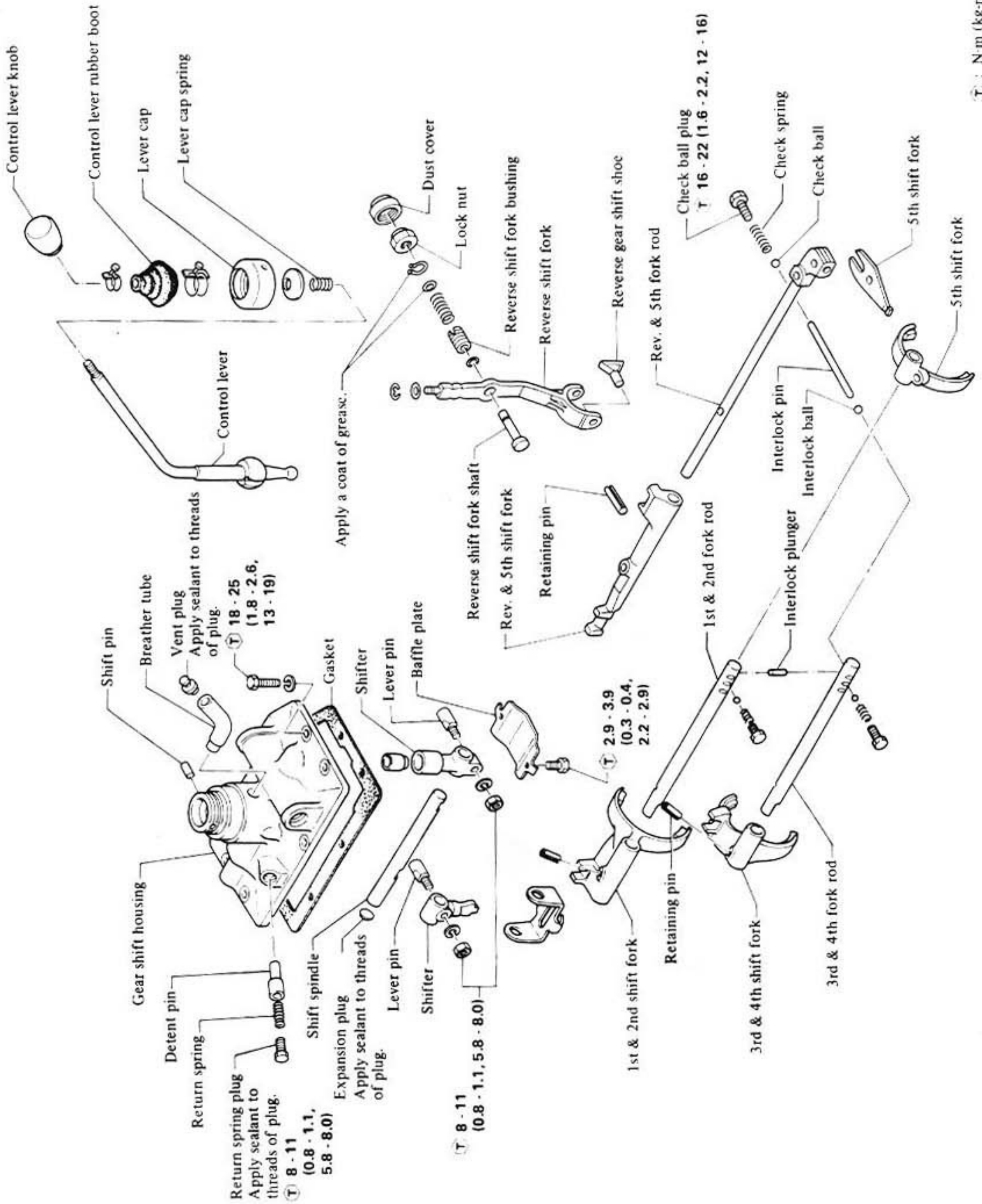
*Refer to S.D.S.
T : N·m (kg·m, ft·lb)

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5-SPEED TRANSMISSION (Model: FS5W81A)



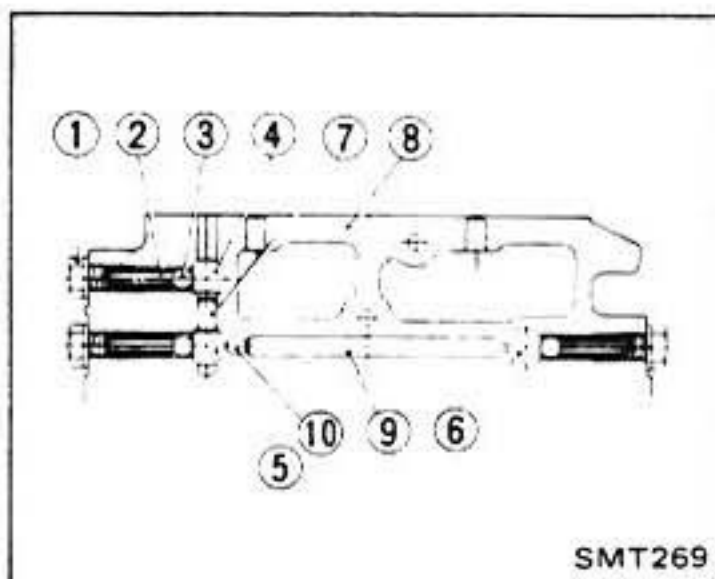
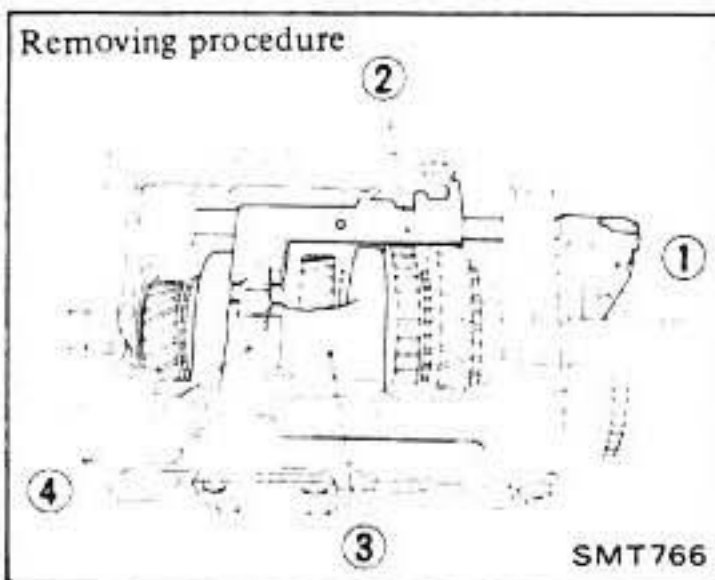
5-SPEED TRANSMISSION (Model: FS5W81A)



T : N-m (kg-m, ft-lb)

FORKS AND FORK RODS

DISASSEMBLY



- | | |
|----------------------|---------------------|
| 1 Check ball plug | 6 Reverse fork rod |
| 2 Check spring | 7 Interlock plunger |
| 3 Check ball | 8 Transmission case |
| 4 1st & 2nd fork rod | 9 Interlock pin |
| 5 3rd & 4th fork rod | 10 Interlock ball |

Be careful not to lose the three (3) check balls, interlock plunger and interlock ball.

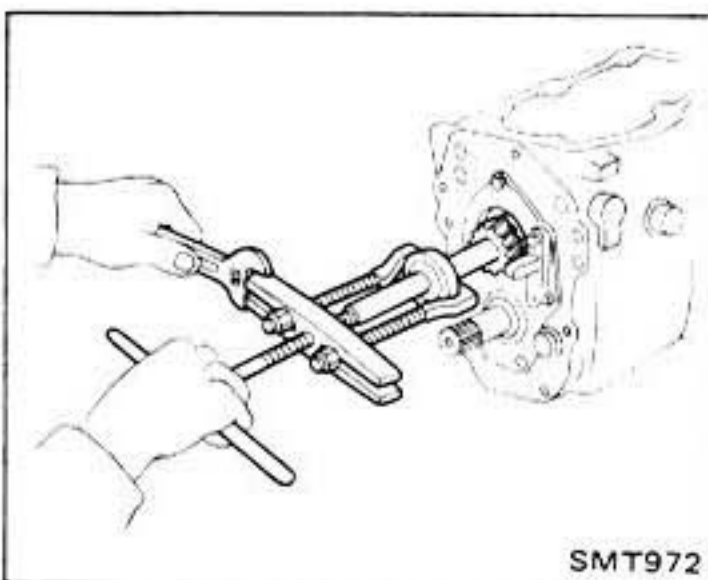
GEARS AND SHAFTS

Refer to NISSAN/DATSUN model 160 & 61 Service Manual for other than 5th gear.

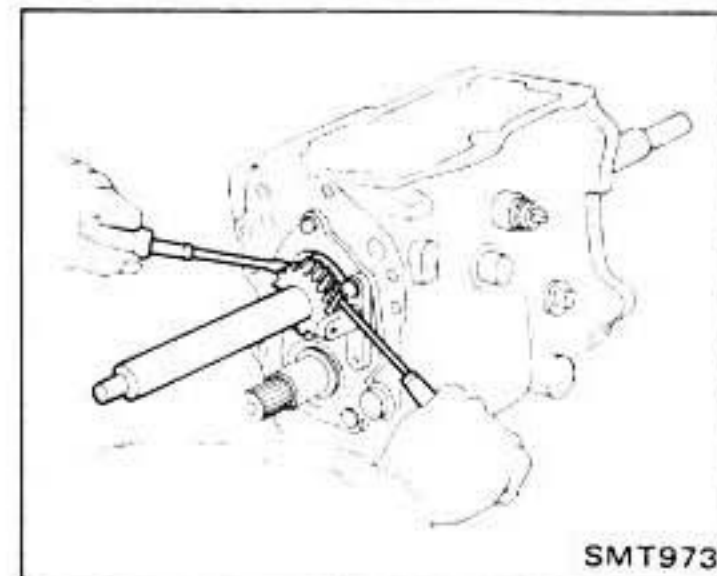
DISASSEMBLY

O.D. gears

1. Remove O.D. shift fork.
2. Remove snap ring at the rear end of overdrive counter gear and then remove overdrive counter gear assembly.
3. Remove mainshaft rear bearing, using universal puller. Take out spacer.



4. Remove overdrive gear by placing the tips of two flat-bladed screwdrivers at the back of overdrive gear, twisting them. If it is hard to slide them out, use universal puller.



SERVICE DATA AND SPECIFICATIONS

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GENERAL SPECIFICATIONS

Transmission model	FS5W81A	
No. of speed	5	
Synchromesh type	Warner	
Shift type		
Gear ratio		
1st		3.897
2nd		2.370
3rd		1.440
4th		1.000
O.D.		0.825
Rev.		4.267
Number of teeth		
Mainshaft		
Drive		24
1st		38
2nd		32
3rd		27
O.D.		26
Rev.		32
Countershaft		
Drive		32
1st		13
2nd		18
3rd		25
O.D.		42
Rev.		13
Rev. idler gear		
Countershaft (*A)		26
Mainshaft (*B)		20
Oil capacity	ℓ (Imp pt)	2.7 (4-3/4)

(*A) Mesh to counter reverse gear.
 (*B) Mesh to reverse main gear.

INSPECTION AND ADJUSTMENT

GEAR END PLAY

Unit: mm (in)

Position	Model	All models
1st main gear		0.15 - 0.30 (0.0059 - 0.0118)
2nd main gear		0.20 - 0.36 (0.0079 - 0.0142)
3rd main gear		0.10 - 0.26 (0.0039 - 0.0102)
O.D. main gear		0.10 - 0.25 (0.0039 - 0.0098)
Rev. idler gear A		0.05 - 0.45 (0.0020 - 0.0177)
Rev. idler gear B		0 - 0.50 (0 - 0.0197)

CLEARANCE BETWEEN BAULK RING AND GEAR

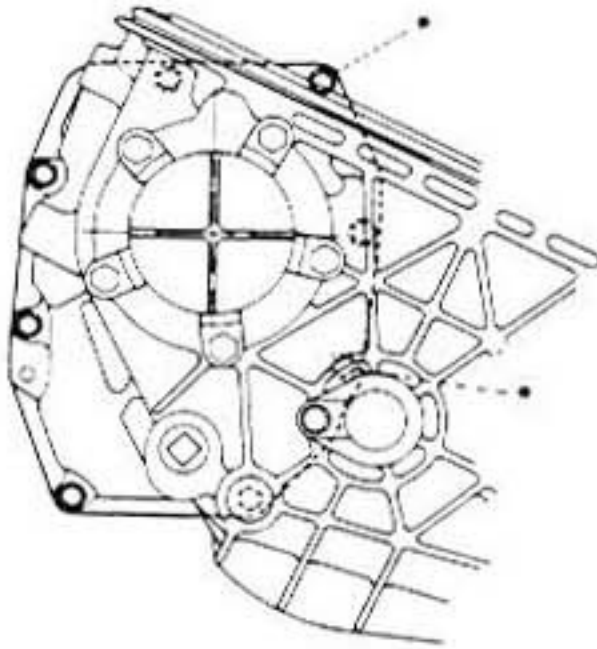
Unit: mm (in)

	All models
Standard	
1st, 2nd & O.D.	1.25 - 1.80 (0.0492 - 0.0709)
3rd & 4th	0.90 - 1.80 (0.0354 - 0.0709)
Wear limit	
1st & 2nd	0.8 (0.031)
3rd & 4th	0.5 (0.020)

SERVICE DATA AND SPECIFICATIONS

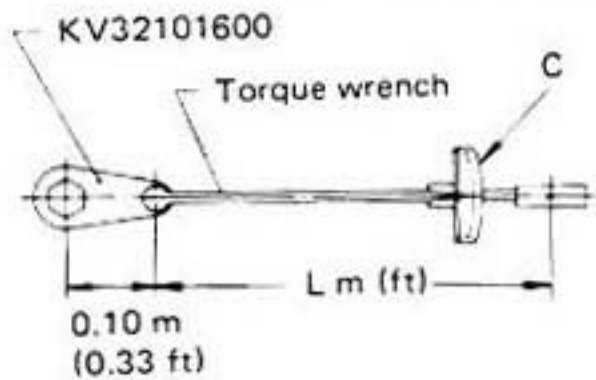
TIGHTENING TORQUE

Unit	N-m	kg-m	ft-lb
Transmission to engine installation bolt	36 - 50	3.7 - 5.1	27 - 37
Transfer to transmission installation bolt	25 - 30* 18 - 21	2.5 - 3.1* 1.8 - 2.1	18 - 22* 13 - 15
Transfer to O.D. cover installation bolt	18 - 21	1.8 - 2.1	13 - 15
O.D. cover to transmission installation bolt	25 - 30* 18 - 21	2.5 - 3.1* 1.8 - 2.1	18 - 22* 13 - 15
Mainshaft lock nut	196 - 451 \diamond	20 - 46 \diamond	145 - 333 \diamond

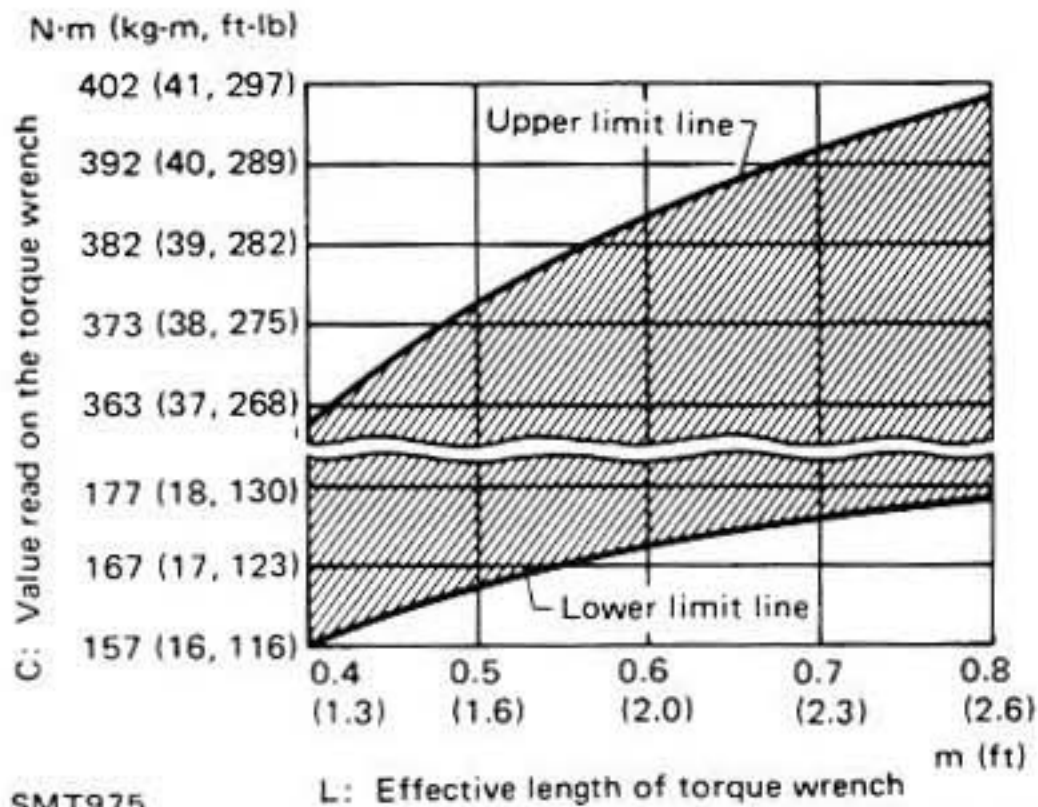


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- * Apply sealant to thread of bolt.
- \diamond Mainshaft nut should be tightened to specified torque with **Tool KV32101600**. When doing so, the amount of torque to be read on wrench needle should be modified according to the following chart.



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