

MANUAL TRANSMISSION

GI

SECTION **MT**

MA

EM

LC

MODIFICATION NOTICE:

- VG33E engine models have been added for Australia.
- FS5W71C and FS5R30A transmission model service data has been changed.

EC

FE

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CL

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MT

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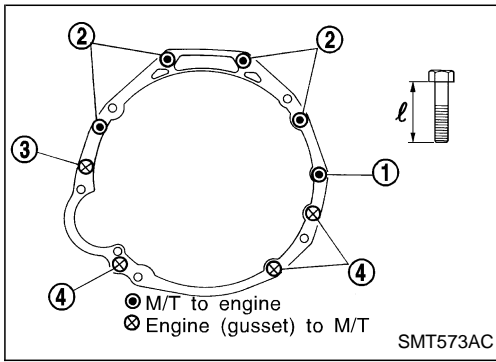
RS

BT

HA

EL

IDX



Installation

- Tighten bolt securing transmission.

VG33E engine model

Bolt No.	Tightening torque N·m (kg·m, ft·lb)	ℓ mm (in)
①	39 - 49 (4.0 - 4.9, 29 - 36)	65 (2.56)
②	29 - 39 (2.9 - 4.0, 21 - 28)	58 (2.28)
③	39 - 49 (4.0 - 4.9, 29 - 36)	58 (2.28)
④	29 - 39 (2.9 - 4.0, 21 - 28)	25 (0.98)
Gusset to engine	29 - 39 (2.9 - 4.0, 21 - 28)	20 (0.79)

SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications

Applied model	2WD					4WD					
	Z24S	KA24DE	VG30E	YD25DDTi	TD27	KA24DE	VG33E	YD25DDTi	ZD30DDT	QD32	
Transmission model	FS5W71C		FS5R30A		FS5W71C		FS5R30A				
Transmission model code number	VJ601	VJ301	57G04	VK505	2S561	VJ361	9S100	VK511	VK111	VK311	
Number of speed	5										
Shift pattern											
Synchromesh type	Warner										
Gear ratio											
	1st	3.985	3.592	3.580	3.580	3.985	3.592	3.580	3.580	3.580	3.580
	2nd	2.246	2.246	2.077	2.077	2.246	2.246	2.077	2.077	2.077	2.077
	3rd	1.415	1.415	1.360	1.360	1.415	1.415	1.360	1.360	1.360	1.360
	4th	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
	OD	0.821	0.821	0.811	0.760	0.821	0.821	0.811	0.760	0.760	0.811
	Reverse	3.657	3.657	3.636	3.636	3.657	3.657	3.636	3.636	3.636	3.636
Number of teeth											
Mainshaft	Drive	21	21	22	22	21	21	22	22	22	22
	1st	34	33	32	32	34	33	32	32	32	32
	2nd	28	28	30	30	28	28	30	30	30	30
	3rd	26	26	29	29	26	26	29	29	29	29
	OD	21	21	24	23	21	21	24	23	23	24
	Reverse	36	36	30	30	36	36	30	30	30	30
Countershaft	Drive	32	32	32	32	32	32	32	32	32	32
	1st	13	14	13	13	13	14	13	13	13	13
	2nd	19	19	21	21	19	19	21	21	21	21
	3rd	28	28	31	31	28	28	31	31	31	31
	OD	39	39	43	44	39	39	43	44	44	43
	Reverse	15	15	12	12	15	15	12	12	12	12
Reverse idler gear	21		22		21		22				
Oil capacity	ℓ (Imp pt)	2.0 (3-1/2)	2.0 (3-1/2)	2.8 (4-7/8)	2.8 (4-7/8)	2.0 (3-1/2)	4.9 (8-5/8)	5.1 (9)			
Remarks	Sub-gear	Counter drive gear	Installed		Not installed		Installed				
		Reverse idler gear	Not installed	Installed	Not installed		Installed	Not installed	Installed		
	Double baulk ring type synchronizer	Not installed	Not installed (Except for Europe)*1	2nd and 3rd gears		Not installed	Installed (Except for Europe)*1	2nd and 3rd gears			
	Reverse synchronizer	Installed									

*1: Europe = 2nd and 3rd gears

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SERVICE DATA AND SPECIFICATIONS (SDS)

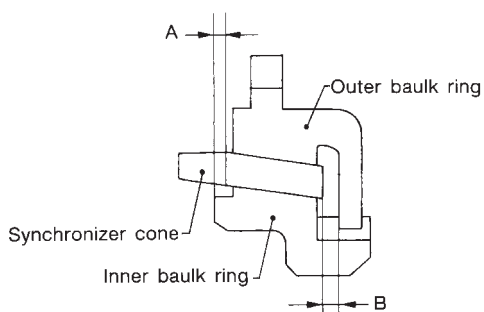
Clearance Between Baulk Ring and Gear

Unit: mm (in)

Transmission model	FS5W71C		FS5R30A	
Standard	1st & 2nd	1.20 - 1.60 (0.0473 - 0.0629)	1st	1.05 - 1.3 (0.0414 - 0.0511)
	3rd & main drive		Main drive	
	Overdrive	1.10 - 1.55 (0.0433 - 0.0610)	Overdrive	-0.1 to 0.35 (-0.0039 to 0.0138)
	Reverse		Reverse	
Wear limit	1st & 2nd	0.80 (0.0315)	1st	0.7 (0.028)
	3rd & main drive		Main drive	
	Overdrive	0.70 (0.0276)	Overdrive	
	Reverse		Reverse	

2nd & 3rd Baulk Ring

Unit: mm (in)



SMT733C

Transmission model	Dimension	Standard	Wear limit
FS5W71C* & FS5R30A	A	0.7 - 0.9 (0.028 - 0.035)	0.2 (0.008)
	B	0.6 - 1.1 (0.024 - 0.043)	

*: FS5W71C; For Europe