

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

General Specifications

CLUTCH CONTROL SYSTEM

Engine	Except for SR20DET	SR20DET
Type of clutch control	Mechanical	Hydraulic

CLUTCH MASTER CYLINDER

Inner diameter	mm (in)	15.87 (5/8)
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CLUTCH OPERATING CYLINDER

Inner diameter	mm (in)	19.05 (3/4)
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CLUTCH DISC

Unit: mm (in)

Engine	E10S, GA13DS, GA14DS	GA16DS (2WD), GA16DE, CD17	CD20	GA16DS (4WD)	SR20DE	SR20DET
Model	180CBL	190TBL	200TBL		215TBL	240LTD
Facing size (Outer dia. x inner dia. x thickness)	180 x 125 x 3.5 (7.09 x 4.92 x 0.138)	190 x 132 x 3.5 (7.48 x 5.20 x 0.138)	200 x 130 x 3.5 (7.87 x 5.12 x 0.138)		215 x 140 x 3.5 (8.46 x 5.51 x 0.138)	240 x 160 x 3.5 (9.45 x 6.30 x 0.138)
Thickness of disc assembly with load	8.0 - 8.4 (0.315 - 0.331) with 3,923 N (400 kg, 882 lb)			7.7 - 8.1 (0.303 - 0.319) with 3,923 N (400 kg, 882 lb)	7.6 - 8.0 (0.299 - 0.315) with 3,923 N (400 kg, 882 lb)	7.9 - 8.3 (0.311 - 0.327) with 4,904 N (500 kg, 1,103 lb)

CLUTCH COVER

Engine	E10S	GA13DS, GA14DS	GA16DS (2WD)	GA16DE	CD17	CD20, GA16DS (4WD)	SR20DE	SR20DET
Model	C180S		C190S			C200S	C215S	C240S
Full-load N (kg, lb)	2,746 (280, 617)	3,236 (330, 728)	3,432 (350, 772)	3,825 (390, 860)	2,844 (290, 639)	3,481 (355, 783)	4,413 (450, 992)	5,688 (580, 1,279)

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment

CLUTCH PEDAL

Unit: mm (in)

Applied model	2WD		4WD	
	R.H.D.	L.H.D.	GA16DS engine models	SR20DET engine models
Pedal height*	159 - 169 (6.26 - 6.65)	150 - 160 (5.91 - 6.30)	162 - 172 (6.38 - 6.77)	159 - 169 (6.26 - 6.65)
Pedal free play "A ₁ " (Backlash at clevis)	—			1 - 3 (0.04 - 0.12)
Pedal free travel "A ₂ "	10.8 - 15.1 (0.425 - 0.594)			—
Withdrawal lever play "B"	2.5 - 3.5 (0.098 - 0.138)			—

*: Measured from surface of melt sheet to surface of pedal pad.

CLUTCH DISC

Unit: mm (in)

Disc model	180CBL	190TBL	200TBL	215TBL	240LTD
Wear limit of facing surface to rivet head	0.3 (0.012)				
Runout limit of facing	1.0 (0.039)				
Distance of runout check point (from hub center)	85 (3.35)	90 (3.54)	95 (3.74)	102.5 (4.04)	115 (4.53)
Maximum backlash of spline (at outer edge of disc)	0.7 (0.028)	0.8 (0.031)	0.8 (0.031)	0.9 (0.035)	1.0 (0.039)

CLUTCH COVER

Unit: mm (in)

Cover model	C180S	C190S		C200S	C215S	C240S
Diaphragm spring height	29 - 31 (1.14 - 1.22)	29 - 31 (1.14 - 1.22)	31 - 33 (1.22 - 1.30)*	31 - 33 (1.22 - 1.30)	30.5 - 32.5 (1.201 - 1.280)	37.5 - 39.5 (1.476 - 1.555)
Uneven limit of diaphragm spring toe height "A"	1.0 (0.039)	0.7 (0.028)				0.5 (0.020)

*: For models with CD17 engine

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

General Specifications

TRANSAXLE

			2WD							4WD		
Engine			E10S	CD17	GA13DS, GA14DS	GA16DS	GA16DE	CD20	SR20DE	GA16DS	SR20DET	
Transaxle model			RN4F30A	RS5F30A		RS5F31A			RS5F32A	RS5F31A	RS5F50A	
Number of speeds			4	5								
Synchronesh type			Warner									
Shift pattern			13 24 N R	135 24 N R								
Gear ratio	1st		3.333	3.333	3.333	3.063	3.063	3.333	3.063	3.333	3.285	
	2nd		1.955	1.955	1.955	1.826	1.826	1.955	1.826	1.955	1.850	
	3rd		1.286	1.286	1.286	1.207	1.286	1.286	1.286	1.286	1.272	
	4th		0.902	0.902	0.902	0.902	0.975	0.902	0.975	0.926	0.954	
	5th		—	0.756	0.733	0.756	0.810	0.756	0.756	0.756	0.740	
	Reverse		3.417	3.417	3.417	3.417	3.417	3.417	3.153	3.417	3.266	
Number of teeth	Input gear	1st	15	15	15	16	16	15	16	15	14	
		2nd	22	22	22	23	23	22	23	22	20	
		3rd	28	28	28	29	28	28	28	28	33	
		4th	41	41	41	41	40	41	40	41	44	
		5th	—	45	45	45	42	45	45	45	50	
		Rev.	12	12	12	12	12	12	13	12	14	
	Main gear	1st	50	50	50	49	49	50	49	50	46	
		2nd	43	43	43	42	42	43	42	43	37	
		3rd	36	36	36	35	36	36	36	36	42	
		4th	37	37	37	37	39	37	39	38	42	
		5th	—	34	33	34	34	34	34	34	37	
		Rev.	41	41	41	41	41	41	41	41	41	
	Reverse idler gear		30							31	30	29/26
	Oil capacity ℓ (Imp pt)			2.6 (4-5/8)	2.8 (4-7/8)		2.9 (5-1/8)			3.5 - 3.7 (6-1/8 - 6-1/2)	2.9 (5-1/8)	4.2 (7-3/8)

FINAL GEAR

Engine		E10S	CD17	GA13DS, GA14DS	GA16DS (2WD)	GA16DE	CD20	SR20DE	GA16DS (4WD)	SR20DET
Final gear ratio		4.471	3.789	4.167	4.167	4.167	3.650	4.176	4.353	4.125
Number of teeth	Final gear/Pinion	76/17	72/19	75/18	75/18	75/18	73/20	71/17	74/17	66/16
	Side gear/Pinion mate gear	14/10	14/10	14/10	14/10	16/10	16/10	14/10	14/10	16/10

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment (Cont'd)

RS5F50A

GEAR END PLAY

Gear	End play mm (in)
1st main gear	0.23 - 0.43 (0.0091 - 0.0169)
2nd main gear	0.23 - 0.58 (0.0091 - 0.0228)
3rd main gear	0.23 - 0.43 (0.0091 - 0.0169)
4th main gear	0.25 - 0.55 (0.0098 - 0.0217)
5th input gear	0.23 - 0.48 (0.0091 - 0.0189)

CLEARANCE BETWEEN BAULK RING AND GEAR

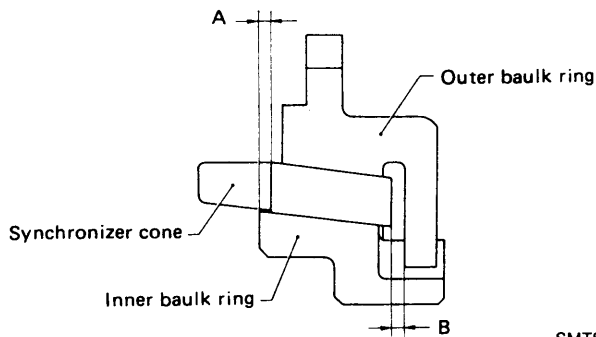
1st, 3rd, 4th & 5nd

Unit: mm (in)

	Standard	Wear limit
1st	1.0 - 1.35 (0.0394 - 0.0531)	0.7 (0.028)
3rd & 4th	1.0 - 1.35 (0.0394 - 0.0531)	0.7 (0.028)
5th	1.0 - 1.35 (0.0394 - 0.0531)	0.7 (0.028)

2nd baulk ring

Unit: mm (in)

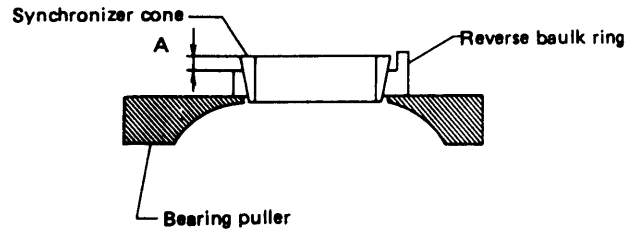


SMT806B

Dimension	Standard	Wear limit
A	0.6 - 0.8 (0.024 - 0.031)	0.2 (0.008)
B	0.6 - 1.1 (0.024 - 0.043)	

Reverse baulk ring

Unit: mm (in)



SMT517B

Dimension	Wear limit
A	1.2 (0.047)

AVAILABLE SNAP RINGS

3rd & 4th synchronizer hub (At input shaft)

Allowable clearance	0 - 0.15 mm (0 - 0.0059 in)
Thickness mm (in)	Part number
1.95 (0.0768)	32269-03E03
2.00 (0.0787)	32269-03E00
2.05 (0.0807)	32269-03E01
2.10 (0.0827)	32269-03E02

1st & 2nd synchronizer hub

Allowable clearance	0 - 0.1 mm (0 - 0.004 in)
Thickness mm (in)	Part number
1.95 (0.0768)	32269-03E03
2.00 (0.0787)	32269-03E00
2.05 (0.0807)	32269-03E01
2.10 (0.0827)	32269-03E02

5th main gear

Allowable clearance	0 - 0.15 mm (0 - 0.0059 in)
Thickness mm (in)	Part number
1.95 (0.0768)	32348-05E00
2.05 (0.0807)	32348-05E01
2.15 (0.0846)	32348-05E02
2.25 (0.0886)	32348-05E03

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment (Cont'd)

RS5F50A

AVAILABLE WASHERS

Input shaft thrust washer

Allowable clearance		0 - 0.06 mm (0 - 0.0024 in)
Thickness mm (in)	Part number	
4.500 (0.1772)	32278-03E01	
4.525 (0.1781)	32278-03E02	
4.550 (0.1791)	32278-03E03	
4.575 (0.1801)	32278-03E04	

Differential side gear thrust washer

Allowable clearance between side gear and differential case (viscous coupling) with washer		0.03 - 0.14 mm (0.0012 - 0.0055 in)
	Thickness mm (in)	Part number
Left side gear	0.75 - 0.80 (0.0295 - 0.0315)	38424-56E00
	0.80 - 0.85 (0.0315 - 0.0335)	38424-56E01
	0.85 - 0.90 (0.0335 - 0.0354)	38424-56E02
	0.90 - 0.95 (0.0354 - 0.0374)	38424-56E03
Right side gear	0.63 (0.0248)	38724-56E00
	0.72 (0.0283)	38724-56E01
	0.81 (0.0319)	38724-56E02
	0.90 (0.0354)	38724-56E03

AVAILABLE SHIMS

— INPUT SHAFT END PLAY AND MAINSHAFT AND DIFFERENTIAL SIDE BEARING PRELOAD AND ADJUSTING SHIM

Bearing preload and end play

Unit: mm (in)

Mainshaft bearing preload	0.25 - 0.30 (0.0098 - 0.0118)
Input shaft end play	-0.06 to 0 (-0.0024 to 0)
Differential side bearing	0.40 - 0.45 (0.0157 - 0.0177)

Turning torque (New bearing)

Unit: N·m (kg-cm, in-lb)

Final drive	4.9 - 7.8 (50 - 80, 43 - 69)
Total	8.8 - 21.6 (90 - 220, 78 - 191)

Mainshaft bearing adjusting shims

Thickness mm (in)	Part number
0.40 (0.0157)	32139-03E11
0.44 (0.0173)	32139-03E00
0.48 (0.0189)	32139-03E01
0.52 (0.0205)	32139-03E12
0.56 (0.0220)	32139-03E02
0.60 (0.0236)	32139-03E03
0.64 (0.0252)	32139-03E04
0.68 (0.0268)	32139-03E05
0.72 (0.0283)	32139-03E06
0.76 (0.0299)	32139-03E07
0.80 (0.0315)	32139-03E08
1.20 (0.0472)	32139-03E13

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment (Cont'd)

RS5F50A

Table for selecting mainshaft bearing adjusting shim

Unit: mm (in)	
Dimension "C"	Suitable shim(s)
0.30 - 0.34 (0.0118 - 0.0134)	0.60 (0.0236)
0.34 - 0.38 (0.0134 - 0.0150)	0.64 (0.0252)
0.38 - 0.42 (0.0150 - 0.0165)	0.68 (0.0268)
0.42 - 0.46 (0.0165 - 0.0181)	0.72 (0.0283)
0.46 - 0.50 (0.0181 - 0.0197)	0.76 (0.0299)
0.50 - 0.54 (0.0197 - 0.0213)	0.80 (0.0315)
0.54 - 0.58 (0.0213 - 0.0228)	0.40 + 0.44 (0.0157 + 0.0173)
0.58 - 0.62 (0.0228 - 0.0244)	0.44 + 0.44 (0.0173 + 0.0173)
0.62 - 0.66 (0.0244 - 0.0260)	0.44 + 0.48 (0.0173 + 0.0189)
0.66 - 0.70 (0.0260 - 0.0276)	0.48 + 0.48 (0.0189 + 0.0189)
0.70 - 0.74 (0.0276 - 0.0291)	0.48 + 0.52 (0.0189 + 0.0205)
0.74 - 0.78 (0.0291 - 0.0307)	0.52 + 0.52 (0.0205 + 0.0205)
0.78 - 0.82 (0.0307 - 0.0323)	0.52 + 0.56 (0.0205 + 0.0220)
0.82 - 0.86 (0.0323 - 0.0339)	0.56 + 0.56 (0.0220 + 0.0220)
0.86 - 0.90 (0.0339 - 0.0354)	0.56 + 0.60 (0.0220 + 0.0236)
0.90 - 0.94 (0.0354 - 0.0370)	0.60 + 0.60 (0.0236 + 0.0236)
0.94 - 0.98 (0.0370 - 0.0386)	0.60 + 0.64 (0.0236 + 0.0252)
0.98 - 1.02 (0.0386 - 0.0402)	0.64 + 0.64 (0.0252 + 0.0252)
1.02 - 1.06 (0.0402 - 0.0417)	0.64 + 0.68 (0.0252 + 0.0268)
1.06 - 1.10 (0.0417 - 0.0433)	0.68 + 0.68 (0.0268 + 0.0268)
1.10 - 1.14 (0.0433 - 0.0449)	0.68 + 0.72 (0.0268 + 0.0283)
1.14 - 1.18 (0.0449 - 0.0465)	0.72 + 0.72 (0.0283 + 0.0283)
1.18 - 1.22 (0.0465 - 0.0480)	0.72 + 0.76 (0.0283 + 0.0299)
1.22 - 1.26 (0.0480 - 0.0496)	0.76 + 0.76 (0.0299 + 0.0299)
1.26 - 1.30 (0.0496 - 0.0512)	0.76 + 0.80 (0.0299 + 0.0315)
1.30 - 1.34 (0.0512 - 0.0528)	0.80 + 0.80 (0.0315 + 0.0315)
1.34 - 1.38 (0.0528 - 0.0543)	0.44 + 1.20 (0.0173 + 0.0472)
1.38 - 1.42 (0.0543 - 0.0559)	0.48 + 1.20 (0.0189 + 0.0472)
1.42 - 1.46 (0.0559 - 0.0575)	0.52 + 1.20 (0.0205 + 0.0472)
1.46 - 1.50 (0.0575 - 0.0591)	0.56 + 1.20 (0.0220 + 0.0472)

Input shaft bearing adjusting shims

Thickness mm (in)	Part number
0.40 (0.0157)	32225-08E00
0.44 (0.0173)	32225-08E01
0.48 (0.0189)	32225-08E02
0.52 (0.0205)	32225-08E03
0.56 (0.0220)	32225-08E04
0.60 (0.0236)	32225-08E05
0.64 (0.0252)	32225-08E06
0.68 (0.0268)	32225-08E07
0.72 (0.0283)	32225-08E08
0.76 (0.0299)	32225-08E09
0.80 (0.0315)	32225-08E10
1.20 (0.0472)	32225-08E11

Table for selecting input bearing adjusting shim

Unit: mm (in)	
Dial indicator deflection	Suitable shim(s)
0.65 - 0.69 (0.0256 - 0.0272)	0.64 (0.0252)
0.69 - 0.73 (0.0272 - 0.0287)	0.68 (0.0268)
0.73 - 0.77 (0.0287 - 0.0303)	0.72 (0.0283)
0.77 - 0.81 (0.0303 - 0.0319)	0.76 (0.0299)
0.81 - 0.85 (0.0319 - 0.0335)	0.80 (0.0315)
0.85 - 0.89 (0.0335 - 0.0350)	0.40 + 0.44 (0.0157 + 0.0173)
0.89 - 0.93 (0.0350 - 0.0366)	0.44 + 0.44 (0.0173 + 0.0173)
0.93 - 0.97 (0.0366 - 0.0382)	0.44 + 0.48 (0.0173 + 0.0189)
0.97 - 1.01 (0.0382 - 0.0398)	0.48 + 0.48 (0.0189 + 0.0189)
1.01 - 1.05 (0.0398 - 0.0413)	0.48 + 0.52 (0.0189 + 0.0205)
1.05 - 1.09 (0.0413 - 0.0429)	0.52 + 0.52 (0.0205 + 0.0205)
1.09 - 1.13 (0.0429 - 0.0445)	0.52 + 0.56 (0.0205 + 0.0220)
1.13 - 1.17 (0.0445 - 0.0461)	0.56 + 0.56 (0.0220 + 0.0220)
1.17 - 1.21 (0.0461 - 0.0476)	0.56 + 0.60 (0.0220 + 0.0236)
1.21 - 1.25 (0.0476 - 0.0492)	0.60 + 0.60 (0.0236 + 0.0236)
1.25 - 1.29 (0.0492 - 0.0508)	0.60 + 0.64 (0.0236 + 0.0252)
1.29 - 1.33 (0.0508 - 0.0524)	0.64 + 0.64 (0.0252 + 0.0252)
1.33 - 1.37 (0.0524 - 0.0539)	0.64 + 0.68 (0.0252 + 0.0268)
1.37 - 1.41 (0.0539 - 0.0555)	0.68 + 0.68 (0.0268 + 0.0268)
1.41 - 1.45 (0.0555 - 0.0571)	0.68 + 0.72 (0.0268 + 0.0283)
1.45 - 1.49 (0.0571 - 0.0587)	0.72 + 0.72 (0.0283 + 0.0283)
1.49 - 1.53 (0.0587 - 0.0602)	0.72 + 0.76 (0.0283 + 0.0299)
1.53 - 1.57 (0.0602 - 0.0618)	0.76 + 0.76 (0.0299 + 0.0299)
1.57 - 1.61 (0.0618 - 0.0634)	0.76 + 0.80 (0.0299 + 0.0315)
1.61 - 1.65 (0.0634 - 0.0650)	0.80 + 0.80 (0.0315 + 0.0315)
1.65 - 1.69 (0.0650 - 0.0665)	0.44 + 1.20 (0.0173 + 0.0472)

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment (Cont'd)

RS5F50A

Differential side bearing adjusting shims

Thickness mm (in)	Part number
0.36 (0.0142)	38753-56E00
0.40 (0.0157)	38753-56E01
0.44 (0.0173)	38753-56E02
0.48 (0.0189)	38753-56E03
0.52 (0.0205)	38753-56E04
0.56 (0.0220)	38753-56E05
0.60 (0.0236)	38753-56E06
0.64 (0.0252)	38753-56E07
0.68 (0.0268)	38753-56E08
0.72 (0.0283)	38753-56E09
0.76 (0.0299)	38753-56E10
0.80 (0.0315)	38753-56E11
0.84 (0.0331)	38753-56E12
0.88 (0.0346)	38753-56E13
0.92 (0.0362)	38753-56E14

Table for selecting differential side bearing adjusting shim(s)

Unit: mm (in)	
Dial indicator deflection	Suitable shim(s)
0.47 - 0.51 (0.0185 - 0.0201)	0.44 + 0.48 (0.0173 + 0.0189)
0.51 - 0.55 (0.0201 - 0.0217)	0.48 + 0.48 (0.0189 + 0.0189)
0.55 - 0.59 (0.0217 - 0.0232)	0.48 + 0.52 (0.0189 + 0.0205)
0.59 - 0.63 (0.0232 - 0.0248)	0.52 + 0.52 (0.0205 + 0.0205)
0.63 - 0.67 (0.0248 - 0.0267)	0.52 + 0.56 (0.0205 + 0.0220)
0.67 - 0.71 (0.0264 - 0.0280)	0.56 + 0.56 (0.0220 + 0.0220)
0.71 - 0.75 (0.0280 - 0.0295)	0.56 + 0.60 (0.0220 + 0.0236)
0.75 - 0.79 (0.0295 - 0.0311)	0.60 + 0.60 (0.0236 + 0.0236)
0.79 - 0.83 (0.0311 - 0.0327)	0.60 + 0.64 (0.0236 + 0.0252)
0.83 - 0.87 (0.0327 - 0.0343)	0.64 + 0.64 (0.0252 + 0.0252)
0.87 - 0.91 (0.0343 - 0.0358)	0.64 + 0.68 (0.0252 + 0.0268)
0.91 - 0.95 (0.0358 - 0.0374)	0.68 + 0.68 (0.0268 + 0.0268)
0.95 - 0.99 (0.0374 - 0.0390)	0.68 + 0.72 (0.0268 + 0.0283)
0.99 - 1.03 (0.0390 - 0.0406)	0.72 + 0.72 (0.0283 + 0.0283)
1.03 - 1.07 (0.0406 - 0.0421)	0.72 + 0.76 (0.0283 + 0.0299)
1.07 - 1.11 (0.0421 - 0.0437)	0.76 + 0.76 (0.0299 + 0.0299)
1.11 - 1.15 (0.0437 - 0.0453)	0.76 + 0.80 (0.0299 + 0.0315)
1.15 - 1.19 (0.0453 - 0.0469)	0.80 + 0.80 (0.0315 + 0.0315)
1.19 - 1.23 (0.0469 - 0.0484)	0.72 + 0.92 (0.0283 + 0.0362)
1.23 - 1.27 (0.0484 - 0.0500)	0.76 + 0.92 (0.0299 + 0.0362)
1.27 - 1.31 (0.0500 - 0.0516)	0.80 + 0.92 (0.0315 + 0.0362)

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

General Specifications

Vehicle model		GA16DS engine models	SR20DET engine models
Transfer model		VTY10A	FTY10A
Gear ratio		0.270	0.270
Number of teeth	Ring gear	47	47
	Counter gear	21	21
	Hypoid gear	38	38
	Hypoid pinion	23	23
Oil capacity ℓ (Imp qt)		1.1 (1)	1.5 (1-3/8)

Inspection and Adjustment

GEAR END PLAY (VTY10A & FTY10A)

Unit: mm (in)

Ring gear	0 - 0.06 (0 - 0.0024)
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BEARING PRELOAD (VTY10A & FTY10A)

Hypoid pinion bearing	Adjusting method		Collapsible spacer
	Preload	N·m (kg-cm, in-lb) *2	
			1.1 - 1.6 (11 - 16, 9.5 - 13.9)
Counter-shaft bearing	Adjusting method		Shim (countershaft shim and hypoid gear shim)
	Preload	N (kg, lb)*1	
		mm (in)	
			88 - 235 (9 - 24, 20 - 53)
			0.20 - 0.26 (0.0079 - 0.0102)
Total pre-load		N·m (kg-cm, in-lb) *2	2.0 - 3.9 (20 - 40, 17 - 35)

*1: at right gear spline outer diameter

*2: at pinion nut

AVAILABLE SHIMS

Countershaft shims

Thickness mm (in)	Part number	
	VTY10A	FTY10A
0.40 (0.0157)	33123-06R00	33123-56E00
0.44 (0.0173)	33123-06R01	33123-56E01
0.48 (0.0189)	33123-06R02	33123-56E02
0.52 (0.0205)	33123-06R03	33123-56E03
0.56 (0.0220)	33123-06R04	33123-56E04
0.60 (0.0236)	33123-06R05	33123-56E05
0.64 (0.0252)	33123-06R06	33123-56E06
0.68 (0.0268)	33123-06R07	33123-56E07
0.72 (0.0283)	33123-06R08	33123-56E08
0.76 (0.0299)	33123-06R09	33123-56E09
0.92 (0.0362)	33123-06R10	33123-56E10
1.32 (0.0520)	33123-06R11	33123-56E11

GEAR BACKLASH

Unit: mm (in)

Transfer model	VTY10A	FTY10A
Ring gear-to-counter gear*1	0.02 - 0.04 (0.0008 - 0.0016)	0.02 - 0.04 (0.0008 - 0.0016)
Hypoid gear-to-pinion*2	0.08 - 0.12 (0.0031 - 0.0047)*2	0.10 - 0.15 (0.0039 - 0.0059)*3

*1: at ring gear spline

*2: at bolt hole in viscous coupling

*3: at bolt hole of companion flange

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment (Cont'd)

**Table for selecting suitable countershaft shim
(VTY10A & FTY10A)**

Unit: mm (in)

Unit: mm (in)		
Dimension "G"	Suitable shim thickness	Appropriate shim
0.31 - 0.35 (0.0122 - 0.0138)	0.56 (0.0220)	0.56 (0.0220)
0.35 - 0.39 (0.0138 - 0.0154)	0.60 (0.0236)	0.60 (0.0236)
0.39 - 0.43 (0.0154 - 0.0169)	0.64 (0.0252)	0.64 (0.0252)
0.43 - 0.47 (0.0169 - 0.0185)	0.68 (0.0268)	0.68 (0.0268)
0.47 - 0.51 (0.0185 - 0.0201)	0.72 (0.0283)	0.72 (0.0283)
0.51 - 0.55 (0.0201 - 0.0217)	0.76 (0.0299)	0.76 (0.0299)
0.55 - 0.59 (0.0217 - 0.0232)	0.80 (0.0315)	0.40 + 0.40 (0.0157 + 0.0157)
0.59 - 0.63 (0.0232 - 0.0248)	0.84 (0.0331)	0.40 + 0.44 (0.0157 + 0.0173)
0.63 - 0.67 (0.0248 - 0.0264)	0.88 (0.0346)	0.40 + 0.48 (0.0157 + 0.0189)
0.67 - 0.71 (0.0264 - 0.0280)	0.92 (0.0362)	0.92 (0.0362)
0.71 - 0.75 (0.0280 - 0.0295)	0.96 (0.0378)	0.40 + 0.56 (0.0157 + 0.0220)
0.75 - 0.79 (0.0295 - 0.0311)	1.00 (0.0394)	0.40 + 0.60 (0.0157 + 0.0236)
0.79 - 0.83 (0.0311 - 0.0327)	1.04 (0.0409)	0.40 + 0.64 (0.0157 + 0.0252)
0.83 - 0.87 (0.0327 - 0.0343)	1.08 (0.0425)	0.40 + 0.68 (0.0157 + 0.0268)
0.87 - 0.91 (0.0343 - 0.0358)	1.12 (0.0441)	0.40 + 0.72 (0.0157 + 0.0283)
0.91 - 0.95 (0.0358 - 0.0374)	1.16 (0.0457)	0.40 + 0.76 (0.0157 + 0.0299)
0.95 - 0.99 (0.0374 - 0.0390)	1.20 (0.0472)	0.44 + 0.76 (0.0173 + 0.0299)
0.99 - 1.03 (0.0390 - 0.0406)	1.24 (0.0488)	0.48 + 0.76 (0.0189 + 0.0299)
1.03 - 1.07 (0.0406 - 0.0421)	1.28 (0.0504)	0.52 + 0.76 (0.0205 + 0.0299)
1.07 - 1.11 (0.0421 - 0.0437)	1.32 (0.0520)	1.32 (0.0520)
1.11 - 1.15 (0.0437 - 0.0453)	1.36 (0.0535)	0.60 + 0.76 (0.0236 + 0.0299)
1.15 - 1.19 (0.0453 - 0.0469)	1.40 (0.0551)	0.64 + 0.76 (0.0252 + 0.0299)
1.19 - 1.23 (0.0469 - 0.0484)	1.44 (0.0567)	0.68 + 0.76 (0.0268 + 0.0299)
1.23 - 1.27 (0.0484 - 0.0500)	1.48 (0.0583)	0.72 + 0.76 (0.0283 + 0.0299)

Dimension "G"	Suitable shim thickness	Appropriate shim
1.27 - 1.31 (0.0500 - 0.0516)	1.52 (0.0598)	0.76 + 0.76 (0.0299 + 0.0299)
1.31 - 1.35 (0.0516 - 0.0531)	1.56 (0.0614)	0.64 + 0.92 (0.0252 + 0.0362)
1.35 - 1.39 (0.0531 - 0.0547)	1.60 (0.0630)	0.68 + 0.92 (0.0268 + 0.0362)
1.39 - 1.43 (0.0547 - 0.0563)	1.64 (0.0646)	0.72 + 0.92 (0.0283 + 0.0362)
1.43 - 1.47 (0.0563 - 0.0579)	1.68 (0.0661)	0.76 + 0.92 (0.0299 + 0.0362)
1.47 - 1.51 (0.0579 - 0.0594)	1.72 (0.0677)	0.40 + 1.32 (0.0157 + 0.0520)
1.51 - 1.55 (0.0594 - 0.0610)	1.76 (0.0693)	0.44 + 1.32 (0.0173 + 0.0520)
1.55 - 1.59 (0.0610 - 0.0626)	1.80 (0.0709)	0.48 + 1.32 (0.0189 + 0.0520)
1.59 - 1.63 (0.0626 - 0.0642)	1.84 (0.0724)	0.52 + 1.32 (0.0205 + 0.0520)
1.63 - 1.67 (0.0642 - 0.0657)	1.88 (0.0740)	0.56 + 1.32 (0.0220 + 0.0520)
1.67 - 1.71 (0.0657 - 0.0673)	1.92 (0.0756)	0.60 + 1.32 (0.0236 + 0.0520)
1.71 - 1.75 (0.0673 - 0.0689)	1.96 (0.0772)	0.64 + 1.32 (0.0252 + 0.0520)
1.75 - 1.79 (0.0689 - 0.0705)	2.00 (0.0787)	0.68 + 1.32 (0.0268 + 0.0520)
1.79 - 1.83 (0.0705 - 0.0720)	2.04 (0.0803)	0.72 + 1.32 (0.0283 + 0.0520)

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment (Cont'd)

AVAILABLE SNAP RINGS

Ring gear snap rings

(VTY10A)

Unit: mm (in)

Thickness	Part number
3.00 (0.1181)	33138-10R00
3.04 (0.1197)	33138-10R01
3.08 (0.1213)	33138-10R02
3.12 (0.1228)	33138-10R03
3.16 (0.1244)	33138-10R04
3.20 (0.1260)	33138-10R05
3.24 (0.1276)	33138-10R06
3.28 (0.1291)	33138-10R07
3.32 (0.1307)	33138-10R08
3.36 (0.1323)	33138-10R09
3.40 (0.1339)	33138-10R10
3.44 (0.1354)	33138-10R11
3.48 (0.1370)	33138-10R12
3.52 (0.1386)	33138-10R13
3.56 (0.1402)	33138-10R14
3.60 (0.1417)	33138-10R15
3.64 (0.1433)	33138-10R16

Table for selecting suitable ring gear snap ring

(VTY10A)

Unit: mm (in)

Measured clearance	Thickness of suitable snap ring
0.00 - 0.04 (0.0000 - 0.0016)	3.00 (0.1181)
0.04 - 0.08 (0.0016 - 0.0031)	3.04 (0.1197)
0.08 - 0.12 (0.0031 - 0.0047)	3.08 (0.1213)
0.12 - 0.16 (0.0047 - 0.0063)	3.12 (0.1228)
0.16 - 0.20 (0.0063 - 0.0079)	3.16 (0.1244)
0.20 - 0.24 (0.0079 - 0.0094)	3.20 (0.1260)
0.24 - 0.28 (0.0094 - 0.0110)	3.24 (0.1276)
0.28 - 0.32 (0.0110 - 0.0126)	3.28 (0.1291)
0.32 - 0.36 (0.0126 - 0.0142)	3.32 (0.1307)
0.36 - 0.40 (0.0142 - 0.0157)	3.36 (0.1323)
0.40 - 0.44 (0.0157 - 0.0173)	3.40 (0.1339)
0.44 - 0.48 (0.0173 - 0.0189)	3.44 (0.1354)
0.48 - 0.52 (0.0189 - 0.0205)	3.48 (0.1370)
0.52 - 0.56 (0.0205 - 0.0220)	3.52 (0.1386)
0.56 - 0.60 (0.0220 - 0.0236)	3.56 (0.1402)
0.60 - 0.64 (0.0236 - 0.0252)	3.60 (0.1417)
0.64 - 0.68 (0.0252 - 0.0268)	3.64 (0.1433)

(FTY10A)

Unit: mm (in)

Thickness	Part number
4.00 (0.1575)	33138-56E00
4.04 (0.1591)	33138-56E01
4.08 (0.1606)	33138-56E02
4.12 (0.1622)	33138-56E03
4.16 (0.1638)	33138-56E04
4.20 (0.1654)	33138-56E05
4.24 (0.1669)	33138-56E06
4.28 (0.1685)	33138-56E07
4.32 (0.1701)	33138-56E08
4.36 (0.1717)	33138-56E09
4.40 (0.1732)	33138-56E10
4.44 (0.1748)	33138-56E11
4.48 (0.1764)	33138-56E12
4.52 (0.1780)	33138-56E13
4.56 (0.1795)	33138-56E14
4.60 (0.1811)	33138-56E15
4.64 (0.1827)	33138-56E16

(FTY10A)

Unit: mm (in)

Measured clearance	Thickness of suitable snap ring
0.00 - 0.04 (0.0000 - 0.0016)	4.00 (0.1575)
0.04 - 0.08 (0.0016 - 0.0031)	4.04 (0.1591)
0.08 - 0.12 (0.0031 - 0.0047)	4.08 (0.1606)
0.12 - 0.16 (0.0047 - 0.0063)	4.12 (0.1622)
0.16 - 0.20 (0.0063 - 0.0079)	4.16 (0.1638)
0.20 - 0.24 (0.0079 - 0.0094)	4.20 (0.1654)
0.24 - 0.28 (0.0094 - 0.0110)	4.24 (0.1669)
0.28 - 0.32 (0.0110 - 0.0126)	4.28 (0.1685)
0.32 - 0.36 (0.0126 - 0.0142)	4.32 (0.1701)
0.36 - 0.40 (0.0142 - 0.0157)	4.36 (0.1717)
0.40 - 0.44 (0.0157 - 0.0173)	4.40 (0.1732)
0.44 - 0.48 (0.0173 - 0.0189)	4.44 (0.1748)
0.48 - 0.52 (0.0189 - 0.0205)	4.48 (0.1764)
0.52 - 0.56 (0.0205 - 0.0220)	4.52 (0.1780)
0.56 - 0.60 (0.0220 - 0.0236)	4.56 (0.1795)
0.60 - 0.64 (0.0236 - 0.0252)	4.60 (0.1811)
0.64 - 0.68 (0.0252 - 0.0268)	4.64 (0.1827)

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment (Cont'd)

Hypoid gear shims (VTY10A & FTY10A)

Unit: mm (in)

Thickness	Part number
0.40 (0.0157)	33147-06R00
0.44 (0.0173)	33147-06R01
0.48 (0.0189)	33147-06R02
0.60 (0.0236)	33147-06R03
0.64 (0.0252)	33147-06R04
0.68 (0.0268)	33147-06R06
0.72 (0.0283)	33147-06R07
0.76 (0.0299)	33147-06R05

Table for selecting suitable hypoid gear shim

(VTY10A)

Unit: mm (in)

Dimension "D"	Suitable shim thickness	Appropriate shim
70 - 74 (2.76 - 2.91)	0.80 (0.0315)	0.40 + 0.40 (0.0157 + 0.0157)
74 - 78 (2.91 - 3.07)	0.84 (0.0331)	0.40 + 0.44 (0.0157 + 0.0173)
78 - 82 (3.07 - 3.23)	0.88 (0.0346)	0.40 + 0.48 (0.0157 + 0.0189)
82 - 86 (3.23 - 3.39)	0.92 (0.0362)	0.44 + 0.48 (0.0173 + 0.0189)
86 - 90 (3.39 - 3.54)	0.96 (0.0378)	0.48 + 0.48 (0.0189 + 0.0189)
90 - 94 (3.54 - 3.70)	1.00 (0.0394)	0.40 + 0.60 (0.0157 + 0.0236)
94 - 98 (3.70 - 3.86)	1.04 (0.0409)	0.44 + 0.60 (0.0173 + 0.0236)
98 - 102 (3.86 - 4.02)	1.08 (0.0425)	0.48 + 0.60 (0.0189 + 0.0236)
102 - 106 (4.02 - 4.17)	1.12 (0.0441)	0.48 + 0.64 (0.0189 + 0.0252)
106 - 110 (4.17 - 4.33)	1.16 (0.0457)	0.48 + 0.68 (0.0189 + 0.0268)
110 - 114 (4.33 - 4.49)	1.20 (0.0472)	0.48 + 0.72 (0.0189 + 0.0283)

(FTY10A)

Unit: mm (in)

Dimension "C"	Suitable shim thickness	Appropriate shim
78 - 81 (3.07 - 3.19)	0.80 (0.0315)	0.40 + 0.40 (0.0157 + 0.0157)
82 - 85 (3.23 - 3.35)	0.84 (0.0331)	0.40 + 0.44 (0.0157 + 0.0173)
86 - 89 (3.39 - 3.50)	0.88 (0.0346)	0.40 + 0.48 (0.0157 + 0.0189)
90 - 93 (3.54 - 3.66)	0.92 (0.0362)	0.44 + 0.48 (0.0173 + 0.0189)
94 - 97 (3.70 - 3.82)	0.96 (0.0378)	0.48 + 0.48 (0.0189 + 0.0189)
98 - 101 (3.86 - 3.98)	1.00 (0.0394)	0.40 + 0.60 (0.0157 + 0.0236)
102 - 105 (4.02 - 4.13)	1.04 (0.0409)	0.44 + 0.60 (0.0173 + 0.0236)
106 - 109 (4.17 - 4.29)	1.08 (0.0425)	0.48 + 0.60 (0.0189 + 0.0236)
110 - 113 (4.43 - 4.45)	1.12 (0.0441)	0.48 + 0.64 (0.0189 + 0.0252)
114 - 117 (4.49 - 4.61)	1.16 (0.0457)	0.48 + 0.68 (0.0189 + 0.0268)
118 - 121 (4.65 - 4.76)	1.20 (0.0472)	0.48 + 0.72 (0.0189 + 0.0283)

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Inspection and Adjustment (Cont'd)

Pinion sleeve shims (VTY10A & FTY10A)

Unit: mm (in)

Thickness	Part number
0.40 (0.0157)	33155-10R00
0.44 (0.0173)	33155-10R01
0.48 (0.0189)	33155-10R02
0.52 (0.0205)	33155-10R03
0.56 (0.0220)	33155-10R04
0.60 (0.0236)	33155-10R05
0.64 (0.0252)	33155-10R06
0.68 (0.0268)	33155-10R07
0.72 (0.0283)	33155-10R08
0.76 (0.0299)	33155-10R09

Table for selecting suitable pinion sleeve shim

(VTY10A & FTY10A)

Unit: mm (in)

Dimension "H"	Suitable shim thickness	Appropriate shim
0.64 - 0.67 (0.0252 - 0.0264)	0.84 (0.0331)	0.40 + 0.44 (0.0157 + 0.0173)
0.68 - 0.71 (0.0268 - 0.0280)	0.88 (0.0346)	0.40 + 0.48 (0.0157 + 0.0189)
0.72 - 0.75 (0.0283 - 0.0295)	0.92 (0.0362)	0.40 + 0.52 (0.0157 + 0.0205)
0.76 - 0.79 (0.0299 - 0.0311)	0.96 (0.0378)	0.40 + 0.56 (0.0157 + 0.0220)
0.80 - 0.83 (0.0315 - 0.0327)	1.00 (0.0394)	0.40 + 0.60 (0.0157 + 0.0236)
0.84 - 0.87 (0.0331 - 0.0343)	1.04 (0.0409)	0.40 + 0.64 (0.0157 + 0.0252)
0.88 - 0.91 (0.0346 - 0.0358)	1.08 (0.0425)	0.40 + 0.68 (0.0157 + 0.0268)
0.92 - 0.95 (0.0362 - 0.0374)	1.12 (0.0441)	0.40 + 0.72 (0.0157 + 0.0283)
0.96 - 0.99 (0.0378 - 0.0390)	1.16 (0.0457)	0.40 + 0.76 (0.0157 + 0.0299)
1.00 - 1.03 (0.0394 - 0.0406)	1.20 (0.0472)	0.44 + 0.76 (0.0173 + 0.0299)
1.04 - 1.07 (0.0409 - 0.0421)	1.24 (0.0488)	0.48 + 0.76 (0.0189 + 0.0299)
1.08 - 1.11 (0.0425 - 0.0437)	1.28 (0.0504)	0.52 + 0.76 (0.0205 + 0.0299)
1.12 - 1.15 (0.0441 - 0.0453)	1.32 (0.0520)	0.56 + 0.76 (0.0220 + 0.0299)
1.16 - 1.19 (0.0457 - 0.0469)	1.36 (0.0535)	0.60 + 0.76 (0.0236 + 0.0299)
1.20 - 1.23 (0.0472 - 0.0484)	1.40 (0.0551)	0.64 + 0.76 (0.0252 + 0.0299)
1.24 - 1.27 (0.0488 - 0.0500)	1.44 (0.0567)	0.68 + 0.76 (0.0268 + 0.0299)
1.28 - 1.31 (0.0504 - 0.0516)	1.48 (0.0583)	0.72 + 0.76 (0.0283 + 0.0299)
1.32 - 1.35 (0.0520 - 0.0531)	1.52 (0.0598)	0.76 + 0.76 (0.0299 + 0.0299)

Front differential side bearing adjusting shims

(FTY10A only)

Unit: mm (in)

Side bearing end play	0.05 - 0.20 (0.0020 - 0.0079)
Thickness mm (in)	Part number
0.40 (0.0157)	33147-06R00
0.44 (0.0173)	33147-06R01
0.48 (0.0189)	33147-06R02
0.60 (0.0236)	33147-06R03
0.64 (0.0252)	33147-06R04
0.68 (0.0268)	33147-06R06
0.72 (0.0283)	33147-06R07
0.76 (0.0299)	33147-06R05

AVAILABLE WASHERS

Front differential side gear thrust washers

(FTY10A only)

Unit: mm (in)

Clearance between side gear and differential case	0.1 - 0.2 (0.004 - 0.008)
Thickness mm (in)	Part number
0.75 - 0.80 (0.0295 - 0.0315)	38424-E3000
0.80 - 0.85 (0.0315 - 0.0335)	38424-E3001
0.85 - 0.90 (0.0335 - 0.0354)	38424-E3002
0.90 - 0.95 (0.0354 - 0.0374)	38424-E3003

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Propeller Shaft

GENERAL SPECIFICATIONS

Engine	SR20DET	GA16DS
Propeller shaft model	4F63A-VL91	4F56A-VL91
Number of joints	4	
Coupling method with transfer	Flange type	
Type of journal bearings	Shell type (Non-disassembly type)	
Shaft length (Joint to joint) mm (in)		
1st	588 (23.15)	560 (22.05)
2nd	500 (19.69)	507 (19.96)
3rd	680 (26.77)	690 (27.17)
Shaft outer diameter mm (in)		
1st	70 (2.76)	
2nd	63.5 (2.500)	
3rd	70 (2.76)	

INSPECTION AND ADJUSTMENT

Unit: mm (in)

Propeller shaft model	4F63A-VL91, 4F56A-VL91
Propeller shaft runout limit	0.6 (0.024)
Journal axial play	0 (0)

Final Drive

GENERAL SPECIFICATIONS

Engine	GA16DS	SR20DET
Final drive model	R180	R180V
Ring gear pitch diameter mm (in)	181 (7.13)	
Gear ratio	3.700	
Number of teeth (Ring gear/Drive pinion)	37/10	
Oil capacity (approx.) ℓ (Imp pt)	1.0 (1-3/4)	
Differential case	2 pinion	Viscous L.S.D.

Available pinion height adjusting washers

Thickness mm (in)	Part number
3.09 (0.1217)	38154-P6017
3.12 (0.1228)	38154-P6018
3.15 (0.1240)	38154-P6019
3.18 (0.1252)	38154-P6020
3.21 (0.1264)	38154-P6021
3.24 (0.1276)	38154-P6022
3.27 (0.1287)	38154-P6023
3.30 (0.1299)	38154-P6024
3.33 (0.1311)	38154-P6025
3.36 (0.1323)	38154-P6026
3.39 (0.1335)	38154-P6027
3.42 (0.1346)	38154-P6028
3.45 (0.1358)	38154-P6029
3.48 (0.1370)	38154-P6030
3.51 (0.1382)	38154-P6031
3.54 (0.1394)	38154-P6032
3.57 (0.1406)	38154-P6033
3.60 (0.1417)	38154-P6034
3.63 (0.1429)	38154-P6035
3.66 (0.1441)	38154-P6036

INSPECTION AND ADJUSTMENT

Drive pinion bearing adjusting method	Pinion bearing adjusting washer
Ring gear backlash mm (in)	0.10 - 0.20 (0.0039 - 0.0079)
Drive pinion preload (With front oil seal) N·m (kg-cm, in-lb)	1.1 - 1.7 (11 - 17, 9.5 - 14.8)
Total preload N·m (kg-cm, in-lb)	1.0 - 1.6 (10 - 16, 8.7 - 14)
Side bearing adjusting method	Adjusting shim
Side gear to pinion mate gear backlash (Clearance between side gear and differential case) mm (in)	0.10 - 0.20 (0.0039 - 0.0079)
Ring gear runout mm (in)	0.05 (0.0020)

SERVICE DATA AND SPECIFICATIONS (S.D.S.)

Final Drive (Cont'd)

Available drive pinion bearing preload adjusting washers

Thickness mm (in)	Part number
6.31 (0.2484)	38127-01G14
6.33 (0.2492)	38127-01G13
6.35 (0.2500)	38127-01G12
6.37 (0.2508)	38127-01G11
6.39 (0.2516)	38127-01G10
6.41 (0.2524)	38127-01G09
6.43 (0.2531)	38127-01G08
6.45 (0.2539)	38127-01G07
6.47 (0.2547)	38127-01G06
6.49 (0.2555)	38127-01G05
6.51 (0.2563)	38127-01G04
6.53 (0.2571)	38127-01G03
6.55 (0.2579)	38127-01G02
6.57 (0.2587)	38127-01G01
6.59 (0.2594)	38127-01G00

Available drive pinion bearing preload adjusting spacers

Length mm (in)	Part number
52.20 (2.0551)	38130-78500
52.40 (2.0630)	38131-78500
52.60 (2.0709)	38132-78500
52.80 (2.0787)	38133-78500
53.00 (2.0866)	38134-78500
53.20 (2.0945)	38135-78500

Available side bearing adjusting washers

Thickness mm (in)	Part number
0.20 (0.0079)	38453-21100
0.25 (0.0098)	38453-21101
0.30 (0.0118)	38453-21102
0.40 (0.0157)	38453-21103
0.50 (0.0197)	38453-21104

Available side gear thrust washers

	Thickness mm (in)	Part number
Standard type	0.75 - 0.78 (0.0295 - 0.0307)	38424-W2010
	0.78 - 0.81 (0.0307 - 0.0319)	38424-W2011
	0.81 - 0.84 (0.0319 - 0.0331)	38424-W2012
	0.84 - 0.87 (0.0331 - 0.0343)	38424-W2013
	0.87 - 0.90 (0.0343 - 0.0354)	38424-W2014
	0.90 - 0.93 (0.0354 - 0.0366)	38424-W2015
	0.93 - 0.96 (0.0366 - 0.0378)	38424-W2016
	0.96 - 0.99 (0.0378 - 0.0390)	38424-W2017
Viscous type	0.80 (0.0315)	38424-20R00
	0.85 (0.0335)	38424-20R11
	0.90 (0.0354)	38424-20R01
	0.95 (0.0374)	38424-20R12
	1.00 (0.0394)	38424-20R02
	1.05 (0.0413)	38424-20R13
	1.10 (0.0433)	38424-20R03
	1.15 (0.0453)	38424-20R08
	1.20 (0.0472)	38424-20R04
	1.25 (0.0492)	38424-20R09
	1.30 (0.0512)	38424-20R05
	1.35 (0.0531)	38424-20R10
	1.40 (0.0551)	38424-20R06
	1.45 (0.0571)	38424-20R14
	1.50 (0.0591)	38424-20R07
	1.55 (0.0610)	38424-20R15
	1.60 (0.0630)	38424-20R16
	1.65 (0.0650)	38424-20R17
	1.70 (0.0669)	38424-20R18
	1.75 (0.0689)	38424-20R19
	1.80 (0.0709)	38424-20R20
	1.85 (0.0728)	38424-20R21
	1.90 (0.0748)	38424-20R22
	1.95 (0.0768)	38424-20R23