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MEASUREMENTS	TD-	2
ENGINE	TD-	2
LUBRICATING SYSTEM		
COOLING SYSTEM	TD-	4
FUEL AND EMISSION CONTROL		
SYSTEMS (EGI)	TD-	Ę
FUEL AND EMISSION CONTROL		
SYSTEMS (EGI TURBO)	TD-	•
ENGINE ELECTRICAL SYSTEM		
CLUTCH	TD-	8
MANUAL TRANSMISSION	TD-	8
AUTOMATIC TRANSMISSION		
PROPELLER SHAFT		
FRONT AND REAR AXLES		
STEERING SYSTEM		
BRAKING SYSTEM		
WHEELS AND TIRES	TD-	14
SUSPENSION		
BODY ELECTRICAL SYSTEM	TD-	16
HEATING AND AIR CONDITIONING		
SYSTEMS	TD-	17
STANDARD BOLT AND NUT		
TIGHTENING TORQUE		
	97LITDY-	On:

### A. MEASUREMENTS

ltem			Specification		
Overall length	· · · · · · · · · · · · · · · · · · ·	mm (in)	4,315 (169.9) 4,310 (169.7) (With license plate holder)		
Overall width		mm (in)	1,690 (66.5)		
Overall height		mm (in)	1,265 (49.8)		
Wheelbase		mm (in)	2,430 (95.7)		
	(:-)	Front	1,450 (57.1)		
Tread	mm (in)	Rear	1,440 (56.7)		

### C. ENGINE

Item			Engin	e model	RE 13B (TURBO)	RE 13B (NON-TURBO)	
Type	Туре				Rotar	y engine	
Displacer	nent		C	c (cu in)	654x2 (40.0x2)		
Number of rotors and arrangement			2 rotors,	longitudinal			
	ion chamber t		-		В	athtub	
Compres					9.0:1	9.7:1	
	1		Primary		45° ATDC	32° ATDC	
		Open	Second	arv	329	ATDC	
		- P	Auxiliary		<del></del>	45° ATDC	
Port	Intake		Primary		50° ABDC	40° ABDC	
timing		Close	Second		50° ABDC	30° ABDC	
		0.000	Auxiliar		_	80° ABDC	
	-	Open	rtaxillar	′	759	BBDC	
	Exhaust	Close				ATDC	
Compress	sion pressure	Minimum				.0, 85)-250	
kPa (kg/c	m², psi)-rpm	Maximum difference b	etween ch	ambers	2	.5, 21)-250	
(	, , , , , ,	Distortion limit		mm (in)		(0.0016)	
		Side seal wear limit mm (in)			0.10 (0.0039)		
Side hou	sina	Side seal wear limit, overlapping					
(Front, in	termediate	oil seal wear mm (in)			0.01 (0.0004)		
and rear	r housing)	Side seal wear limit,			0.10	(0.0039)	
		outside oil seal wear mm (in)			0.10	(0.0039)	
		Oil seal wear limit mm (in)			0.02 (0.0008)		
Date: he		Width	mm (in)		79.970—80.010 (3.1484—3.1500)		
Rotor ho	using	Maximum width diff	width difference mm (in)		0.06 (0.0024)		
		Width (Apex) mm (in)		79.800—79.850 (3.1417—3.1437)			
		Clearance of side housing Standard		0.12—0.21 (0.0047—0.0083)			
D-1		to rotor	mm (in)	Min.		(0.0039)	
Rotor		Diameter of corner se	al groove	mm (in)	11.000—11.018 (0.4331—0.04338)		
		Width of side seal (	groove	mm (in)	0.7140.739	(0.0281—0.0291)	
		Width of apex seal	groove	mm (in)	1.9952.012	(0.0785—0.0792)	
	<u> </u>	Width		mm (in)	1.910—1.939	(0.0752—0.0763)	
		Height (upper and	lower)	Standard		(0.315)	
			mm (in)	Min.		NGINE INSPECTION section	
		Clearance of apex	seal	Standard	0.062-0.102 (0.0024-0.004	0) 0.051—0.101 (0.0020—0.0040)	
Apex sea	al and spring	and rotor groove	mm (in)	Max.	0.15 (0.0059)		
•			Long	Standard	6.2	5 (0.246)	
		Spring free height	Long	Min.		3 (0.181)	
		mm (in)	Short	Standard		3 (0.130)	
			Short	Min.	1.7 (0.067)—Refer to E	NGINE INSPECTION section	

### TECHNICAL DATA TD

Item	Engin	e model	RE 13B (TURBO)	RE 13B (NON-TURBO)
	Thickness	mm (in)	0.661—0.686 (	0.0260—0.0270)
	Clearance of side seal to	Standard	0.028—0.078 (0	0.0011—0.0031)
	rotor groove mm (in)	Max.	0.10 (0	0.0039)
Side seal and spring	Height	mm (in)	2.85—3.15 (0.	1122-0.1240)
	Protrusion min.	mm (in)	0.50 (	(0.020)
	Clearance of side seal to	Standard	0.05—0.15 (0.	.0020—0.0059)
	corner seal mm (in)	Max.		(0.016)
	Outer diameter	mm (in)	10.990—11.014	(0.4327—0.4336)
Corner seal and	Height	mm (in)	6.8—7.0 (0.	.268—0.276)
spring	Protrusion min.	mm (in)	0.50 (	(0.020)
	Height	mm (in)	5.6—5.8 (0.	220—0.228)
Rotor oil seal and	Oil seal lip width max.	mm (in)	0.50 (0.020)	
spring	Protrusion min.	mm (in)	0.50 (	(0.020)
Main bearing	Inner diameter	mm (in)	43.025-43.050 (1.6939-1.6949)	
Rotor bearing	Inner diameter	mm (in)	74.025—74.050	(2.9144—2.9153)
	Runout max.	mm (in)	0.06 (0.0027)	
	5 - d - t	Standard 0.040—0.070 (0.0016—0		0.0016—0.0028)
	End play mm (in)	Limit	0.09 (0.0035)	
	Main journal diameter	mm (in)	42.970—42.985 (1.6917—1.6923)	
Eccentric shaft	Clearance of main journal	Standard	0.040—0.080 (	0.00160.0031)
	mm (in)	Limit	0.10 (	0.0039)
	Rotor journal diameter	mm (in)	73.970—73.985	(2.91222.9128)
	Clearance of rotor journal	Standard	0.040—0.080 (	0.0016—0.0031)
	mm (in)	Limit	0.10 (0.0039)	
	Alternator	Used	14—17 (0.55—0.67)	
Drive belt deflection	Air pump	Used	11—13 (0.43—0.51)	
at 98 N (10 kg, 22 lb) mm (in)	A/C compressor	Used		31—0.35)
11011 (E1)	P/S pump	Used	14.0-16.0	(0.55-0.63)

### D. LUBRICATING SYSTEM

Item	Engir	ne model	RE 13B (TURBO)	RE 13B (NON-TURBO)
Lubrication system			Ford	ed-fed
	Туре		Tro	choid
	Lobe clearance of outer	Standard	0.03-0.12 (0	0.0012—0.0047)
Oil pump	rotor to inner rotor mm (in)	Max.	0.15	(0.0059)
	Clearance of outer rotor to	Standard	0.20—0.25 (0.0079—0.098)	
	pump body mm (in)	Max.	0.30 (0.0118)	
		Standard	0.03-0.125 (0.00120.0049)	
	End float mm (in)	Max.	0.15 (0.0059)	
Pressure control valve	Relief pressure kPa (kg	/cm², psi)	1,079 (	11.0, 156)
	Туре		Air-cooled, with bypass valve	
	Relief temperature	°C (°F)	60-65 (140-149) or below	
Oil cooler	Relief pressure dif. kPa (kg	/cm², psi)	349 (3.56, 50) at 60°C (140°F)	
	Bypass valve protrusion	mm (in)	5 (0.2) or more	

item		Engine model	RE 13B (TURBO)	RE 13B (NON-TURBO)	
Regulator valve	Relief pressure	kPa (kg/cm², psi)	490 (	5.0, 71)	
Oil filter	Туре		Full flow, p	paper element	
Oil filter	Relief pressure dif.	kPa (kg/cm², psi)	98 (*	1.0, 14)	
Eccentric shaft	Relief temperature	°C (°F)	60 (140	) or below	
bypass valve	Protrusion	mm (in) 6 (0.24) or more		) or more	
	-	Total (dry engine)	5.8 (6.1, 5.1)		
	0	Oil pan	4.4 (4.7, 3.9)		
	Capacity liters (US qt, Imp qt)	Oil cooler	0.85 (0.90, 0.75)		
Engine oil	more (ee qr, mp qr)	Oil filter	0.19 (0.20, 0.17)Factory installed 0.17 (0.18, 0.15)Service parts		
	Classification		API service "Fuel efficient" SG (Mineral only)		
	Above -25° (-10°	F)	10W-30		
	Below 0°C (32°F)		5W-30		

### E. COOLING SYSTEM

Item	Engin	RE 13B (TURI	BO)	RE 13	B (NON-TURBO)	
Cooling method			Water-cooled, forced circulation			
Water pump	Туре			Centrifuga	al impeller	
water pump	Pulley ratio (Speed)			1:1	.22	
	Туре		,	Wax, botto	m bypass	
Thermostat	Opening temperature	°C (°F)	8	0.5—83.5	(177 - 182)	?)
i iliomiostat	Full-open temperature	°C (°F)		95 (	203)	
	Full-open lift min.	mm (in)		8-10 (0.	31—0.39)	
Radiator	Туре			Corruga	ated fin	
Coolant filler cap	Relief pressure kPa (kg/	74—103 (0.75—1.05, 11—15)				
	Cooling fan			Thermo-rr	nodulated	
Cooling fan	Number of blades	of blades 10				
	Outer diameter	mm (in)		390 (*	15.35)	
	Туре	Electrical				
Electric cooling fan	Capacity W		90			•
Liectife cooling fair	Number of blades	5				
	Outer diameter	255 (10.04)				
Drive belt deflection at	Alternator	Used		14—17 (0.55—0.67)		
98 N (10 kg, 22 lb) mm (in)	Air pump	Used		11—13 (0	.43—0.51)	
Coolant	Capacity liters (US q	t, Imp qt)	8.7 (9.2, 7.7	<b>'</b> )	7	'.3 (7.7, 6.4)
		Mixture	Mixture per	centage %	6	Specific gravity at
	Protection		Water	Antifi	eeze	20°C (68°F)
Antifreeze solution	Above -16°C (3°F)		65	3	5	1.054
	Above -26°C (-15°F)		55	4	5	1.066
	Above -40°C (-40°)		45	5	5	1.078

### F1. FUEL AND EMISSION CONTROL SYSTEMS (EGI)

	Item		Specification			
Fuel tank capacity liters (US gal, Imp gal)			70 (18.5, 15.4)			
	_	Low pressure	Nylon 6 (164 and 45 mesh)			
Fuel filter	Туре	High pressure	Filter paper			
	Туре	1 .9 1	Impeller (intank)			
Fuel pump	Output pressure	kPa (kg/cm², psi)	441—588 (4.5—6.0, 64.0—85.3)			
	Туре		Diaphragm			
Pressure regulator	Regulated pressure	e kPa (kg/cm², psi)	235—275 (2.4—2.8, 34.1—39.8)			
	Туре		Horizontal-draft (2 stages, 3 barrel)			
		Primary mm (in)	45 (1.772)			
Throttle body	Throat diameter	Secondary mm (in)	45 (1.772)x2			
11110ttle 504)	Water thermo valve		M/T; 67—77 (153—171) or more			
		°Ć (°F)	A/T; 60—70 (140—158) or more			
Air cleaner	Element type		Long life wet			
Accelerator cable	Deflection	mm (in)	1—3 (0.04—0.12)			
Idle speed (Test co	onnector grounded)	rpm	750 ± 25 (A/T; in P range)			
Dashpot	Adjustment speed	rpm	2,700—3,100			
Injector	Drive		Voltage drive			
(Primary and	Injection volume	cc (cu in)/15 sec.	111—118 (6.8—7.2)			
secondary)	Resistance	Ω	12—16			
	Resistance	E2 ↔ Vc Ω	200-400 (Closed ↔ Open; 20°C (68°F))			
Airflow meter		F- 1/ 0	200-1,000 (Closed; 20°C (68°F))			
7 1111/2		E2 ↔ Vs Ω	20-800 (Open; 20°C (68°F))			
	Resistance	-20°C (-4°F) kΩ	16.2 ± 1.6			
Water thermo-		20°C (68°F) kΩ	2.5 ± 0.2			
sensor		80°C (176°F) kΩ	0.3 ± 0.1			
Heat hazard sensor	Operation tempera	ture °C (°F)	105—115 (221—239)			
		-20°C (-4°F) Ω	10,000—20,000			
		0°C (32°F) Ω	4,000—7,000			
	Airflow meter	20°C (68°F) Ω	2,000—3,000			
Intake air		40°C (104°F) Ω	900—1,300			
thermosensor	1	60°C (140°F) Ω	400—700			
1	Dynamic	25°C (77°F) kΩ	33 ± 4			
	chamber	85°C (185°F) kΩ	$3.5 \pm 0.4$			
Throttle sensor	Voltage	2G V	Idle position; 0.25—1.25			
(Full range)	VUIIage	\	Full open; 4.1—4.4			
Throttle sensor (Narrow range)	Voltage	2F V	Idle position; 0.75—1.25 Full open; Approx. 5			
Solenoid valve (BAC)	Resistance	Ω	10.7—12.3			
Solenoid valve (AWS)	Resistance	Ω	9.3—11.3			
Circuit opening	Designation	STA ↔ E1 Ω	21—43			
relay	Resistance	B ↔ Fc Ω	109—226			

### F2. FUEL AND EMISSION CONTROL SYSTEMS (EGI TURBO)

	ltem		Specification		
Fuel tank capacity	lit	ers (US gal, Imp gal)	70 (18.5, 15.4)		
Fuel filter	Type	Low pressure	Nylon 6 (164 and 45 mesh)		
r der miler	туре	High pressure	Filter paper		
Fuel pump	Туре		Impeller (intank)		
ruei puilip	Output pressure	kPa (kg/cm², psi)	490—637 (5.0—6.5, 71.1—92.4)		
Droopure regulator	Туре		Diaphragm		
Pressure regulator	Regulated pressure	e kPa (kg/cm², psi)	235-275 (2.4-2.8, 34.1-39.8)		
	Туре		Horizontal-draft (2 stage, 3 barrel)		
	Throat diameter	Primary mm (in)	45 (1.772)		
Throttle body	inroat diameter	Secondary mm (in)	45 (1.772)x2		
	Water thermo valve	operation temp. °C (°F)	55—65 (131—149) or more		
Air cleaner	Element type		Long life wet		
Accelerator cable	Deflection	mm (in)	1—3 (0.04—0.12)		
Idle speed (Test co	onnector grounded)	rpm	750 ± 25		
Dashpot	Adjustment (Throttle range) resistance (	e sensor (narrow	1.8—3.8		
Injector	Drive		Voltage drive		
(Primary and	Injection volume	cc (cu in)/15 sec.	133—142 (8.1—8.7)		
secondary)	Resistance	Ω	12—16		
	Resistance	E2 ↔ Vc Ω	200-400 (Closed ↔ Open; 20°C (68°F))		
Airflow meter		E <sub>2</sub> ↔ V <sub>s</sub> Ω	200—1,000 (Closed; 20°C (68°F))		
		E2 ↔ Vs Ω	20-800 (Open; 20°C (68°F))		
Motor thorne		-20°C (-4°F) kΩ	16.2 ± 1.6		
Water thermo- sensor	Resistance	20°C (68°F) kΩ	2.5 ± 0.2		
	<u>L</u>	80°C (176°F) kΩ	$0.3 \pm 0.1$		
Heat hazard sensor	Operation tempera	ture °C (°F)	105—115 (221—239)		
_ <del>_</del>		-20°C (-4°F) Ω	10,000—20,000		
		0°C (32°F) Ω	4,000—7,000		
Intake air	Airflow meter	20°C (68°F) Ω	2,000—3,000		
thermosensor		40°C (104°F) Ω	900—1,300		
		60°C (140°F) Ω	400—700		
	Engine	20°C (68°F) kΩ	33 ± 4		
	(Intake air pipe)	85°C (185°F) kΩ	$3.5 \pm 0.4$		
Throttle sensor (Full range)	Resistance	2G V	Idle position; 0.25—1.25 Full open; 4.1—4.4		
Throttle sensor (Narrow range)	Resistance	2F V	Idle position; 0.75—1.25 Full open; Approx. 5		
Solenoid valve (BAC)	Resistance	Ω	10.7—12.3		
Solenoid valve (AWS)	Resistance	Ω	9.3—11.3		
Solenoid valve (ASV)	Resistance	Ω	16.5—23.5		
Circuit opening relay	Resistance	$\begin{array}{ccc} STA \leftrightarrow E1 & \Omega \\ B \leftrightarrow Fc & \Omega \end{array}$	21-43 109-226		
-	Туре	<u> </u>	Water cooled		
Turbooharaar	1 / 1 -		**aici		
Turbocharger	Lubrication		Engine oi!		

# TECHNICAL DATA TD

	Item	<u> </u>	Specification	
Waste gate valve	<u> </u>		Incorporated with turbocharger	
Intercooler Type				Air cooled
	Knock control system knocking frequency kHz			$3.5 \pm 0.3$
TOOK GOING O	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	a-b	Ω	0
Fuel pump resistor relay	Resistance	c-d	Ω	60—92
	, 1331-1317-3	e—f	Ω	0.74—0.94

### G. ENGINE ELECTRICAL SYSTEM

Item				Model	M/T (EGI)	A/T (EGI)	M/T (EGI TURBO		
Charging syste									
Charging syst	Туре			•	Maintenance free,	55D23L, 65D23L (65	D23L: Coldproof area		
	Voltage		<u> </u>			12			
						55 (65D23L)			
Battery	Capacity	y		Ah		60 (55D23L)			
,	Specific	gravity at	Recharge	at		1.230			
	20°C (6	8°F)	Fully charg	ged		1.280			
	Chargin	g current		Α	55D23	3L: Max. 6 65D23L;	Max. 5.5		
	Type					A/C type			
	Voltage	capacity		V-A		12-80			
	Pulley r	atio				1:2.03			
	Load te	ct	Current	A		Min. 60			
Alternator		Si	Speed	rpm		2,500			
		ed voltage		<u>V</u>		14.1—14.7			
		Number			2				
	Brush	Length	Standard		21.5 (0.846)				
	Brush	mm (in)	Limit			8 (0.315)	0.07\		
		Spring for	<u>:e                                    </u>	1 (kg, lb)	2.9—4.3 (0.3—0.44, 0.66—0.97)				
Starter system							1.2		
	Output		Voltage	kW	1.2	11.0	1.2		
	1	Free running test		<u>V</u>	Max. 90				
	Free ru			A	Max. 90 Min. 3,000				
			Speed	rpm V	Min. 3,000				
	1		Voltage	<u>V</u>	Min. 780	Min. 980	Min. 780		
	Lock te	st	Current Torque N·m		Min. 17.6 (1.79, 13.0		6) Min. 17.6 (1.79, 13.		
<b>.</b>		N	Torque Nill	(ISI-Kg, II-ID)	Min. 17.6 (1.79, 13.0) Will. 22.5 (2.23, 10.0) Will. 17.5 (1.7				
Starter		Number	Standard		17.5 (0.689)				
	Brush	Length mm (in)	Limit		10.0 (0.394)				
	İ	Spring for		N (kg, lb)	1	4-23 (1.4-2.4, 3.1	<b>—5.2</b> )		
	Mica de		Standard	1 (itg, ib)	0.5—0.8 (0.02—0.03)				
	IVIICA G	mm (in)	Limit			0.2 (0.008)			
	Pinion or	ap (magnetic o		d) mm (in)	0.5-2.0 (0.02-0.08)				
		on of magn		,		Max. 8V			
Electronic spa									
Crank angle			G①—G②			110-210			
sensor	Resista	nce	Ne①—Ne			110—210			

Item			Model	M/T (EGI)	A/T (EGI)	M/T (EGI TURBO)	
Ignition system					· · · · · · · · · · · · · · · · · · ·		
Ignition timing	Leading	-	ATDC	5° ±	1° (Test connector of	grounded)	
ignition timing	Trailing		ATDC	20° ± 2° (Test connector grounded)			
Timing mark location				Eccentric shaft pulley			
Spark plug	Туре	NGK		Trailing	Trailing: BUR9EQ, Leading: BUR7EQ		
Spark plug	Gap		mm (in)	1.1 (0.043)—1.7 (0.067)			
Ignition coil	Resistance	Primary	Ω		0.2—1.0		
High-tension lead	Resistance	Ω/1 m	(3.28 ft)		16,000	-	
Drive belt	Deflection at 98 N		New	12—15 (0.47—0.59)		9)	
	(10 kg, 22 lb)	mm (in)	Used		14—17 (0.55—0.67)		

### H. CLUTCH

	Iter	<b>w</b>		Speci	fication	
		**		Turbo model	Non-Turbo model	
	Pedal ratio	· · · ·		6.3	35:1	
Clutch pedal	Stroke		mm (in)	135	(5.31)	
	Height (Wi	Height (With carpet)		183-193 (7.20-7.60)		
	Pedal free play		mm (in)	0.6—3.0 (0.02—0.12)		
	Disengagement height mr		mm (in)	54 (2.13)		
Clutch cover	Set load N (kg, lb)		N (kg, lb)	6,867 (700, 1,540)	5,199 (530, 1,166)	
	Facing (outer)		mm (in)	230 (9.06)	225 (8.86)	
	Facing (inner)		mm (in)	155 (6.10)	150 (5.91)	
Clutch disc	Thickness	Pressure plate	side mm (in)	3.2 (0.13)	3.2 (0.13)	
Cidloit disc	Linckiess	Flywheel side	mm (in)	3.2 (0.13)	3.2 (0.13)	
	Run-out lin	nit	mm (in)	0.7 (0.028)		
	Wear limit n		mm (in)	0.3 (0.012)		
Master cylinder	Bore		mm (in)	15.87 (0.625)		
Release cylinder			mm (in)	19.05 (0.750)		

### J1, J2. MANUAL TRANSMISSION

	Item	Speci	ification	
	ttent	Turbo model	Non-Turbo model	
	1st	3.483	3.475	
	2nd	2.015	2.002	
Gear ratio	3rd	1.391	1.366	
Geal Tallo	4th	1.	.000	
	5th	0.719	0.697	
	Reverse	3.288	3.493	
Oil capacity	liters (US qt, Imp qt)	2.5 (2.6, 2.2)	2.5 (2.6, 2.2) 0.03 (0.0012)	
	Max. permissible run-out mm (in)	0.03 (0.0012)		
Mainshaft	Clearance between mainshaft and gear (or bush) Wear limit mm (in)	0.15 (0.006)		
Reverse idle gear	Clearance between reverse idle gear bushing and shaft Wear limit mm (in)	0.15 (0.006)		
Shift fork and rod	Clearance between shift fork and clutch sleeve Wear limit mm (in)	0.5 (0.020)		
Shift fork and rod	Clearance between shift rod gate and control lever Wear limit mm (in)	0.8	Non-Turbo model  3.475 2.002 1.366 000 0.697 3.493 2.5 (2.6, 2.2) 0.03 (0.0012) 0.006) 0.006) 0.006) 0.031) 0.059) 0.031) r GL-5 SAE80W-90	
Synchronizer ring	Clearance between synchronizer ring and side of gear when fitted Standard mm (in) Wear limit mm (in)		• •	
Lubricant	Above 10°C (50°F)	2.015		
Labrican	All seasons		or GL-5 SAE75W-90	

### K. AUTOMATIC TRANSMISSION

item		*	Model	N4A-EL
Itelli	1st			2.841
	2nd	<del></del> -		1.541
Gear ratio	3rd			1.000
	OD (4th)			0.720
	Reverse			2.400
Automotic transmission	Type	·		DEXRON-II or M-III
Automatic transmission fluid (ATF)		iters (US qt, I	mp at)	7.3 (7.7, 6.4)
ilulu (ATT)		Standard	1111P 419	0.020.04 (0.00080.0016)
	Body clearance mm (in)	Maximum		0.08 (0.0031)
		Standard		0.14-0.21 (0.00550.0083)
Oil pump	Tip clearance mm (in)	Maximum		0.25 (0.0098)
	Side clearance	Standard		0.05-0.20 (0.0020-0.0079)
	Side clearance mm (in)	Maximum		0.25 (0.0098)
		Standard		0.04—0.16 (0.0016—0.0063)
Drum support	Seal ring and groove clearance mm (in)	Maximum		0.40 (0.016)
			nm (in)	0.2 (0.008)
	Side plate clearance		11111 (111)	0.4 (0.016), 0.6 (0.024), 0.8 (0.031),
Direct clutch	Side plate size	Г	nm (in)	1.0 (0.039), 1.2 (0.047)
	End play		mm (in)	0.5—0.8 (0.020—0.031)
	Bearing race size	r	mm (in)	0.8 (0.031), 1.0 (0.039), 1.2 (0.047), 1.4 (0.055), 1.6 (0.063), 1.8 (0.071), 2.0 (0.079), 2.2 (0.087)
	Pinion clearance Standard mm (in) Maximum  Total end play mm (iii			0.2-0.7 (0.008-0.028)
				0.8 (0.031)
OD planetary			mm (in)	0.25—0.50 (0.010—0.020)
gear unit	Bearing race size mm (in)			1.2 (0.047), 1.4 (0.055), 1.6 (0.063), 1.8 (0.071), 2.0 (0.079), 2.2 (0.087)
	Retaining plate clearance mm (i			0.9—1.1 (0.035—0.043)
	Retaining plate size mm (ir			5.0 (0.197), 5.2 (0.205), 5.4 (0.213), 5.6 (0.220), 5.8 (0.228), 6.0 (0.236), 6.2 (0.244)
Front clutch	End play mm			0.5—0.8 (0.020—0.031)
	Bearing race size mm (in)			0.8 (0.031), 1.0 (0.039), 1.2 (0.047), 1.4 (0.055), 1.6 (0.063), 1.8 (0.071), 2.0 (0.079), 2.2 (0.087)
<u> </u>	Retaining plate clea	arance I	mm (in)	0.8—1.0 (0.031—0.039)
	Retaining plate size		mm (in)	6.2 (0.244), 6.4 (0.252), 6.6 (0.260), 6.8 (0.268) 7.0 (0.276), 7.2 (0.283), 7.4 (0.291), 7.6 (0.299)
Rear clutch	Total end play		mm (in)	0.25-0.50 (0.010-0.020)
	Bearing race size		mm (in)	1.2 (0.047), 1.4 (0.055), 1.6 (0.063), 1.8 (0.071), 2.0 (0.079), 2.2 (0.087)
Front planetary	Pinion clearance	Standard		0.20.7 (0.0080.028)
gear unit	mm (in)	Maximum		0.8 (0.031)
Rear planetary	Pinion clearance	Standard		0.2—0.7 (0.008—0.028)
near planetary	mm (in)	Maximum		0.8 (0.031)
<u> </u>	Retaining plate clea		mm (in)	0.8—1.05 (0.031—0.041)
Low and reverse brake	Retaining plate size		mm (in)	11.8 (0.465), 12.0 (0.472), 12.2 (0.480), 12.4 (0.488), 12.6 (0.496), 12.8 (0.504)
	Seal ring to groove	Standard		0.04—0.16 (0.002—0.006)
Oil distributor	clearance mm (in)	Maximum		0.40 (0.016)

Item	Item Model				N4A-EL				
	Valve spring specification				Free length	No. of coils	Wire dia.		
	<u></u>			mm (in)	mm (in)		mm (in)		
		Pressure regulator		11.7 (0.461)	43.0 (1.693)	15.0	1.2 (0.047)		
	1-2 shift 2-3 shift			7.4 (0.291)	26.4 (1.039)	11.6	0.7 (0.028)		
f				10.0 (0.394)	50.0 (1.969)	14.72	1.0 (0.039)		
		3-4 shift	<del></del>	7.5 (0.295)	40.2 (1.583)	17.0	0.8 (0.031)		
		Throttle backup	<del></del> .	8.4 (0.331)	16.61 (0.654)	7.0	0.9 (0.035)		
		Backup control	<del> </del>	8.5 (0.335)	21.3 (0.839)	9.25	0.9 (0.035)		
		N-R reducing		7.4 (0.291)	14.5 (0.571)	7.0	0.6 (0.024)		
Control	valve	Pressure modifier		9.2 (0.362)	19.8 (0.780)	7.3	0.7 (0.028)		
		3-2 control		5.5 (0.217)	39.5 (1.555)	24.4	0.65 (0.026)		
]		Throttle relief		7.4 (0.291)	38.2 (1.504)	17.4	1.1 (0.043)		
		Orifice check		5.0 (0.197)	15.5 (0.610)	12.0	0.23 (0.009)		
		1-2 reducing	·····	9.5 (0.374)	19.5 (0.768)	7.6	0.9 (0.035)		
		1-2 accumulator		10.3 (0.406)	62.6 (2.465)	24.0	1.4 (0.055)		
		N-R/2-3 accumulator		8.7 (0.343)	75.8 (2.984)	30.0	1.1 (0.043)		
		N-D accumulator		9.3 (0.366)	43.4 (1.709)	24.0	1.4 (0.055)		
		Throttle relief (ball)		6.5 (0.256)	25.0 (0.984)	15.0	1.0 (0.039)		
	Oil pump Lockup control			5.45 (0.215)	25.7 (1.012)	16.5	0.65 (0.026)		
Drum s	upport	OD accumulator		16.0 (0.630)	40.4 (1.590)	9.8	2.6 (0.102)		
Band s	ervo	OD		28.0 (1.102)	48.0 (1.890)	7.0	3.5 (0.138)		
Dances	2nd			28.2 (1.110)	46.74 (1.840)	6.324	3.4 (0.134)		
Direct, front, and rear clutches			8.0 (0.315)	30.5 (1.201)	14.5	1.3 (0.051)			
Low and reverse brake				5.9-6.2 (0.232-0.244)		_			
Parking rod			7.2 (0.283)	32.0 (1.260)	14.0	0.7 (0.028)			
Shift p	oint (exc	cept convertible)					(3.020)		
Mode	Range	Throttle condition (Throttle sensor voltage)	Throttle condition Throttle condition Shift		peed (rpm)	Vehicle spee	d km/h (mph)		
		(Throttle Serisor Voltage)	D1→D2	5,780—6,350		60—66	. , ,		
1			D2→D3	5,8006,210		111—119 (69—74)			
	i		D₃→OD	5,250—5,590		155—165 (96—102)			
	ţ	·	D1→D2	3,950—4,520		41—47 (25—29)			
			D2→D3	3,970—4,390		75—84 (47—52)			
			Lockup ON (D3)	3,290—3,490			(60—64)		
•			D3→OD	3,860-4,130		114—122			
	D	Half throttle (2.6 volt)	Lockup ON (OD)		-4,130	114—122 (71—76)			
			Lockup OFF (OD)	2,100—2,290		86—94 (53—58)			
			OD→D3		-2,290	86—94 (53—58)			
			D3→D2		-1,660	41—49			
Marmal			OD→D3		-3,780	145—155			
Normal	!	Kickdown	D3→D2		-3,690	101—109			
i			D2→D1		-2,510	42—48 (			
			S1→S2		-6,350	60—66			
		F. B. C.	S2→S3		-6,210	111—119			
		Fully opened (4.3 volt)	S3→S2		-3,660	102—108			
	S		S2→S1		-2,510	42-48 (	·		
			S1→S2		-4,520	41—47 (			
		Half throttle (2.6 volt)	S2→S3		-4,390	76—84 (			
		(=,	S3→S2		-1,630	42-48 (			
		F.a.	L1→L2			60-66 (			
	L	Fully opened (4.3 volt)	L2→L1		5,780—6,350 2,190—2,510		26—30)		
		Half throttle (2.6 volt)	L1→L2	2,190—2,510 4,040—4,620		42-48 (			
		( 7)	D2→D3	<del></del>	-1,200	17-23 (			
	D	_	D3→D2		<del>-470</del>	6-14			
Hold	_		OD→D3		-3,980	157—163			
_	S	Fully closed (0.8 volt)	S3→S2		-4,000	112—118			
	L	\	L2→L1		-2,660				
		<u> </u>	LE LI	2,300-	2,000	45—51 (	20-32)		

## TECHNICAL DATA TD

Item			Model	N4A-EL		
	oint (cor	vertible)				
Mode	Range	Throttle condition (Throttle sensor voltage)	Shift	Turbine speed (rpm)	Vehicle speed km/h (mph)	
			D1→D2	5,960—6,560	59—65 (37—40)	
		Fully opened (4.3 volt)	D2→D3	5,910—6,350	108—116 (67—72)	
!		,	D₃→OD	5,330—5,690	150160 (9399)	
	,		D1→D2	4,040—4,640	40—46 (25—29)	
			D2→D3	4,050-4,490	74—82 (46—51)	
			Lockup ON (D3)	3,450-3,660	97—103 (60—64)	
	_		D3→OD	3,910—4,190	110—118 (68—73)	
	D	Half throttle (2.6 volt)	Lockup ON (OD)	2,810—3,020	110—118 (68—73)	
			Lockup OFF (OD)	2,120—2,330	83—91 (51—56)	
			OD→D3	2,120-2,330	83—91 (51—56)	
			D3→D2	1,460—1,740	41—49 (25—30)	
			OD→D3	3,530—3,790	138—148 (86—92)	
Normal		Kickdown	D3→D2	3,410—3,700	96—104 (60—64)	
•			D2→D1	2,190—2,520	40—46 (25—29)	
		Fully opened (4.3 volt)	S1→S2	5,960—6,560	59—65 (37—40)	
			S2→S3	5,910—6,350	108—116 (67—72)	
			S3→S2	3,450—3,660	97—103 (60—64)	
	s		S2→S1	2,190—2,520	40—46 (25—29)	
	_		S1→S2	4,040—4,640	40—46 (25—29)	
	1	Half throttle (2.6 volt)	S2→S3	4,110—4,440	75—81 (47—50)	
		, ,	S3→S2	1,460—1,740	41—49 (25—30)	
		5 " 1/4 C - W	L1→L2	5,960—6,560	59—65 (37—40)	
	L	Fully opened (4.3 volt)	L2→L1	2,190-2,520	40—46 (25—29)	
		Half throttle (2.6 volt)	L1→L2	4,040 4,640	40-46 (25-29)	
			D2→D3	930—1,260	17—23 (11—14)	
	D	_	D3→D2	210—500	6—14 (4—9)	
Hold			OD→D3	3,840—3,990	150—156 (93—97)	
	Š	Fully closed (0.8 volt)	S <sub>3</sub> →S <sub>2</sub>	3,800—4,020	107—113 (66—70)	
	L	1	L2→L1	2,350—2,680	43—49 (27—30)	

Item		Model	N4A-EL
	Shift position	Engine speed	750 ± 25
	R range	Idle	638-736 (6.5-7.5, 92-107)
	kPa (kg/cm², psi)	Stall	1,864—2,060 (19.0—21.0, 270—299)
	D (Normal) range	Idle	294—392 (3.0—4.0, 43—57)
	kPa (kg/cm², psi)	Stall	883—1,079 (9.0—11.0, 128—156)
Line pressure	S (Normal) range	ldle	294—392 (3.0—4.0, 43—57)
	kPa (kg/cm², psi)	Stall	883—1,079 (9.0—11.0, 128—156)
	S (Hold) range	Idle	294—392 (3.04.0, 43—57)
	kPa (kg/cm², psi)	Stall	638-834 (6.5-8.5, 92-121)
	L range	Idle	294—392 (3.0—4.0, 43—57)
	kPa (kg/cm², psi)	Stall	883—1,079 (9.0—11.0, 128—156)
Engine stall speed		rpm	1,900—2,100
	Clearance between body valve	and throttle mm (in)	Adjusting rod length mm (in)
Manum	Below 27.30 (1.0748)		29.0 (1.14)
Vacuum diaphragm	27.30—27.80 (1.0748—1	.0945)	29.5 (1.16)
diaprilagin	27.80—28.30 (1.0945—1		30.0 (1.18)
	28.30—28.80 (1.1142—1	.1339)	30.5 (1.20)
	28.80 (1.1339) or over		31.0 (1.22)
	N ↔ D (Normal)	sec.	0.5—0.6
Time lag	N ↔ D (Hold)	sec.	0.5—0.6
	N ↔ R	sec.	0.75-0.85

### L. PROPELLER SHAFT

Item	Specification		
Max. permissible run-out mm	in) 0.4 (0.016)		

### M. FRONT AND REAR AXLES

	Item	****	Specification			
			Turbo model	Non-Turbo model		
Reduction ratio M/T			4.1	4.1, 4.3 (Viscous L.S.D.)		
Reduction ratio A/T	(convertible)	· · · · · · · · · · · · · · · · · · ·		3.909 (4.1)		
Backlash of ring gear and pinion mm (in)			0.09-0.11 (0.	0035-0.0043)		
Pinion bearing preloa	d (without pinion oil se	eal) N·m (cm-kg, in-lb)	1.3—1.8 (13—18, 11.3—15.6)	0.9—1.4 (9—14, 7.8—12.1)		
Backlash at side gear and pinion gear mm (in)			0-0.1 (0-0.004)			
Front wheel bearing end play mm (in)			0 (0)			
Rear wheel bearing	end play	mm (in)	0-0.1 (0-0.004)			
	Standard diff.	Above –18°C (0°F)	API Service GL-5 SAE90			
Lubricant	Standard dill.	Below -18°C (0°F)	API Service GL-5 SAE80W			
LUDITORITI	Viscous L.S.D.	Above -18°C (0°F)	API Service GL-5 SAE90			
	VISCOUS L.S.D.	Below -18°C (0°F)	API Service GL-5 SAE80W			
Oil capacity	Standard diff.	liters (US qt, Imp qt)	_	1.3 (1.4, 1.1)		
On capacity	Viscous L.S.D.	liters (US qt, Imp qt)	1.4 (1.5, 1.2)	1.3 (1.4, 1.1)		
"L" (case spread)		mm (in)	204.43-204.50 (8.048-8.051)	185.43—185.50 (7.300—7.303)		

Viscous L.S.D.: Viscous Limited Slip Differential

### N. STEERING SYSTEM

Item	Туре	Engine speed sensing power steering	Electronically controlled power steering	
Steering wheel				
Outer diameter	mm (in)	380	(15.0)	
Free play	mm (in)	· · · · · · · · · · · · · · · · · · ·	).20—0.79)	
Wheel effort	N (kg, lb)	36 (3.7, 8.1) or less	13.7—20.6 (1.4—2.1, 3.1—4.6	
Lock-to-lock	turns	2.70	3.09	
Steering Shaft				
Shaft type			apsible	
Joint type	···	2-cro	oss joint	
Tilt stroke	mm (in)	35	(1.38)	
Power steering system				
Gear type		Rack a	ınd pinion	
Gear ratio		∞ (	infinite)	
Rack stroke	mm (in)		(5.67)	
Power steering fluid		ATF DEXRON-II or M-III		
Fluid capacity	liter (US qt, Imp qt)	0.8 (0.85, 0.70)		
Fluid pressure	kPa (kg/cm², psi)	7,848—8,339 (80	—85, 1,137—1,209 <u>)</u>	

#### P. BRAKING SYSTEM

<u></u>			NON-T	URBO	TURBO	
	(without carpet, clearance whe depressed at 58.9 N (6.0 kg, Type  Ster cylinder  Bore Fluid type  Type  Thickness of pad mm (in)  Thickness of disc plate mm (in)  Disc plate runout		Type A*	Туре В*	TURBU	
	Height (with carpet) mm (in)		1	84—189 (7.24—7.44		
	Free play	mm (in)		4—7 (0.16—0.28)		
Brake pedal	Free play         mm (in)         4—7 (0.16—0.28)           Reserve travel (without carpet, clearance when pedal is depressed at 58.9 N (6.0 kg, 13.2 lb))         100 (3.94) min.           Type         Tandem (with level sensor)           Bore         mm (in)         22.22 (0.875)         2           Fluid type         SAE J1703 or FMVSS116 DOT-           Type         Ventilated disc, single-piston caliper         Ventilated disc, four p           Thickness of pad mm (in)         Standard         9 (0.35)         11 (0.43)           Thickness of disc plate mm (in)         Standard         22 (0.87)           Disc plate runout         mm (in)         0.1 (0.004) max.           Wheel cylinder bore         mm (in)         50.8 (2.00)         36.12 (1.42)           Type         Standard         8 (0.31)					
	Type		Tar	ndem (with level sens		
Master cylinder		mm (in)	22.22 (	0.875)	23.81 (0.937)	
-	Fluid type		SAE J	1703 or FMVSS116	DOT-3	
	Туре		-	Ventilated disc, four piston calip		
	Third and the first	Standard	9 (0.35)	11 (0.43)		
Front brakes	Inickness of pad mm (in)	Limit	2 (0.08)	2 (0.08)		
(Disc)	Thickness of disc plate Standard					
		Limit	20 (0.79)			
	Disc plate runout	mm (in)	0.1 (0.004) max.			
		mm (in)	50.8 (2.00)	36.12 (1.42)		
	Type		Solid disc	Solid disc Ventilated disc		
		Standard	8 (0.31)			
	Thickness of pad mm (in)	Limit		1 (0.04)		
Rear brake	Thickness of disc plate	Standard	10 (0.39)	20 (	0.79)	
(Disc)	mm (in)	Limit	8 (0.31)	18 (0.71)		
	Disc plate runout	mm (in)	0.1 (0.004) max.			
	Wheel cylinder bore	mm (in)	34.93 (1.375)			
Parking brake	Lever notches [Pulled at 98 N (10 kg, 22 lt	D)]		5—7		

Type A\*: Standard suspension models
Type B\*: Sport suspension, or convertible top models

	item	NON-T	URBO		
	item	Type A*	Type B*	TURBO	
	Туре	Single diaphragm		Tandem_diaphragm	
	Diameter 'mm (in)	238 (	9.37)	188&215 (7.40&8.46)	
Power brake unit	Push rod-to-piston clearance mm (in)	When vacuum applied to the unit is approx. 500 mmHg (19.7 inHg) 0.1—0.3 (0.004—0.012)			
	Fluid pressure per treading force when 500 mmHg (19.7 inHg) vacuum applied kPa (kg/cm², psi)/N (kg, lb)	7,063 (72, 1,024)	8,339 (8	85, 1,209)	
Rear wheel	Type	PBV			
hydraulic control system	Bend portion (Master cylinder pressure) kPa (kg/cm², psi)	2,943 (30, 427)			

Type A\*: Standard suspension models
Type B\*: Sport suspension, or convertible top models

### Q. WHEELS AND TIRES

Item	Туре			s	tandard	<del></del>	Tempora	ary spare	
	Size Offset mm (in)		6JJx1	5	6-1/2JJx15	7JJx16	4Tx15	4Tx16	
Wheel				40 (1.57)				30 (1.18)	
TTILCE	Pitch circle diam	eter mm (in)		114.3 (4.5)			,	· · · · · · · · · · · · · · · · · · ·	
	Material		Steel	Steel Aluminum			Steel	Aluminum	
Tire	Size		205/60R15 89H	60R15 89H *205/60VR15 *20		*205/55R16 88V	T135/70D15	T135/70D16	
1110	Air pressure kPa	(kg/cm², psi)		216 (2.2, 32)			415 (4.2, 60)		
	Runout limit	Horizontal				2.0 (0.08)		· · · · · · · · · · · · · · · · · · ·	
Wheel	mm (in)	Vertical	2.0 (0.08)						
and tire	Maximum unbalance (at rim edge) g (oz)		9 (0.31) 8 (0.28)		8 (0.28)	_			

<sup>\*</sup>Indicates directional tires

#### R. SUSPENSION Front Suspension

	· · · · · · · · · · · · · · · · · · ·	Туре	1	Normal body				Convertible top		
			Standard s	Standard suspension   Sporty suspens			ion Convertible top			
Item				Right side			Left side	Right side		
Suspension type					St	rut				
Ot - 1-70	Туре		Torsion bar							
Stabilizer	Diameter	mm (in)		23 (0.91)*1 24 (0.94)*2						
Shock absorbers	Туре									
	Identification mark color		Red	Light green		Gray	Orange	Green		
	Wire diameter	mm (in)	12.0 (0.47)	12.0 (0.47)	12.2 (0.48)	12.0 (0.47)	12.4 (0.49)	12.2 (0.48)		
	Outer diameter	Top mm (in)		147.0 (5.79)						
Coil springs		Bottom mm (in)	70.0 (2.76)	70.0 (2.76)	69.8 (2.75)	70.0 (2.76)	69.6 (2.74)	69.8 (2.75)		
	Free length	mm (in)	355.5 (14.00)	348.5 (13.72)	346.5 (13.64)	336.5 (13.23)	356.0 (14.02)	346.5 (13.64)		
	Coil number	turns	4.41	4.41	4.29	4.08	4.50	4.29		
	mm (in)		3 ± 3 (0.12 ± 0.12)							
	Total toe-in	degree	0°18' ± 18'							
Front wheel	Maximum Inner		36° ± 2°							
alignment	steering angle	Outer	32° ± 2°							
(*Unladed)	Camber angle		0°20' ± 30'							
	Caster angle		4°40′ ± 45′							
	Kingpin angle		13°45'							

### **Rear Suspension**

Item		Туре	Normal body Convertible top  Multilink semi-trailing  Torsion bar			
Suspension type						
	Type					
Stabilizer	Diameter	mm (in)	14 (0.55)	12 (0.47)		
Shock absorbers	Туре		Cylindrical, double-acting (Low pressure gas charged)			
	Identification m	ark color	Purple	Orange		
	Wire diameter	mm (in)	10.1 (0.40)	10.3 (0.41)		
Coil springs	Outer diameter		84.4 (3.32)	84.2 (3.31)		
	Free length	mm (in)	385.0 (15.16)	372.5 (14.67)		
	Coil number	turns	9.62	9.43		
Rear wheel align- ment (*Unladed)		mm (in)	$3 \pm 3 (0.12 \pm 0.12)$			
	Total toe-in	degree	0°18' ± 18'			
	Camber angle	<u> </u>	-0°44' ± 30'			

<sup>\*</sup>Fuel tank full; radiator coolant and engine oil at specified level, and spare tire, jack, and tools in designated position

<sup>\*1</sup> Turbo models
\*2 Non-turbo models

### T. BODY ELECTRICAL SYSTEM

	. Item	Specification (W) (BULB TRADE NO.)				
-	Headlight (Halogen)	65/35 (HP6054, H6054)				
Front exterior	Turn signal/Parking light	27/8 (1157)				
lights	Front fog light (For U.S.A.)	. 55				
	Daytime running light (For Canada)	55				
	Side marker light	3.8 (194)				
	Back-up light	27 (1156)				
	License plate light	7.5 (89)				
Rear exterior lights	Stop/Tail light	27/8 (1157)				
near extendi lights	High mounted stop light	27 (1156)				
	Turn signal light	27 (1156)				
, ,	Side marker light	3.8 (194)				

	Item	Specification (W) and Bulb trade number				
	Interior light	10				
Interior lights	Glove compartment light Courtesy light	3.8 (194)				
	Luggage compartment light Map light	5				
Warning lights	Overheat exhaust system Add coolant Washer level Alternator Front doors Engine oil level Check Brake Anti-lock Seat belt Rear glass hatch Cooling fan Fuel	1.4				
	Shift up Hazard High beam	3.4 (158)				
Indicator	Turn signal Security lamp	3.4				
	Cooling fan (In meter unit) Main Cruise O/D OFF	1.4				
Illumination lights	Automatic selector Cigarette lighter	3.4 (158)				
	Door key	1.4				
	Ignition key Meter	3.4				

### U. HEATING AND AIR CONDITIONING SYSTEMS

ltem -	,	Specifications					
Refrigerant amount		750 g (28.2 oz)					
Compressor oil amount cc (cu in)	Nippondenso compressor	60—100 (3.7—6.1)					
Compressor on amount CC (Cd III)	Sanden compressor	135 (8.2)					
Refrigerant normal pressure at 25		Low pressure: 98—167 (1.0—1.7, 14—24)					
	kPa (kg/cm², psi)	High pressure: 1,030—1,324 (10.5—13.5, 149—192)					

### STANDARD BOLT AND NUT TIGHTENING TORQUE

Diameter Pitch		4T			6 <b>T</b>			8T		
mm (in)	mm (in)	N⋅m	m-kg	ft-lb	N⋅m	m-kg	ft-lb	N⋅m	m-kg	ft-lb
6 (0.236)	1 (0.039)	4.2-6.2	0.43-0.63	3.1-4.6	6.9-9.8	0.7—1.0	5.0—7.2	7.8—11.8	0.8-1.2	5.8-8.8
8 (0.315)	1.25 (0.049)	9.8—14.7	1.0—1.5	7.2—10.8	16—23	1.6-2.3	12—17	18—26	1.82.7	13-20
10 (0.394)	1.25 (0.049)	20—28	2.0-2.9	14—21	31—46	3.2-4.1	23—34	3654	3.7-5.5	27-40
12 (0.472)	1.5 (0.059)	34—50	3.5-5.1	25—37	55-80	5.6-8.2	41—59	63-93	6.4-9.5	4669
14 (0.551)	1.5 (0.059)	-			75-103	7.7—10.5	56—76	102—137	10-14	75—101
16 (0.630)	1.5 (0.059)	_	-	_	116—157	1216	85—116	156-211	1622	115156
18 (0.709)	1.5 (0.059)	_		_	167-225	17—23	123—166	221-299	23-31	163-221
20 (0.787)	1.5 (0.059)	_	_	-	231314	24-32	171-231	308-417	31-43	227—307
22 (0.866)	1.5 (0.059)		_		314-423	32-43	231312	417—564	43-58	307-416
24 (0.945)	1.5 (0.059)	_	_	_	475-546	4156	298-403	536-726	55—74	396-536