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MEASUREMENTS			1
MEAGONEMENTS		Apex seal	
	T	Length	
Overall length	4,285 mm (169 in)	12A Engine	69.8 mm (2,7481 in)
Overall width		138 Engine	79.8 mm (3.1418 in)
(Without side protector)	1,650 mm (65 in)	Width	3.0 mm (0,1181 in)
(With side protector)	1,675 mm (66 in)	Height	
Overall height	1,260 mm (50 in)	Standard	8.5 mm (0.3347 in)
Distance between wheel		Limit	7.0 mm (0.2756 in)
center and fender line	1	Clearance of apex seal	
Front	364 ± 20 mm (14.3 ± 0.8 in)	and rotor groove (ΔG)	
Rear	358 ± 20 mm (14.0 ± 0.8 in)	Standard	0.05 ~ 0.09 mm
Wheel base	2,420 mm (95 in)	Standard	(0.0020 ~ 0.0035 in)
Tread	2,420 mm (95 m)	1.1	,
	1 400 (56 !-)	Limit	0,15 mm (0,0059 in)
Front	1,420 mm (56 in)	Apex seal spring	
Rear	1,400 mm (55 in)	Free height	
Minimum road clearance	160 mm (6 in)	Standard	
Minimum turning radius	4.8 m (15 ft 9 in)	12A Engine	6.9 mm (0.2717 in) or more
		13B Engine	5.7 mm (0.2244 in) or more
		Limit	
1. ENGINE		12A Engine	5.5 mm (0.2165 in)
-	T -	13B Engine	3.8 mm (0.1496 in)
Displacement	1	Side seal	
12A Engine	573 CC (35,0 cu-in) X 2 rotors	Thickness	1,0 mm (0,0394 in)
138 Engine	654 CC (40,0 cu-in) X 2 rotors	Height	3.5 mm (0.1378 in)
Compression ratio	9.4 : 1	Clearance of side seal	1
Compression pressure	600 kpa (85 lb/in²)	and rotor groove (△W)	
Limit	at 250 rpm	Standard	0.03 ~ 0.08 mm
Max, permissible differ-	150 kpa (21 lb/in²)	313113073	(0.0012 ~ 0.0031 in)
ence between chambers	100 Kpu (1) 10/111 /	Limit	0.10 mm (0.0039 in)
Port timing	k	Clearance of side seal	
12A Engine	İ	and corner seal (Δ E)	
Intake opens ATDC	32°	Standard	0.06 ~ 0.15 mm
Intake closes ABDC	40°	Standard	(0,0020 ~ 0,0059 in)
Exhaust opens BBDC	75°	Limit	0.40 mm (0.0157 in)
	38°		1
Exhaust closes ATDC	38	Side seal protrusion	More than 0.5 mm (0.0197 in)
13B Engine	20010 1 20010 1 450 4 1	Oil seal	1
Intake opens ATDC	32°(Pr.) 32°(Sec.) 45° (Auxi-)	Height	5.6 mm (0.2205 in)
Intake closes ABDC	40°(Pr.) 30°(Sec.) 70° \liary	Contact width of oil seal	Less than 0.5 mm (0.0197 in)
Exhaust opens BBDC	71°	lip	
Exhaust closes ATDC	48°	Oil seal protrusion	More than 0.5 mm (0.0197 in)
Side housings (Front,		Corner seal	
intermediate and rear		Outer diameter	11.0 mm
housings)			(0,4331 in)
Width standard		Height	7.0 mm
Front	40 mm (1,5748 in)	l '	(0.2756 in)
Intermediate	50 mm (1,9685 in)	Corner seal protrusion	More than 0.5 mm (0.0197 in)
Rear	60 mm (2.3622 in)	Main bearing clearance	
Limit of distortion	0.04 mm (0.0016 in)	Standard	0,04 ~ 0,08 mm
Limit of wear	1		(0,0016 ~ 0,0031 in)
Sliding surface	0.10 mm (0.0039 in)	Wear limit	0.10 mm (0.0039 in)
Rotor housing	0,10 11111 10,0003 1111	Rotor bearing clearance	0.10 mm (0.0008 m)
Width	1	Standard	0.04 ~ 0.08 mm
Wigth 12A Engine	70.0 mm (2.7559 in)	Statioard	(0.0016 ~ 0.0031 in)
•	1	Salau-Itta	144
138 Engine	80.0 mm (3.1497 in)	Wear limit	0.10 mm (0.0039 in)
Max, permissible differ-	0,06 mm (0,0024 in)	Eccentric shaft	15 0 mm (0 5000 (=)
ence in width	1	Eccentricity of rotor	15,0 mm (0.5906 in)
Rotor		Journal	42
Width	000	Main journal diameter	43 mm
12A Engine	69.8 mm (2,7481 in)		(1.6929 in)
13B Engine	79,85 mm (3,1438 in)	Rotor journal diameter	74 mm
Clearance of side		l	(2.9134 in)
housing and rotor (ΔR)	1	Max, permissible run-out	0.06 mm (0.0024 in)
Standard		End play	
12A Engine	0.12 ~ 0.19 mm	Standard	0.04 ~ 0.07 mm
	(0.0047 ~ 0.0075 in)	1	(0,0016 ~ 0.0028 in)
400 5	0.12 ~ 0.21 mm	Limit	0,09 mm (0.0035 in)
13B Engine			
135 Engine	(0.0047 ~ 0.0083 in)		

Alternator belt tension (slack) (Between alternator and) eccentric shaft pulley Belt deflection Air pump belt tension (slack) (Between air pump and)	15 ± 2 mm (0.5906 ± 0.0787 in)		Oil metering pump Feeding capacity of 2,000 rpm of engine 12A Engine	1	0.134 U.S.
water pump pulley Belt deflection	12 ± 1 mm (0.4724 ± 0.0394 in)		13B Engine	,-,-	nin. 20.073 U.S.
TIGHTENING TORQUE		Lubricant Classification	cu-in/6 n		
	N-m	ft-lb	Above –10°C (15°F) –25°C ~30°C	SAE 20W-40 or SAE 10W-30	•
Oil pump sprocket	32 ~47	23 ~ 34	(-13°F ~86°F)		
Oil pan	8~11	6~8	Above -25°C (-13°F)	SAE 10W-40 or	10W-50
Inlet manifold	19~26	14~19	Below20°C (4°F)	SAE 5W-20	
	32~47	23~34	Below 0°C (32°F)	SAE 5W-30	
Exhaust manifold		9~11	Oil capacity		
Spark plugs	13~18		Full capacity		
Eccentric shaft pulley	100~120	72 ~ 87	12A Engine	4.6 liters (4.9 U	S quarts)
Temperature gauge unit	7~8	5~6	13B Engine	5.8 liters (6.1 U	
Tension bolts	32~38	23~27	Oil pan capacity	U.S IILEIS (U. 1 U	,u, quai ta/
Water temperature switch	35 ∼45	25∼3 3		4,2 liters (4.4 U	C guartel
			12A Engine	4.2 liters (4.4 U	-
2. LUBRICATING SYSTE	M	!	13B Engine	4.0 II(BIS (4.9 C	,.s. qual (s)
	<u> </u>				
Oil pump Type	Rotor		TIGHTENIA	IG TORQUE	
Feeding capacity at 1,000	7.0 liters/min.		· · · · · · · · · · · · · · · · · · ·		·
rpm of engine		quarts/min. \		N-m	ft-lb
, p		quarts/min.			
Oil pump driven by	Chain and sprod	•	Oil pump sprocket	32 ~47	23~34
	12 mm (0.4724		Oil pan	8~11	6~8
Limit of chain slack	12 111111 (0,4724	1117			
Outer rotor and body					
Clearance	0.20 ~ 0.25 mn	_	3. COOLING SYSTEM		
Standard		~ 0.0098 in)		T	
A1 . 4.	0.30 mm (0.01)		Water pump		
Wear limit	0.30 mm 10.01	10 1117	Type	Centrifugal imp	eiler
Clearance between rotor			Feeding capacity at	150 ~ 160 liter	
lobes			6,500 rpm of engine	/39.6 ~42.3	U.S. gal/mir
Standard	0.01 ~0.09 mn		0,500 tpill of driging	33.0~35.2	
		~0,0035 in)	D alabasa bu	"V" belt	Trip, Boil.
Wear limit	0.15 mm (0.005	59 in)	Pump driven by	1	
Rotor end float			Pulley ratio of eccentric	1:1,18	
Standard	0,03 ~ 0,13 mn	n	shaft and pump	1	
	(0,0012	~0,0051 in)	Fan		40.1-1
Wear limit	0.15 mm (0.005	59 in)	Fan diameter	390 mm (15,35	40 (11)
Oil pressure at 3,000 rpm	450 ~ 550 kpa		Number of fan blades	8	
of engine	(64.0 ~ 3	78.2 lb/in ²)	Fan drive		. = . = =
Oil pressure at idle speed	90 ~ 270 kpa		Standard revolution of fan	Less than 900 n	pm at 3400 i
of engine ("D" range for		38,4 lb/in ²)	1	of engine	
automatic)			Thermostat	1	
Pressure regulator valve			Туре	Wax pellet	
(Rear housing)			Starts to open	82 ± 1.5°C (180) ± 2,7°F)
Operating pressure	500 kpa (71,1 li	b/in²)	Fully opens at	95°C (203°F)	
	at 3,000 rpm of engine		Lift	8 ~ 10 mm (0.3150	~0,3937 in)
Free length of spring	46.4 mm (1.826	וחו סכ	Radiator	10,0,00	
Pressure control valve			Type	Corrugated fin,	with
(Front cover)			'',	expansion tank	
Operating pressure	800 kpa (113,8		Pressure cap opens at	90 ~ 15 kpa	
Free length of spring	69.6 mm (2.740)2 in)	Liezzoie cab obeus ar	1	2.0 lb/in ²)
By-pass valve (Oil cooler)				(14,614	40 10/1117 J
Opening pressure	300 kpa at 60°0	ם ַ	Cooling capacity	G E Heart (10)	10 000000 .
	(42,7 lb/	in ² at 140°F)	With heater	9.5 liters (10 t	inp, quarts
Oil filter			Market and because		
	Full flow, cartri	doe	Without heater	8.5 liters (9.0 l	
Type	I all lious, carar	~8~	1		
Type Relief valve opens at	80 ~ 120 kpa	17,1 lb/in²)	1	\7,5	imp, quarts

TIGHTENIA	NG TORQUE		Air cleaner element	Long life dry	
	N-m	ft-lb	Sub-zero starting assist fluid	Anti-freeze 90% Water 10%	-
Temperature gauge unit	7~8	5~6	129 English		
Water temperature switch	35 ~45	25~33	13B Engine	00.00	
Water pump	18~27	13~20	Fuel tank capacity	63 liters (16.4	U.S. gal.) Imp. gal.
			Eugl pump	(13.9	Imp. gal./
	1		Fuel pump Type	Motor	
4. FUEL SYSTEM			Outlet pressure	350 ~500 kpa	
	1		Cottet pressure		71,1 lb/in²)
12A Engine			Feeding capacity	More than 1.70	
Fuel tank capacity	63 liters / 16.4	U.S. gal \	l some graphs in		, quarts/min.
	\13,9	lmp, gal [/]			o. quarts/min
Fuel pump	1		Fuel filter	Nylon 6 - 150	
Type	Motor		Pressure regulator	1.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Outlet pressure	20 ~ 25 kpa		Туре	Diaphragm	
		3,55 lb/in ²)	Fuel pressure	200 ~ 260 kpa	
Feeding capacity	More than 1,40		1	1	37.0 (b/in²)
		. quarts/min. \	Throttle chamber		
	- '	o. quarts/min./	Type	Horizontal - da	raft
Fuel filter	Cartridge, paper	r element	'/=-	1 .	3 barrel)
Carburetor	1		Throat diameter	,	
Type	Down draft, 2 s	tage 4 barrel	Primary	40 mm (1.6 in)	
Throat diameter	1		Secondary	36 mm (1,4 in)	X 2
Primary	28 mm (1.10 in)	Idling speed	800 rpm	^2
Secondary	34 mm (1,34 ln)	Air cleaner element	Long life dry	
Venturi diameter	!		Sub-zero starting assist fluid	Anti-freeze 909	ĸ
Primary	20 X 13 X 6.5 r	nm	Odo zoro starting basist nato	Water 109	
	(0,79 X (0,51 X 0,26 in)		10.	
Secondary	28 X 10 mm (1,	.10 X 0,39 in)			
	Manual	Automatic	1		
	transmission	transmission		<u> </u>	
Main jet		_	TIGHTENIN	IG TORQUE	
Primary	#92	#91	11011121111		
Secondary	# 160	# 160		N-m	ft-lb
Main air bleed				19-111	16-10
Primary No.1	#70	#60	Intake manifold	19~26	14 ~ 19
No. 2	#70	# 70	Exhust manifold	32~47	23~34
Secondary	# 140	# 140	CXIIOST INAMITOID	32~4/	23 ~ 34
Slow jet					
Primary	# 46	#46	E ENCINE ELECTRICAL	OVOTEM	
Secondary .	#110	# 110	5. ENGINE ELECTRICAL	SYSIEM	
Slow air bleed			8		
Primary No. 1	# 70	#70	Battery		
No. 2	# 170	# 150	Type	E0 0000	
Secondary No. 1	# 160	# 160	California	50 D20R	
N= 2	#60	# 60	Except for California	E00200 #500	20
No. 2				50D20R, 65D2	
Richer jet	#40	-	Manual transmission		J11
	# 40 # 130	-	Automatic transmission	65D23R	
Richer jet Richer air bleed		-		65D23R 55 amp, 65D23	R
Richer jet Richer air bleed Vacuum jet	# 130	-	Automatic transmission Capacity (20 hours Rate)	65D23R 55 amp, 65D23 50 amp, 50D20	R
Richer jet Richer air bleed	# 130	<u>-</u>	Automatic transmission Capacity (20 hours Rate) Voltage	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt	R
Richer jet Richer air bleed Vacuum jet Primary	# 130	-	Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground	65D23R 55 amp, 65D23 50 amp, 50D20	R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment	# 130 1.8 mm (0.0709 in)		Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative	R R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment /Clearance between primary	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm		Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F)	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2	R R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment Clearance between primary throttle valve and bore	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm	- - -0.047 in)	Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2 1,280	R R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment Clearance between primary throttle valve and bore when choke knob is fully	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm	- - - -0.047 in)	Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged Recharged at	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2	R R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment Clearance between primary throttle valve and bore when choke knob is fully pulled	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm (0.039 ~	- - - - 0.047 in)	Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged Recharged at Distributor	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2 1,280 1,220	R R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment (Clearance between primary throttle valve and bore when choke knob is fully pulled Float level	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm (0.039 ~		Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged Recharged at	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2 1,280 1,220 0,5 ~0,9 mm	R R 3R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment (Clearance between primary throttle valve and bore when choke knob is fully pulled Float level (from surface of gasket)	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm (0.039 ~ 16,0 ± 0.5 mm (0.63 ± 0.63 ±		Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged Recharged at Distributor	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2 1,280 1,220 0,5 ~0,9 mm	R R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment (Clearance between primary throttle valve and bore when choke knob is fully pulled Float level (from surface of gasket) Float drop	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm (0.039 ~ 16,0 ± 0,5 mm (0.63 ± 0,5 mm)),020 in)	Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged Recharged at Distributor	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2 1,280 1,220 0,5 ~0,9 mm	R R 3R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment (Clearance between primary) throttle valve and bore when choke knob is fully pulled Float level (from surface of gasket) Float drop (from surface of gasket)	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm (0.039 ~ 16,0 ± 0.5 mm (0.63 ± 0.63 ±),020 in)	Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged Recharged at Distributor	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2 1,280 1,220 0,5 ~0,9 mm	R R 3R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment (Clearance between primary throttle valve and bore when choke knob is fully pulled Float level (from surface of gasket) Float drop (from surface of gasket) idling speed	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm (0.039 ~ 16,0 ± 0,5 mm (0.63 ± 0 51 ± 0.5 mm (2,0 ± 0,0),020 in)	Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged Recharged at Distributor	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2 1,280 1,220 0,5 ~0,9 mm	R R 3R
Richer jet Richer air bleed Vacuum jet Primary Fast idle ajustment (Clearance between primary throttle valve and bore when choke knob is fully pulled Float level (from surface of gasket) Float drop	# 130 1.8 mm (0.0709 in) 1.0 ~ 1.2 mm (0.039 ~ 16,0 ± 0,5 mm (0.63 ± 0,5 mm)),020 in)	Automatic transmission Capacity (20 hours Rate) Voltage Terminal ground Specific gravity at 20°C (68°F) Fully charged Recharged at Distributor	65D23R 55 amp, 65D23 50 amp, 50D20 12 Volt Negative 50D20R, 65D2 1,280 1,220 0,5 ~0,9 mm	R R 3R

Contributed advance		Load test		
Centrifugal advance		Voltage	13.5V	
12A Engine	1	Current	13.54	
Leading	Starts:	12A Engine	More 26 amp.	
	0° at 500 rpm		More 21 amp.	
	Maximum:	138 Engine	1	
	12,5° at 2,063 rpm	Revolution	Less than 1300	rpm
Trailing	Starts:	Number of brushers	2	
	0° at 500 rpm	Brush length	16.5 mm (0.65	· · •
	Maximum:	Wear limit	8 mm (0.315 in	•
	12,5° at 2,063 rpm	Brush spring pressure	0.3 ~ 0.44 kg (10.6 ~ 15.5 oz)
13B Engine	i i	Pulley ratio of eccentric	1: 2,08	
Leading	Starts:	shaft and alternator		
	0° at 500 rpm	Ignition coil (Leading)	`	
	Miximum:	Type	LB-84 or FTC-3	3
	13,75° at 2,000 rpm	Primary resistance	0.9 ± 0.09 Ω s	t 20°C (68°F)
Trailing	Starts:	Ignition coil (Trailing)		
rrammy	0° at 500 rpm	Туре	LB-84 or FTC-3	3
	I	Primary resistance	0.9 ± 0.09 Ω at	20°C (68°F)
	Miximum: 13,75° at 2,000 rpm	1		
	13,75° at 2,000 rpm			
Vacuum advance		1	1	
12A Engine	La.		1	
Leading	Starts:			
	0° at 100 mm-Hg	1	Manual transmission	Automatic transmission
	(3,9 in-Hg)	1	transmission	LIBITSTITISSTOTI
	Maximum:	1	1	
	4,5° at -190 mm-Hg	Starting motor		00 1/14
	(7.5 in-Hg)	Capacity	1.2 KW	2,0 KW
Trailing	Start:	Lock test		
-	0° at -100 mm-Hg	Voltage	5.0 volt	4.0 volt
	(3,9 in-Hg)	Current	Less than	Less than
	Maximum:	İ	420 amp.	1,100 amp.
	15° at -400 mm-Hg	Torque	9.6 N-m	31 N-m
	(15,7 in-Hg)		(6.9 ft-lb)	(22.4 ft-lb)
138 Engine	(1017 1.97	Free running test	1	
	Starts:	Voltage	11.5 volt	11.5 voit
Leading	0° at -100 mm-Hg	Current	Less than	Less than
	_	32,13.11	60 amp.	100 amp.
	(3.9 in-Hg)	Speed	More than	More than
	Maximum:	Speak	6.500 rpm	3,500 rpm
	5° at -250 mm-Hg	Number of brushes	4	4
	(9,8 in-Hg)		17 mm	17 mm
Trailing	Start:	Brush length	1	(0.67 in)
	0° at —100 mm-Hg	1	(0,67 in)	
	(3.9 in-Hg)	Wear limit	11,5 mm	11,5 mm
	Maximum:	1	(0,45 in)	(0.45 in)
	12.5° -350 mm-Hg	Standard spring tension	1.4 ~ 2.6 kg	1.4 ~ 2.6 kg
	(13,8 in-Hg)	1	(49 ~92 oz)	(49 ~92 oz)
Condenser capacity	0,24 ~ 0.30 µF	Control switch	Solenoid	Solenoid
Ignition timing		Voltage required to close	Less than	Less than
Leading	1	solenoid contacts	8 volt	8 voit
12A Engine	0°ATDC	Undercutting mica	0.5 ~ 0.8 mm	0,5 ~ 0.8 mπ
138 Engine	5°ATDC	1	(0,020 ~	(0.020 ∼
•	20°ATDC	1	0,031 in)	0.031 in)
Trailing Timing mark location	Eccentric shaft pulley	Clearance between	Less than	ļ
Timing mark location	Eccentric shart bulley	armature shaft and bush	0,2 mm	l —
Spark plug	NGK: BR7EQ14, BR8EQ14		(0,008 in)	
Туре	· ·	Armature shaft end play	0,1 ~0.5 mm	0,1 ~0.5 mm
	BR9EQ14		(0,004 ~	(0.004~
	NIPPON DENSO	I	0,02 in)	0,02 in)
	W22EDR14	Clearance between	0.5 ~ 2.0 mm	0.5 ~ 2.0 mm
	W25EDR14	pinion and stop collar	(0.020 ~	(0.020 ~
	W27EDR14	prinori and stop contai	0.020 ~ 0.079 in)	0.079 in)
initial gap	1.4 ± 0.05 mm	1	0.078 !!!	5,5,5 117
	(0.055 ± 0.002 in)	ĺ		
Alternator				
	Negative			
Ground		1	1	I
Ground Rated output				.
	12V 50A			ļ
Rated output	12V 50A 12V 55A			

75 mm (0.62) 32 ~ 0.102 m (0.0013 a) 5 mm (0.005) 05 mm (0.75)	nm ~0,0040 in) 9 in) 600 in) nm ~0,0049 in) 9 in) 1 in)	Wear limit Synchronizer ring Clearance between synchronizer ring and side of gear when fitted Standard Wear Ilmit Lubricant Above —18°C (0°F) Below —18°C (0°F) TIGHTENIN Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	1.5 mm (0.0591 0.8 mm (0.0591 0.8 mm (0.0315 A.P.I. Service G SAE90 A.P.I. Service G SAE80 IG TORQUE N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	in) in) L-4 or GL-5	
75 mm (0,62 32 ~ 0,102 m (0,0013 s 5 mm (0,005 05 mm (0,75 40 ~ 0,125 m (0,0016 s 5 mm (0,005 mm (0,2756 mm (0,0118 mm (0,0394	m (2,9528 in) 48 in) nm 0,0040 in) 00 in) nm 0,0049 in) i in) i in)	synchronizer ring and side of gear when fitted Standard Wear limit Lubricant Above —18°C (0°F) Below —18°C (0°F) TIGHTENIN Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	0,8 mm (0,0315 A,P,I, Service G SAE90 A,P,I, Service G SAE80 IG TORQUE N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	ti-lb 7 ~ 11 6 ~ 9 9 ~ 12 6 ~ 9	
87 mm (0.62 32 ~ 0.102 m (0.0013 ~ 5 mm (0.005 05 mm (0.75 40 ~ 0.125 m (0.0016 ~ 5 mm (0.005 mm (0.2756 mm (0.0118 mm (0.0394	148 in) nm 0,0040 in) 100 in) nm 0,0049 in) 1 in) 1 in)	of gear when fitted Standard Wear limit Lubricant Above —18°C (0°F) Below —18°C (0°F) TIGHTENIN Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	0,8 mm (0,0315 A,P,I, Service G SAE90 A,P,I, Service G SAE80 IG TORQUE N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	ti-lb 7 ~ 11 6 ~ 9 9 ~ 12 6 ~ 9	
32 ~ 0,102 m (0.0013 s 5 mm (0,005 05 mm (0,75 40 ~ 0,125 m (0,0016 s 5 mm (0,005 mm (0,2756 mm (0,0118 mm (0,0394	nm ~0,0040 in) 9 in) 600 in) nm ~0,0049 in) 9 in) 1 in)	Standard Wear ilmit Lubricant Above —18°C (0°F) Below —18°C (0°F) TIGHTENIN Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	0,8 mm (0,0315 A,P,I, Service G SAE90 A,P,I, Service G SAE80 IG TORQUE N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	ti-lb 7 ~ 11 6 ~ 9 9 ~ 12 6 ~ 9	
32 ~ 0,102 m (0.0013 s 5 mm (0,005 05 mm (0,75 40 ~ 0,125 m (0,0016 s 5 mm (0,005 mm (0,2756 mm (0,0118 mm (0,0394	nm ~0,0040 in) 9 in) 600 in) nm ~0,0049 in) 9 in) 1 in)	Lubricant Above —18°C (0°F) Below —18°C (0°F) TIGHTENIN Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	A,P,I, Service G SAE90 A,P,I, Service G SAE80 IG TORQUE N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	1.4 or GL-5 L-4 or GL-5 11.6 ~ 9 9 ~ 12 6 ~ 9	
32 ~ 0,102 m (0.0013 s 5 mm (0,005 05 mm (0,75 40 ~ 0,125 m (0,0016 s 5 mm (0,005 mm (0,2756 mm (0,0118 mm (0,0394	nm ~0,0040 in) 9 in) 600 in) nm ~0,0049 in) 9 in) 1 in)	Above —18°C (0°F) Below —18°C (0°F) TIGHTENIN Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	SAE90 A,P,I, Service G SAE80 IG TORQUE N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	11-lb 7~11 6~9 9~12 6~9	
(0.0013 / 6 mm (0.005 mm (0.75 mm (0.0016 / 5 mm (0.005 mm (0.2756 mm (0.0118 mm (0.0394	~0.0040 in) 19 in) 100 in) 100 in) 100 in) 100 in) 11 in) 11 in)	Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	SAE90 A,P,I, Service G SAE80 IG TORQUE N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	11-lb 7~11 6~9 9~12 6~9	
(0.0013 / 6 mm (0.005 mm (0.75 mm (0.0016 / 5 mm (0.005 mm (0.2756 mm (0.0118 mm (0.0394	~0.0040 in) 19 in) 100 in) 100 in) 100 in) 100 in) 11 in) 11 in)	Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	A,P,I, Service G SAE80 IG TORQUE N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	ft-lb 7 ~ 11 6 ~ 9 9 ~ 12 6 ~ 9	
(0.0013 / 6 mm (0.005 mm (0.75 mm (0.0016 / 5 mm (0.005 mm (0.2756 mm (0.0118 mm (0.0394	~0.0040 in) 19 in) 100 in) 100 in) 100 in) 100 in) 11 in) 11 in)	Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	ft-lb 7 ~ 11 6 ~ 9 9 ~ 12 6 ~ 9	
05 mm (0.75 40 ~ 0.125 n (0.0016 ~ 5 mm (0.005 mm (0.2756 mm (0.0118 mm (0.0394	nm ~0,0049 in) (9 in) (1in) (1in)	Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	7~11 6~9 9~12 6~9	
40 ~ 0.125 n (0.0016 a 5 mm (0.005 mm (0.2756 mm (0.0118 mm (0.0394	nm ~0,0049 in) i9 in) iin) iin)	Plug for interlock pin hole Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	N-m 10 ~ 15 8 ~ 12 12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	7~11 6~9 9~12 6~9	
(0,0016 / 5 mm (0,005 mm (0,2756 mm (0,0118 mm (0,0394	~0,0049 in) i9 in) i in) i in) i in)	Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	10~15 8~12 12~16 8~12 130~210 25~35	7~11 6~9 9~12 6~9	
(0,0016 / 5 mm (0,005 mm (0,2756 mm (0,0118 mm (0,0394	~0,0049 in) i9 in) i in) i in) i in)	Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	10~15 8~12 12~16 8~12 130~210 25~35	7~11 6~9 9~12 6~9	
(0,0016 / 5 mm (0,005 mm (0,2756 mm (0,0118 mm (0,0394	~0,0049 in) i9 in) i in) i in) i in)	Control lever to control rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	8~12 12~16 8~12 130~210 25~35	6~9 9~12 6~9	
5 mm (0,005 mm (0,2756 mm (0,0118 mm (0,0394	9 in) in) in) in)	rod end Shift fork set bolts Shift rod end Main shaft lock nut Top switch	12 ~ 16 8 ~ 12 130 ~ 210 25 ~ 35	9~12 6~9	
mm (0,2756 mm (0,0118 mm (0,0394	in) lin) lin)	Shift fork set bolts Shift rod end Main shaft lock nut Top switch	8 ~ 12 130 ~ 210 25 ~ 35	6~9	
mm (0,0118 mm (0,0394	lin) in)	Shift rod end Main shaft lock nut Top switch	8 ~ 12 130 ~ 210 25 ~ 35	6~9	
mm (0,0118 mm (0,0394	lin) in)	Main shaft lock nut Top switch	130~210 25~35		
mm (0,0394	in)	Top switch	25~35	04 152	
		Top switch	1 1	g→ ~ 10Z	
mm (0,0394	in)	Overdrive switch	l oc '	18~25	
mm (0,0394	ini		25~35	18 ~ 25	
mm (0,0394	ini	Back-up light switch	25~25	18~25	
	, 1113	Speedometer driven gear	8~11	6~8	
1,0 mm (0,0394 in)		7B. AUTOMATIC TRANS	MISSION		
TIGHTENING TORQUE		Gear ratio			
· ·		Low	2,458		
N-m	ft-lb	Second	1,458		
20 500	200 - 262	Third .	1,000		
		OD (Fourth)	0.720		
,0~2,	13.020				
	<u></u>				
N		Fluid capacity	7.5 liters (7.9 t 6.6 l	J.S. quarts mp. quarts	
		•	8.5 mm (0.019)	? io)	
		1	0.0 11111 (0.018)	1117	
A Engine	13B Engine]		
3,622	← -		0.08.mm (0.005	31 in)	
2,186			0.000		
1,419	←				
1,000	-		0.25 mm (0.000	98 in)	
3.493	_←	_,,	3,25 ,5,50	****	
0.807	0,758				
·	l		0.25 mm (0.000	98 in)	
			0.4 ~ 0.16 mm		
\ 1,8 II	mp, quarts/	1	1	~0.0063 in)	
3 mm (0,001	2 in)		1		
		11 11	1		
		· · · · · · · · · · · · · · · · · · ·			
5 mm (0,003	59 in)		1.6 ~ 1.8 mm		
			1	~0,0709 in)	
			,,,,,,,,,,	-1,	
5 mm (0,005	59 in)	End play	0.5 ~ 0.8 mm (0.0197	~0.0315 in)	
		OD gear train			
		_	0.25 ~ 0.50 mr	n	
mm (0,0197	7 in)	Tim bigs		~0.0197 in)	
	N-m 10 ~ 500 8 ~ 27 1 A Engine 3.622 2.186 1.419 1.000 3.493 0.807 liters (2.1 L 1.8 l 3 mm (0.001	N-m ft-lb 00 ~ 500 289 ~ 362 8 ~ 27 13 ~ 20 N A Engine 13B Engine 3,622 ← 2,186 ← 1,419 ← 1,000 ← 3,493 ←	ORQUE N-m ft-lb 0 ~ 500 289 ~ 362 8 ~ 27 13 ~ 20 A Engine 138 Engine 3.622	N-m	

Valve body spring	Wire diameter	Free length
Engine stall speed	2,400~2	2,650 rpm
Limit	0,8 mm (0	
Planetary gear side		
	(0.	0098 ~0,0197 in)
Total end play	0.25 ~ 0.9	
Gear assembly		
and snap ring		
between retaining	late (0.	0315 ~ 0,413 in)
Total clearance me	ssured 0.8 ~ 1.09	5 mm
Low and reverse brake		
between retaining p and snap ring	(U.)	0315 ~0.0591 in)
Total clearance me		
Rear clutch	.	
drum	(0.0	$0197 \sim 0.0315 in$
End play of front of	lutch 0.5 ~ 0.8	mm
between retaining pand snap ring	olate (U.	0030 ~0,0709 1117
Total clearance me		mm 0630 ∼0.0709 in)
Front clutch	.	

Valve body spring	Wire diameter	Free length
Pressure regulator	11.7 ± 0.2 mm	43.0 ± 1.0 mm
valve	(0.4606 ± 0.0079 in)	(1,6929 ± 0,0394 in)
1st-2nd shift valve	6.6 ± 0.2 mm	32.0 ± 1.0 mm
	(0.2598 ± 0.0079 in)	(1,2599 ± 0,0394 in)
2nd-3rd shift valve	6.9 ± 0.2 mm	41,0 ± 1,0 mm
	(0,2717 ±0,0079 in)	(1.6142 ± 0.0394 in)
3rd-4th shift valve	7,3 ± 0,2 mm	25,8 mm
	(0,2874 ± 0,0079 in)	(1.0158 in)
Throttle back-up	7,3 ± 0,2 mm	31.8 mm
valve	(0,2874 ± 0,0079 in)	(1.2520 in)
Solenoid down shift	5,55 ± 0,2 mm	22,0 ± 1,0 mm
valve	(0.2185 ± 0.0079 in)	(0,8662 ± 0,0394 in)
2nd lock valve	5,55 ± 0,2 mm	33,5 ± 1,0 mm
	(0,2185 ± 0,0079 in)	(1,3189 ± 0,0394 in)
Throttle relief valve	6.5 ± 0.2 mm	26.8 ± 1.0 mm
	(0.2559 ± 0.0079 in)	(1.0551 ± 0.0394 in)
Orifice check valve	5,0 ± 0,2 mm	15.5 ± 2.0 mm
	(0.1969 ± 0.0079 in)	(0.6102 ± 0.0079 in)
	1	Į.

Shift speed

Throttle condition (Manifold vacuum)		mph
	D1 → D2	34~41
Kick-down (0 ~ 100 mm-Hg) (0 ~ 3,94 in-Hg)	$D_2 \rightarrow D_3$	63 ~ 70
	$D_3 \rightarrow D_2$	58 ∼65
	D2 → D1	29 ~36
Half throttle (200 ± 10 mm-Hg)	$D_1 \rightarrow D_2$	7~11
	D ₂ → D ₃	19 ~ 22
(7,87 ± 0,39 in-Hg)	D3 → D4	59 ∼ 70
Fully closed throttle	D3 → D1	7~11
Manual 1	12 → 11	27 ~34
Lock up on	D4	42~48

Governor pressure

Driving speed	Governor pressure	
mph	Kpa	lb/in ²
20	80~140	11 ~ 17
35	150~230	20~28.4
55	320~410	46 ~ 58

Line pressure

Manual	Engine Idling condition		Engine cond	
range	Kpa	Ib/in ²	Кра	lb/in²
R	400 ~ 700	57 ~ 100	1600 ~ 1900	228 ~ 270
D	300 ~ 400	43~57	900~1100	128 ~ 156
2	800 ~ 1200	114~171	800 ~ 1200	114~171
1	300 ~400	43 ~ 57	900 ~ 1100	128 ~ 156

TIGHTENING TORQUE

	N-m	ft-lb
Drive plate to converter weight	83~95	60~69
Drive plate to torque converter	35 ~ 50	25~36
Converter housing to engine	32 ~ 47	23 ~ 34
Converter housing to	45 ~ 55	33 ~ 40
transmission case		
Extension housing to	20~25	14 ~ 18
transmission case		
Oil pan	5~7	36 ∼51
Piston stem (when adjusting	12~15	9∼11
band brake)		
Piston stem lock nut	15~40	11 ~ 29
Servo piston retainer	7~9	5~7
One-way clutch inner race	13 ~ 18	9 ∼ 13
Control valve body to	5.5 ~ 7.5	4.0 ~ 5.4
transmission case		
Lower valve body to	2.5 ~ 3.5	1.8 ~ 2.5
upper valve body		
Side plate to control valve	2.5 ~ 3.5	1.8 ~ 2.5
body		
Resmer bolt of control valve	5~7	3.6 ~ 5.1
body		
Oil strainer	3~4	2,2 ~ 2,9
Governor valve body to	5~7	3,6 ~ 5.1
oil distributor		
Oil pump cover	6~9	4.3 ~ 6.5
Drum support	6~9	4.3 ~ 6.5
Inhibitor switch	5~7	3.6 ~ 5.1
Manual shaft lock nut	30 ~ 40	22 ~ 29
Oil cooler pipe set boilt	24 ~ 36	17 ~ 26
Oil pressure test plug	5 ~ 10	3.6 ~ 7.2
Actuator for parking	8~11	5.8 ~ 8.0
rod to extension housing		
İ		

8. PROPELLER SHAFT			Backlash between rack and sector gear			
Max, permissible run-out Max, permissible unbalance at 4,000 rpm At front At rear Universal Joint Journal swinging torque	0.4 mm (0.015) 15 cm-gr (0.21) 15 cm-gr (0.21) 0.3 ~ 0.8 N-m (2.6 ~ 6	in-oz) in-oz)	Worm bearing preload Without sector shaft and column bush With sector shaft and column bush Clearance between sector shaft and housing bush Wear limit	0.2 ~ 0.5 N-m (1.7 ~ 4.3 in-lb) 0.6 ~ 1.2 N-m (5.2 ~ 10.4 in-lb)		
TIGHTENII	NG TORQUE		End clearance of adjusting screw and sector shaft Lubricant	0 ~0.1 mm (0 ~0.004 in) A.P.I. Service GL-4 SAE90		
-	N-m ft-lb		Oil capacity	290 cc (0.31 U.S. quarts) 0.26 lmp. quarts)		
Yoke to rear axle companion flange	35 ~38	25 ~ 27	- Max, Wheel angle on full lock Wheel on inside of curve Wheel on outside of curve Idler arm revolving torque	39°40' ± 2° 32°14' ± 2° 2 ~ 6 kg/135 mm (4.4 ~ 13.2 lb/5,315 in		
9. REAR AXLE			Kuckle arm ball stud revolving torque	More than 0,4 kg (14 oz)		
Reduction ratio Standard diff. Limited slip diff. Backlash of ring gear and pinion Pinion bearing preload (Without pinion oil seal) Differential side bearing preload (Without pinion) Backlash of side gear and pinion gear Rear wheel bearing end play Lubricant Standard diff. Above —18°C (0°F) Below —18°C (0°F) Limited slip diff. Oil capacity Standard diff. Limited slip diff. "L" (Case spread)	3.933 4.076 0.09 ~ 0.11 mm (0.0035 ~ 0.0043 in) 0.9 ~ 1.4 N-m (7.8 ~ 12.2 in-lb) 0.6 ~ 2.1 N-m (5.2 ~ 18.2 in-lb) 0 ~ 0.1 mm (0 ~ 0.0039 in) 0 ~ 0.1 mm (0 ~ 0.0039 in) A.P.I. Service GL-5 SAE90 A.P.I. Service GL-5 SAE90 (Special Lubricant For Limited Slip Differentials) 1.2 liters (1.3 U.S. quarts 1.1 imp. quarts) 1.6 liters (1.7 U.S. quarts 1.4 imp. quarts) 185.428 ~ 185.500 mm (7.3004 ~ 7.3033 in)		Steering geometry King-pin inclination 13 inch tire vehicles 14 inch tire vehicles Camber 13 inch tire vehicles 14 inch tire vehicles 14 inch tire vehicles Max. permissible difference in camber between sides Camber offset Caster Max. permissible difference in caster between sides Caster trail Toe-in 10B. POWER STEERING Type Reduction ratio Free play of steering wheel (Turning direction) Standard Limit	10°44′ 11°20′ 1°00′±30′ 0°35′±30′ ±30′ 38 mm (1.50 in) Right-hand side 4°10′±30′ Left-hand side 3°40′±30′ ±30′ 20 mm (0.79 in) 0 ~6 mm (0~0.24 in) Integral ball nut 15.83 : 1 5~20 mm (0.2~0.8 in) 40 mm (1.57 in)		
TIGHTENING TORQUE			sector gear Clearance between gear housing and ball nut			
	N-m	ft-lb	Limit Clearance between gear	0.15 mm (0.0059 in)		
Ring gear Differential side bearing caps Companion flange to pinion	70 ~ 85 38 ~ 53 13 ~ 18	51 ~61 27 ~38 94 ~130	housing and sector shaft Limit Worm bearing preload Before adjusting	0.10 mm (0.0039 in)		
10A. MANUAL STEERING			backlash (3.5 ~ 6.1 in-lb) After adjusting 0.4 ~ 0.7 N-m			
Reduction ratio Free play of steering wheel (Turning direction) Standard Limit 17.0 ~ 20.0 : 1 5 ~ 20 mm (0.2 ~ 0.8 in) 40 mm (1,57 in)		backlash Max, wheel angle on full lock Wheel on inside of curve Wheel on outside of curve Oil	(4,3 ~ 7.8 in-lb) 39°14' ± 2° 32°14' ± 2° ATF Type F (M2C33-F)			

TIGHTENI	NG TORQUE		Remaining pressure 50 ~ 100 kpa (7.1 ~ 14.2 lb/in²)		4.2 (b/in²)	
N-m		ft-lb	Clearance between drum	0.1 ~0.15 mm		
			and lining	(0.004 -	~0.006 in)	
Steering wheel nut	40 ∼ 50	29 ~36	Parking brake	C C catabas	m 10 ka /22 lb	
Steering gear housing to	44 ~ 55 32 ~ 40		Lever travel	6 ~ 8 notches	st 10 kg (22 lb	
frame	1					
Pitman arm to sector shaft	150 ~ 180	108 ~ 130				
Idler arm bracket to frame	44 ~ 55	32~40				
Idler arm to center link	25~35 18~25		TIGHTENING TORQUE			
Pitman arm to center link	30~45	22 ~33	· •••	1	1	
Tie-rod to center link Tie-rod to knuckle arm	30~45 30~45	22 ~33 22 ~33		N-m	ft-lb	
Tie-rod to knuckle arm	70~80	51 ~ 58				
Steering gear box end	230~260	166 ~ 188	Master cylinder union bolt	10~16	7~12	
cover lock nut	200 4 200	100 100	Master cylinder outlet plug	60~70	43~50	
		1	Brake tube union nut	13~22	9~16	
	<u> </u>	L	Flexible hose union	25~35	18 ~ 25	
11. BRAKES			Wheel cylinder union bolt	7~10	5~7	
Brake pedal free travel			12. WHEELS AND TIRE	<u> </u>	1	
Before power brake	7~9 mm		12. WILLES AND THE	-		
piston operates	(0.28 ~		Wheel disc	1		
Brake pedal height	190 ~ 195 mm (7.48 ~ 7.68 in)		Front	5–J x 13 WDC		
(from floor)				5%-JJ x 13 WDC (Aluminum		
Master cylinder			Rear	5-J x 13 WDC		
Bore	20,64 mm (0,813 in)			514-JJ x 13 WDC (Aluminum		
Clearance between piston			Front	514-JJ x 14 W(oc	
and bore	0.040 0.135					
Standard	0.040 ~ 0.125 mm (0.0016 ~ 0.0049 in)		Rear	5%JJ x 14 WDC		
Wear limit	0,0018 ~ 0,0048 iii)		Temporary spare tire	4—T x 15		
Power brake unit	0.15 11111 (0.000 111)		Run-out limit			
Clearance between piston	0.1 ~ 0.5 mm		Radial	1.0 mm (0.04 in)		
and push rod	(0.004 ~ 0.020 in)			0.5 mm (0.020 in) Aluminum		
Front disc brake	(0,004 / 0,020 ////		Latersl	1,0 mm (0,04 in) 0,5 mm (0,020 in) Aluminum		
Thickness of brake disc				0,5 mm (0,020	in) Aluminun	
Standard	18 mm (0,7087 in)		Tire	405 770 HB 42		
Limit	17 mm (0,6693 in)		Front	185/70 HR 13 165HR 13		
Max, allowable lateral	0,1 mm (0,0039 in)			165HH 13 205/60 VR 14		
run-out of brake disc			Rear	1 205/60 VR 14		
Thickness of lining				165HR 13		
Standard	9 mm (0,3543 ln)			205/60 VR 14		
Thickness limit	1 mm (0,039 in)		Temporary spare tire	T135/70 D 15	1 ' ''	
Caliper cylinder bore	50.80 mm (2.0	in)	Inflation pressure	1 135/70 0 15		
Rear disc brake	1		Front	190 kpa (27 ps	i)	
Thickness of brake disc	10 mm (0,3937	inì		200 kpa (28 ps		
Standard Limit	9 mm (0.3543 in)		Rear	190 kps (27 psi)		
Max, allowable lateral				200 kpa (28 ps		
run-out of brake disc	0,1 mm (0.0039	9 in)	Temporary spare tire	420 kpa (60 ps	i)	
Thickness of lining		-	Run-out limit	1		
Standard	6 mm (0.2362 in)		(with wheel disc)	2 5 mm (0 000 l=1		
Thickness Ilmit	1 mm (0,039 in)		Radial	2.5 mm (0.098 in)		
Caliper cylinder bore	34,93 mm (1,3752 in)		Lateral Front wheel bearing	3,0 mm (0,118 in) 0,45 ~ 0,65 kg		
Rear drum brake			preload (at wheel set t olt)	(0.99 ~ 1.43 lb)		
Drum diameter			P. 41200 (41 11100) 401 (171)	1,3,00 /0		
Standard	200 mm (7.874					
Limit	201 mm (7.913	(חו פ				
Thickness of lining	40 mm (0 1575	int late				
Stendard Thickness limit	4.0 mm (0.1575 in) 1.0 mm (0.039 in)			<u> </u>		
I nickness limit Wheel cylinder bore	1.0 mm (0,039 in) 19.05 mm (0,750 in)		TIGHTENII	NG TORQUE		
Wheel cylinder bore Clearance between piston	19,05 /////	~ ***				
and bore				N-m	ft-lb	
Standard	0.040 ~ 0.125 r	nm l				
			l	1	ı	
	(0.0016	~0.0049 in)	Wheel bolts	90 ~ 120	65~87	