

FOREWORD

This service manual has been prepared for the purpose of assisting service personnel of our distributors and dealers for effective service and maintenance of DATSUN 510.

Since proper maintenance and service are most essential to satisfy our customers by keeping their cars in the best condition, this manual should be carefully studied. The followings should be noted for effective utilization of this manual.

1. Explanations in this manual are mainly concerning the model P510-U (Right Hand Drive), but will easily be referred also for the left hand drive models and for the conversion models.
2. Since only the informations concerning the chassis and body are described herein, please refer to both this and the service manuals for the engines for complete details of the car.
3. All the parts names in this manual conform to DATSUN 510 PARTS CATALOG, and only the genuine service parts listed in this parts catalog should be used as replacements.
4. All information, illustrations and specifications contained in this manual are based on the latest product information available at the time of publication approval.
5. It is emphasised that those who use this manual revise the contents according to the SERVICE JOURNAL issued by the factory, which carries the latest factory approved servicing method.
6. Rights for alternation in specifications and others at any time are reserved.

NISSAN MOTOR CO., LTD.

TOKYO, JAPAN

SERVICE MANUAL

Datsun

MODEL 510 SERIES

CHASSIS and BODY



SECTION GI

GI

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GENERAL INFORMATION



Fig. GI-1 Side view of sedan



Fig. GI-2 Side view of station wagon

CHASSIS

BODY NUMBER PLATE

The body number plate identifies the type of car, engine capacity in cc, max. horse power (SAE), wheelbase, engine no. and car no.

The body number plate is attached to the left hand hood ledge.

DATSUN		TYPE 510
ENGINE CAPACITY	1595 cc	
MAX. HP at RPM	96 HP at 5600 rpm	
WHEELBASE	2420 mm	
ENGINE NUMBER	L16-00986	
CAR NO.	P510-00034	
NISSAN MOTOR CO., LTD. YOKOHAMA JAPAN		

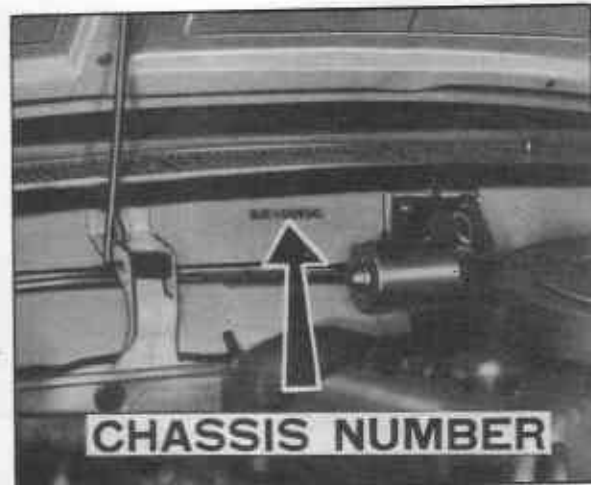


Fig. GI-3 Body number plate

MODEL IDENTIFICATION

SEDAN

Model number	Class	Engine	Transmission
510-U, L510	Deluxe	L13	Three speed remote control
P510-U, PL510		L16	Three speed remote control
P510-UT, PL510-T, PL510-UT			Four speed floor shift
P510-UA, PL510-A, PL510-UA			Automatic three speed
510-SU, L510-S	Standard	L13	Three speed remote control
P510-SU, PL510-S		L16	Three speed remote control
P510-SUT, PL510-ST			Four speed floor shift
P510-UTK, PL510-TK	SSS	L16 with SU twin carb.	Four speed floor shift

WAGON

WP510-U, WPL510	Deluxe	L16	Three speed remote control
WP510-UT, WPL510-T, WPL510-UT			Four speed floor shift
WP510-UA, WPL510-A, WPL510-UA			Automatic three speed

GENERAL INFORMATION

GENERAL VIEW

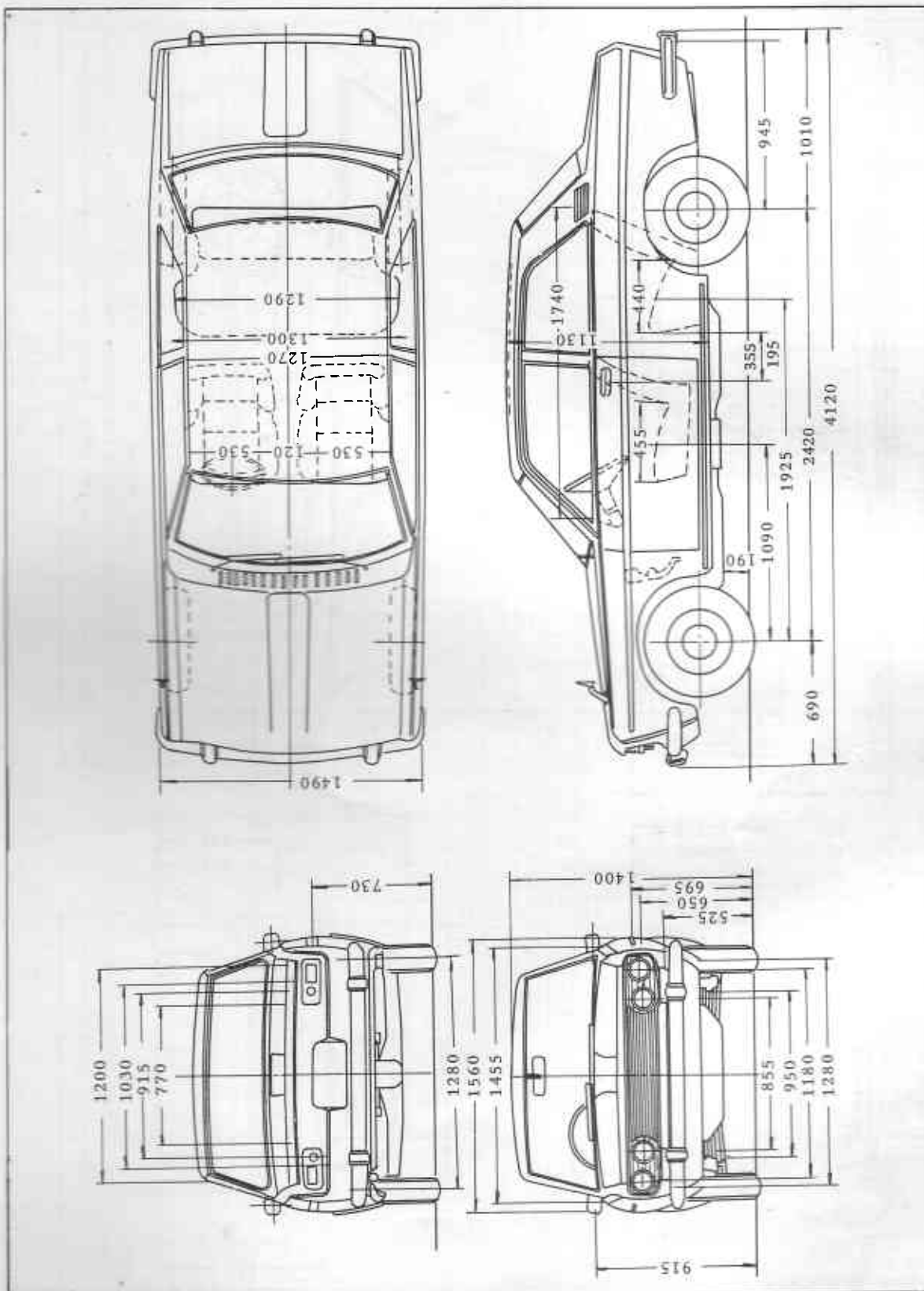


Fig. GI-4 General view (Sedan)

CHASSIS

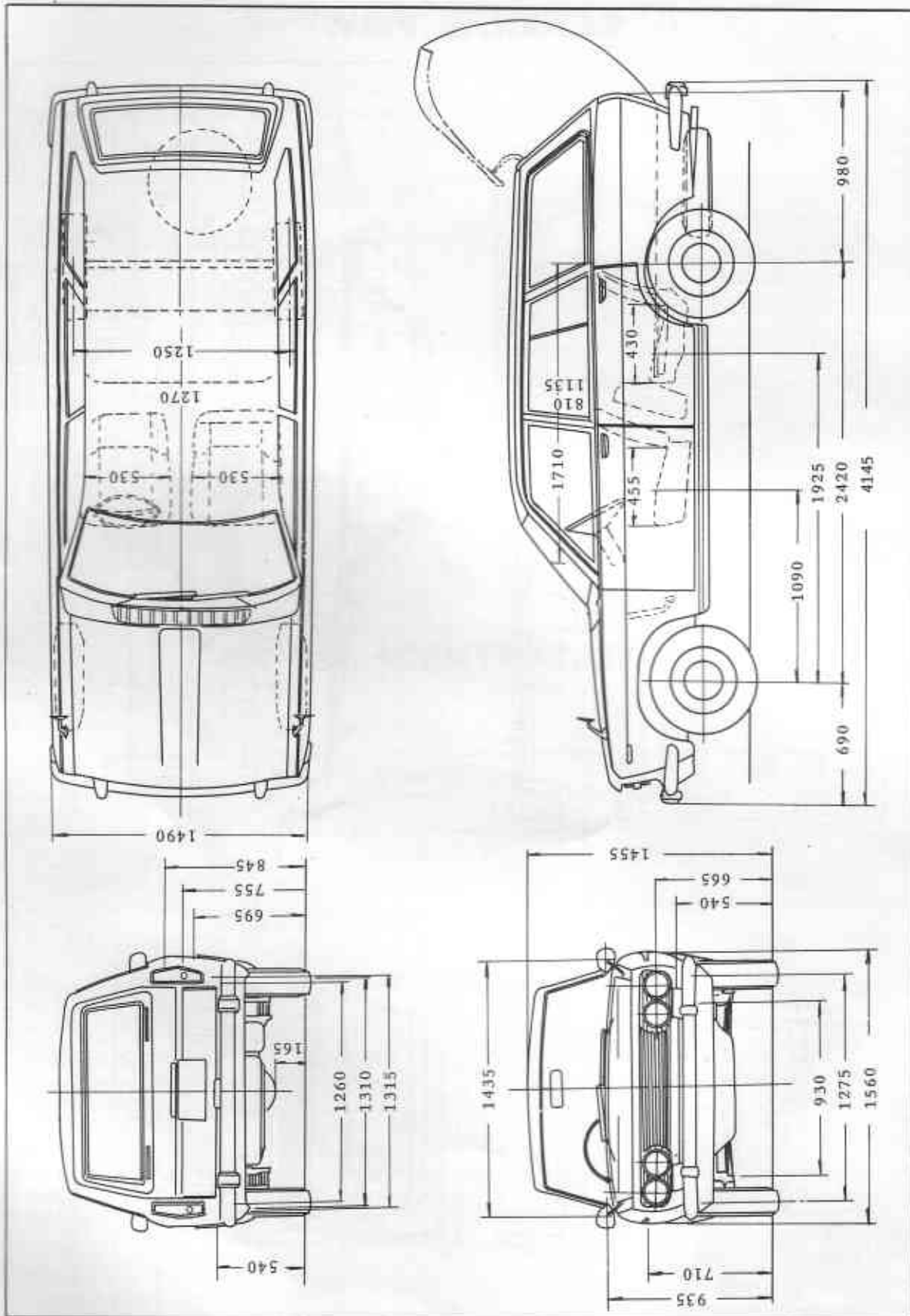


Fig. GI-5 General view (Wagon)

GENERAL INFORMATION

MAIN SPECIFICATIONS AND DIMENSIONS

Item	Model	Standard			Deluxe				SSS	Wagon		
		510-SU L510-S	P510-SU PL510-S	P510-SUT PL510-ST	510-U L510	P510-U PL510	P510-UT PL510-T *PL510-UT	*PL510-UA P510-UA PL510-A	P510-UTK PL510-TK	WP510-U WPL510-TK	*WPL510-UT WPL510-UT WPL510-T	*WPL510-UA WPL510-UA WPL510-A
Overall length		4,070 mm (160.2 in.)			4,120 mm (162.2 in.)					4,145 mm (163.2 in.)		
Overall width		1,560 mm (61.4 in.)										
Overall height		1,400 mm (55.1 in.)				1,435 mm (56.5 in.)						
Wheelbase						2,420 mm (95.3 in.)						
Dimensions Room space	Inner length	1,610 mm (63.3 in.)				1,710 mm (67.3 in.)						
	Inner width	1,270 mm (49.9 in.)				1,290 mm (50.7 in.)						
	Inner height	1,130 mm (44.4 in.)				1,135 mm (44.6 in.)						
Tread	Front	1,280 mm (50.4 in.)				1,275 mm (50.2 in.)						
	Rear	1,280 mm (50.4 in.)				1,260 mm (49.6 in.)						
Min. road clearance		190 mm (7.4 in.)				165 mm (6.4 in.)						
Vehicle weight		880 kg (1,940 lb.)	885 kg (1,951 lb.)	890 kg (1,962 lb.)	905 kg (1,995 lb.)	910 kg (2,006 lb.)	915 kg (2,017 lb.) *926 kg (2,041 lb.)	*959 kg (2,114 lb.) 935 kg (2,061 lb.)	915 kg (2,017 lb.)	940 kg (2,072 lb.)	*965 kg (2,127 lb.) 945 kg (2,083 lb.)	*990 kg (2,182 lb.) 970 kg (2,138 lb.)
Maximum speed		145 km/h (90 MPH)	160 km/h (100 MPH)	160 km/h (100 MPH)	145 km/h (90 MPH)	160 km/h (100 MPH)	160 km/h (100 MPH)	155 km/h (96 MPH)	165 km/h (102 MPH)	160 km/h (100 MPH)	160 km/h (100 MPH)	155 km/h (96 MPH)
Performance	Grade ability sin	0.359	0.400	0.425	0.353	0.393	0.418 *0.435	0.457 *0.452	0.425	0.378	0.403 *0.396	0.475 *0.472
	Minimum turning radius	4.8 m (15.7 ft.)										
	Seating capacity	5										
	Maximum payload											
Engine model		L13	L16		L13	L16						
Battery volt. capacity		12V-40 or 50AH										
Fuel tank capacity		45 L (11.9 U.S. gal.)										
Clutch type		Dry single disc	Diaphragm spring		Dry single disc	Diaphragm spring						
Transmission type		Three speed		Four speed	Three speed		Four speed	Automatic	Four speed	Three speed	Four speed	Automatic
Final gear type		Hypoid gear										
Final gear ratio		4.375	3.900	3.700	4.375	3.900	*3.900 3.700	3.900	3.700	3.889	3.700	3.889
Steering gear type		Recirculating ball										
Brake system Service	Front	Two leading							Disc	Two leading		
	Rear	Leading and trailing										
	Parking brake	Mechanical operated on rear wheels										
Suspension	Front	Independent strut type with tension rods and stabilizer										
	Rear	Fully independent semi-trailing arms with coil springs and shock absorbers							Semi-elliptic leaf spring			
Tire	Front	5.60-13-4PR							5.60S13-4PR	5.60-13-4PR		
	Rear	5.60-13-4PR							5.60S13-4PR	5.60-13-4PR		

CHASSIS

FINAL, TRANSMISSION AND SPEEDOMETER GEAR USAGE CHART

Item \ Model	(L)510-S(U) (L)510-(U)	P(L)510-S(U) P(L)510-(U) P(L)510-(U)A	P(L)510-S(U)T P(L)510-(U)T P(L)510-(U)TK PL510-UT	WP(L)510-(U) WP(L)510-(U)A WPL510-UA	WP(L)510-(U)T WPL510-UT
Final gear ratio	4.375	3.900	3.700	3.889	3.700
Transmission ratio					
1st	3.263	3.263	3.382	3.263	3.657
2nd	1.645	1.645	2.013	1.645	2.117
3rd	1.000	1.000	1.312	1.000	1.419
4th	-	-	1.000	-	1.000
Rev.	3.355	3.355	3.364	3.355	3.638
Speedometer gear ratio	19/5	17/5	16/5	17/5	16/5

RECOMMENDED LUBRICANTS AND PERIODICAL MAINTENANCE

RECOMMENDED LUBRICANTS

Temperature	°F	Under 10	10 ~ 90	Over 90	Lubricating points
	°C	Under -12	-12 ~ 32	Over 32	
Engine oil (MS)		SAE 10W (MS)	SAE 20W (MS)	SAE 30W (MS)	Engine
Gear oil	API GL-4	SAE 80W (MP)	SAE 90W (MP)	SAE140W (MP)	Transmission steering, diff. (wagon)
	API GL-5	SAE 80W (MPS)	SAE 90W (MPS)	SAE140W(MPS)	Diff. (sedan)

GENERAL INFORMATION

RECOMMENDED LUBRICANTS

Make Lubricant	Mobil Oil Co.	Shell	Caltex Oil Co.		Esso Oil	BP	Castrol	Lubricating Point	
			Texaco Oil Co.	California Standard Oil					
Engine oil	Multi-grade	Mobiloil special HD 10W-30	Shell super motor oil Shell X-100 10W-30	Haroline custom made 10W-30	-----	-----	BP viscostatic longlife motor oil or BP viscostatic Motor Oil	Castrolite 10W/30	Engine Engine hood lock Door outside handle Cylinder key
	Regular	Mobiloil arctic or mobiloil A or AF	Shell X-100 30, 20, 20W 10W	Haroline	R.P.M. motor oil HD	Estor HD	BP, HD motor oil	Castrol 20HD, 30HD	
Gear oil	API. GL-4	Mobilube GX 90	Spirax 90 EP	Universal gearlube EP	R. P. M. gearlube	Pen-O-Led	BP Gear oil 90 EP	Castrol hypoy light SAE = 80 Hypoy SAE = 90 Hipress SAE = 140	Transmission Steering gear box Differential carrier for wagon
	API. GL-5	Mobilube HD	Spirax heavy duty	Multi-purpose thuban EP Multi-Gear lubricant EP		Esso gear oil GX	Hypogear 90 universal	Hypoy	Differential carrier for sedan
Multi-Purpose grease	Mobil Grease	Refinax A	Marfak		R. P. M. wheel bearing grease	Eston	BP energrease L2	Castrol LM	Propeller shaft joint Front wheel bearing Steering linkage Ball joint Transmission control linkage Hand brake linkage Accelerator pedal linkage Engine hood hinge & control Door lock and hinge Window regulator Trunk lid hinge and lock Seat adjuster rail Tail gate hinge, stay and torsion bar
Brake grease									Brake and clutch pedal Front & rear brake shoe linkage
Automatic transmission fluid	-----	Donax T6	Texamatic	-----	Esso ATF	BP automatic transmission fluid type A Suffix A	Castrol TQ automatic transmission fluid type A Suffix A		Automatic transmission
Brake fluid (SAE 70R3)	Mobil brake fluid	Shell donax B	Heavy duty brake fluid		Esso hydraulic brake heavy duty 400	BP brake fluid	Castrol HD		Brake master cylinder Clutch master cylinder

CHASSIS

LUBRICATION CHART

MAINTENANCE FREQUENCY EVERY	LUBRICATION															
	Daily	(1000 km)	(3000 km)	(6000 km)	(10000 km)	(15000 km)	(20000 km)	(25000 km)	(30000 km)	(35000 km)	(40000 km)	(45000 km)	(50000 km)	(60000 km)	(70000 km)	(80000 km)
50000 km (30000 mile)																
40000 km (24000 mile)																
20000 km (12000 mile)																
10000 km (6000 mile)																
6000 km (3000 mile)																
3000 km (1500 mile)																
1000 km (500 mile)																
Daily																
Engine																
Fluid																
Grease																
Gear Oil																
Engine																

O = Clean, check, adjust or supply ● = Change

GENERAL INFORMATION

CHECKING CHART

MAINTENANCE FREQUENCY EVERY	CHECKING POINTS (ENGINE)											MAINTENANCE PERIODS										
	50000 km (30000 mile)	40000 km (24000 mile)	20000 km (12000 mile)	10000 km (6000 mile)	3000 km (3000 mile)	1000 km (600 mile)	Daily	1000 km (600 mile)	3000 km (2000 mile)	6000 km (4000 mile)	10000 km (6000 mile)	15000 km (9000 mile)	20000 km (12000 mile)	25000 km (15000 mile)	30000 km (18000 mile)	35000 km (21000 mile)	40000 km (24000 mile)	45000 km (27000 mile)	50000 km (30000 mile)			

O = Clean, check, adjust or supply ● = Change