NORDWEST FACT SHEET

wheels, forks			vec). Many parts are common and basically by changing the nsformed from serious trail bike to serious street fighter with
Ŷ	raphite / Magenta (Black ellow / Black. Yellow sea wo tone blue. Dark blue	t	
W Frame no. Engine no.			eft side of frame head stock gearbox, behind cylinder
Dimension	Wid Heig Whe Seat Peda	, ght gel base- 14151 Height	- 2180mm - 800mm - 1180mm nm - 870mm - 320mm - 141kg (claimed)
	arly bikes have a short se ater bikes have a longer Steering head a Trail	seat and a rea	
F	ront fork	- Work	shop manual page 13-20
	Oil seal size Bikes before 2 This seal is n Seal & bush set Info on forks Seal fitting tool	- 150m - 41mm - In left - 200cc - 400cc - 400cc - 400cc - 41mm - 41mm 228 * 71037 hu ot available sc - part n - GeN 19.1.20598 a	

D 0				
Rear Sus			1 1 1	- Workshop Manual page 14-22
	воде prog			Not rebuildable.
	Stroke	Only spri	ng pre ioaa	adjustment.
			1	- 150mm adjustable replacement. Telephone: 01295-710030
Wheel Fr		can supp	ny a runy	- Workshop Manual page 12-12
wheel Pi	Three spok	a cast allo	,	- 3.50x17"
	Bearing siz		/•	- ******* part no. 321891
	Rim. Radi		a limit	
	Rim. Axia			- 2.0mm
	Spindle be			- 0.2mm
	Tyre			- 120/70-17R tubeless(Original)
	0	/70 ZR17	Draoon M	TR01or Corsa MTR01c for best grip / shorter life.
	Pressure	// 0 ZI(I)	Drugon In	- 2.1 bar (30psi) solo
	1 / 000 00 0			- 2.2 bar (32psi) passenger
Wheel Re	ear			- Workshop Manual. page 14-20
		e cast allo	- 4.50x17	1 1 0
	Bearing siz		, 11001117	- *******part no. 348382
	Rim. Radi		ı limit	- 2.0mm
	Rim. Axia			- 2.0mm
	Spindle be			- 0.2mm
	Tyre			- 160/60-17R tubeless(Original)
	0	/60 ZR17	Dragon M	TR02 or Corsa MTR02c for best grip / shorter life
	Pressure		0	- 2.3 bar (33psi) solo
				- 2.4 bar (35psi) passenger
Brake Fro	ont Disc			- Workshop Manual page 15-18
	Twin semi	floating d	iscs.	- part no. 946052
	Diameter	,		- 270mm
	Thickness	(new)		- 5.0mm
	Wear limit	Ļ	- 4.0mm	
	Planarity i	limit		- 0.15mm
Calipers				- Twin Grimmeca four piston calipers.
	Brake fluid	ł	- DOT 4.	Should be changed every two years.
	Piston dia			- 2x28mm & 2x25mm
	Piston wea	ır limit		- 0.05mm
	Pad			- part no. 318833
	Ferodo			- part no. FDB 529
	Seal kit			- part no. 346269
Brake Re		1 1.		- Workshop Manual page 15-18
	Single fixe	d disc		- part no. 343413
	Diameter	()		- 240mm
	Thickness		2 (- 4.5mm
Callinar	Wear limit		- 3.6mm	Train airtea
Caliper	Brake Flui	J		- Twin piston - DOT 4. Should be changed every two years.
	Piston dia			- 32mm
	Piston wea			- 0.05mm
	Pad	.,		- part no. 323626
	Ferodo			- part no. 525020 - part no. FDB 383 R
	Seal kit			- part no. 346268
Fuel	Som All			- = Ron 96. (use 4 star)
	Tank	capacity		- 12 ltr.
		reserve		- 2 ltr.

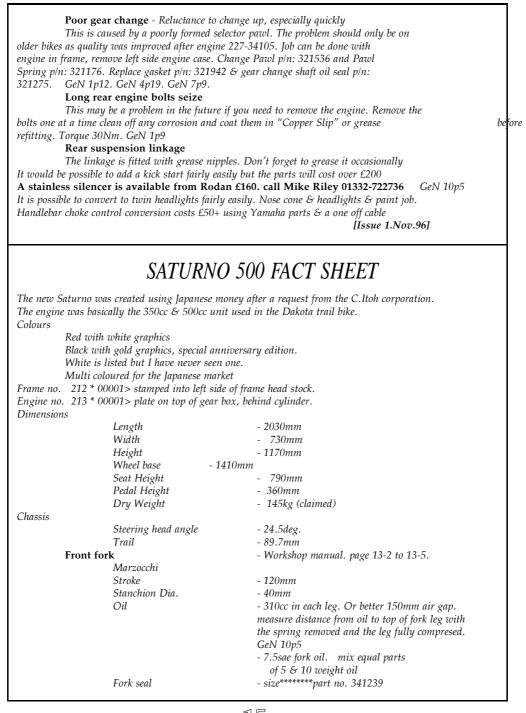
	Bore & Strok	ke		- 98x74mm
	Capacity			- 557.9cc
	Compression	ration		- 10.5:1
	Compression			- 10 to 12 bar (new)
	Compression	1051		- 9 to 11 bar (over 5000km)
	BHP			- 49.5 bhp at 7250 rpm. (claimed)
	Torque			- 52 Nm at 6250 rpm. (claimed)
Oil	Torque			- 10w40 semi synthetic. GeN.10p2
Oli	0:1			- 10040 semi synthetic. Getv.10p2 - 2.2ltr.
	Oil capacity			
	Oil filter			- Technocar R15 p/o. 321205
C 1 <i>i</i>				- Most Renault 4 filters will fit. GeN 1p10
Coolant				- Permanent, undiluted
	capacity			- 1.3ltr.
Air filter				- Oiled foam. part no. 324505
	oil			- Foam filter oil or SAE 90 gear oil.
Valves				- Workshop manual page 7-5, also GeN 7p19
	Inlet diamete	er		- 36mm (x2)
	Exhaust diar	neter		$-32mm(x^2)$
	Clearance	1	Inlet	- 0.05mm (cold)
		1	Exhaust	- 0.10mm (cold)
	Details on ch	iecking cle	arances a	re available from GeN, send SAE.
Cam belt		_		- 321406/2 Isoran part no. 321406
	To change be	elt you nee	d tool par	rt no. 19.1.20570 (rotor puller) size 38 x 1.5mm
	available from	n tool hire	scheme.	w/s manual. page.6-2 to 6-6.
	also GeN 2p	2,#3p13, ;	#6p4	1.0
	Bob Wright	t can sup	ply a che	eap pattern tool. Phone: 01934-413847
	0	1.		available from GeN, send SAE.
Clutch		0		- Wet, multi plate. Workshop manual page 9-1 to 9-6
	Friction plat	es		- 8 x part no. 324851
	Thickness			- 2.9 to 3.0mm (new)
	Steel plates			- 7 x part no. 328546.
	encer prince			- max distortion allowed: 0.10mm.
Final driv	7e			- Info on final drive GeN 6p3
i intar arry	Gear box s	nrocket		- 14 tooth part no. 328016 (same as RC600)
	Gear box s	PIOCKCI		- 15 tooth. part no. 321586 can be used (Saturno)
		orocket oil	coal	- 13 tooth, purt no. 521386 cun be used (suturno) - p/n: 328232 should be changed
	sp	στουκεί οιι	seui	when sprocket is changed
	Poor oproci	cot		- 43 tooth. part no. 946060
	Rear sprock	Kei		1
				- 5 x **mm bolt fixing ****mm radius.
	6		11	- ****dia centre hole. ***mm offset
		ush drive		- 5x part no. 939091
		ush hub b	earıng	- 1 x part no. 946578
	Chain _	_		- 520 x 108 links. Info on final drive GeN 6p3
		ree play		- 35 - 40mm. (vertical movement)
				= 319.4mm (12.57in) max.
	TA	Vith chain	tight mea	usure from centre of pin 1 to centre of pin 21
	V			
Carburett				
Carburett	or	V2A twin	choke un	it. (same as RC600)
Carburett	or Teikei E30P			it. (same as RC600) and the other is the constant velocity (CV) type.
Carburett	or Teikei E30P	conventio	onal slide	and the other is the constant velocity (CV) type.
Carburett	or Teikei E30P One choke is Both are fed	conventio from one f	onal slide float chan	and the other is the constant velocity (CV) type.

ELECTRICAL SYSTEM	
Ignition - Two systems are used	
Capacitive Discharge - early bikes up to 228 * 51763	
Workshop manual page 17-6>	
Recognisable by - 6 wires from ignition switch	
- Separate rev limiter box (pink & green wires)	
- 9 wires from ignition box	
- 3 groups of wires from alternator	
- 2 fuses	
If the engine turns it should start with the capacitive system.	
Charger coil - part of stator part no.324471	
resistance test - 218 ohms + 10% (pink - green)	
Pick up coil - part no.324433	
resistance tests - 117 ohms + 10% (white/green - yellow/black)	
- 117 ohms + 10% (yellow/blue - yellow/black)	
H.T. coil - part no. 328647	
primary res. $-0.2 - 0.3$ ohm $+ 10\%$ (white/lt.blue - black)	
secondary res 9.2 K ohms + 10% (white/lt.blue - H.T.)	
Inductive Discharge - later bikes from 228 * 51764	
Workshop manual page 17-9>	
Recognisable by - 4 wires from ignition switch	
- No separate rev limiter	
- 7 wires from ignition box	
- 2 groups of wires from alternator	
-3 fuses	
Because the inductive system gets its power from the battery, if the battery is getting flat (below 6v) the control box will disable the ignition to protect the	
circuit (motor may turn but engine will not start / no spark).	
Pick up coil - part no. 947125	
resistance test - 150 ohms + 10%	
(yellow/black - yellow/dark blue)	
H.T. Coil - part no. 946789	
primary res. $-4.0 \text{ 0hms} + 10\%$	
(white/light blue - red/dark blue)	
secondary res 13.8 K Ohms + 10% (red/dark.blue - H.T.)	
Timing - 7deg (static). 30deg at 4000rpm. not adjustable.	
Spark plug - Champion RA4HC	
- NGK DPR9EA9 or DPR9EV9 is a	
good alternative.	
- Nippon Denso X27 EPRU-9 or X27 EPRZU-9	
Plug gap - 0.6 to 0.7mm	
Plug torque - 12 to 15 Nm. put "Copper Slip" on threads	
Plug cap resistance - 1 K ohm.	
Charging circuit - <i>Three phase. AC. alternator.</i>	
Workshop Manual page 16-1>	
Battery - 12 volt 14 Ah. Yuasa YB14-LA2	
Regulated voltage - 13.5 - 14 volts DC regulator/rectifier	
p/n: 328041	
Bulbs (all 12 volt) - Workshop manual. page19-2>	
(switches, horn, lights)	
Head Light - 60/65w halogen H4 type	
(single rectangular light) Tail / stop - 5/21w	
Tail / stop - 5/21w Indicator - 10w bayonet	
materion - 100 ouyonet	

	Driving (side) light	- 3w
	Instrument illumination	- 2w mini cap less
	Warning lights	- 1.2w mini cap less
Fuses	0.0	- blade type (common on cars)
	Capacitive ignition	$-2x \ 15w$
	Inductive ignition	- 1x 20w, 1x 15w, 1x 7.5w
POSSIBLE PROBL	EMS	
Fans touc	h radiators	
Check that	fan shrouds have about 3mm	(1/8") clearance all round from radiators to
		ive leak. The fans are mounted on
slotted holes, so are e	asy to adjust. GeŇ 1p9	
	er thread can be broken of	f
		the threaded part of the tank neck to be pulled
off the neck. It is not	easy to effect a good repair bu	t some resins and super glue can be
	ey work well. GeN 6p12. Gel	
Fork seal		,
Fork seals	on upside down forks do not i	last very well. These are quite easy to change
		it the cheapest p/n:952633 You
		vailable from tool hire scheme. You
can use "Leak Proof"	seals, these are guaranteed an	id can be pushed in with your
fingers (no tool neede	d). These can be obtained fron	1 a dealer who sells "Bike Bitz"
parts. GeN 5p19. Gel		
Body pan	els crack from fixing screv	v holes
		osely. They must go in without the panel
having to be stretched	l. If they will not go in enlarg	e all the holes slightly and then all
should fit. Nose cone	screws first, then tank screws	, then the big screw in the middle of
the panel. After 228-2	70862 a revised system of fixin	<i>ig the tank panels was used to</i>
	have an earlier bike you may a	
1.Screws o	only in the rear fixings to the	tank.
2.Spacers	under the crescent at the front	of the tank to stop it clamping the panel tight.
3.Cross ba	r is in two pieces with rubber	washers under fixing bolts.
4.strips of	draught excluder along top of	tank in front of rear panel fixing screws.
Cam belt		
		ll on the original belt change it NOW - it is old
		5. You will need tool p/n:19.1.20570 to
		ool hire scheme or Bob Wright can supply a
cheap pattern puller.	Full details of doing the job an	re available from GeN, send an sae.
Check tension every 4		
Starting 1		
		cold. Keeping the battery well charged helps. I
		getting blocked, it is not easy to
		ottle closed. Push starter button.
		b. Engine should start when you
		it chamber by loosening the small
cross-head screw, the	n refill with 'fresh' fuel. GeN	5p16. GeN 5p19. GeN 6p17. GeN 7p9.

Starter clutch failure

Some last for ever but others fail in a few thousand kilometres. Similar units are used on some other makes and they give trouble as well. Piaggio tell us that quality has been improved now so let's hope it will cease to be a problem in time. Job can be done with engine in frame, remove left side engine cover. Starter clutch is p/n: 328652. Replace gasket p/n: 321942 & gear shaft oil seal p/n: 321275. Details of possible repair in GeN 8p16. Also see GeN 6p5.



Spring fre	e length	- 420mm + 2.5mm part no. 318949 x 2
	Min. length	415mm
WP dual	rate springs are availd	able. p/n:9932.100.D. phone. 01280-705888
Info on for	rks	- GeN 5p20. 6p13. 10p5
Rear Suspension		- Workshop manual. page no.14-6 to 14-9.
Marzocch	i mono shock	
Stroke		- 130mm
Only spri	ng pre load adjustmer	nt.
Not rebui	ldable	
Wheel Front		- Workshop manual. page 12-2 to 12-6.
Marvic A	ero light weight three	spoke cast alloy - 3.00x17"
Bearing st	ze	- ****** part no. 328972 x 2
Rim. Rad	ial variation - 2.00mn	n (limit)
Rim. Axia	al variation - 2.00mn	n (limit)
Spindle be	end	- 0.20mm (limit)
Workshop	manual	- page 12.1 - 12.5
Tyre		- 110/70-17 Pirelli MP7 (Original)
110/70 ZI	R17 from Bridgestone	, Metzler, Pirelli etc.
Pressure		- 2.1 bar (30psi) solo
Wheel Rear		Workshop manual. page 14-2
Marvic A	ero light weight three	spoke cast alloy - 4.00x17"
Bearing st	ze	- ********** part no. 328972 x 2
	ial variation- 2.00mn	
Rim. Axia	ıl variation - 2.00mn	n (limit)
Spindle be	end	- 0.20mm(limit)
Tyre		- 140/70-17 Pirelli MP7 (Original)
		0/60 but 160 is too wide for the rim. I think
they recommend it because they		,
recommend fitting a 160 on a 4		0 ,
0 .	, Pirelli etc. all produ	ice 150/60 ZR17 rear tyres.
Pressure		- 2.3 bar (33psi)
Brake Front Disc		- Workshop manual. page 15-2 to 15-6
	old Line fully floating	
Disc		- 300mm dia. part no.939102
	Thickness (new)	- 5.00mm.
	Wear limit - 4.5mm	
Caliper		- Brembo four piston caliper
	Fluid	- Dot 4. change every two years
		Wear limit: 31.94mm minimum.
	Piston seal kit	- part no. 318897
		- part no. 318895
	Ferodo	- part no. FRP 408
Brake Rear Disc		- Workshop manual. page 15-2 to 15-6
	Non floating disc	- 240mm dia. part no. 343413
	Thickness (new)	- 6.00mm.
	Wear limit - 5.5mm	
Caliper		- Grimeca single piston
		Wear limit: 31.94mm minimum.
	Piston seal kit	- part no. 305840
	0	- part no. 323626
	Ferodo	- part no. FDB 207R

	Fuel Tan	k					
		capacity		- 20 ltr.			
		reserve		- 2 ltr.			
		Check that tank can not touch frame tubes especially near front.					
ENGINE							
		Bore & Stroke		- 92x74mm			
		Capacity		- 491.9cc			
		Compression ration		- 9.8:1			
		Compression test		- 9 to 11 bar (new)			
				- 8 to 10 bar (over 5000km)			
		BHP		- 44 bhp at 7000 rpm. (claimed)			
		Torque		- 47 Nm at 6000 rpm. (claimed)			
	Oil			- 10w40 semi synthetic			
		Oil capacity		- 2.2ltr.			
		Oil filter		- Technocar R15 part no. 321205			
		Change oil every 400	0km and c	hange filter every other oil change.			
	Coolant	· ·		- permanent. un-diluted. Silkolene Pro-cool etc.			
		capacity		- 1.3ltr. Change coolant every two years.			
	Air filter	, ,		- Oiled sponge. part no. 939055.			
				Workshop manual page 3-5			
		Oil		- Foam filter oil or SAE 90 gear oil.			
	Valves			, ,			
		Inlet diameter		- 31mm (x2)			
		Exhaust diameter		-28mm(x2)			
		Clearance	Inlet	- 0.05mm (cold). w/s manual page 3-5.			
			Exhaust				
		Details on checking of	clearances a	are available from GeN, send SAE.			
	Cam belt	:		- 321406/2 Isoran. part no. 321406.			
				Workshop manual page 6-2>			
		0 0	,	rt no.19.1.20501 available from tool hire scheme			
				pattern tool. Phone:01934-413847			
		Full details on doing	the job are	e available from GeN, send SAE.			
	Clutch			- Wet, multi plate			
		Friction plates		- 8 x part no. 324851			
		Thickness		- 2.9 to 3.0mm (new). wear limit 2.7mm			
		Steel plates		- 7 x part no. 328546			
		Warp limit		- 0.10mm max.			
	Final driv			151			
		Gear box sprocket		- 15 tooth. part no. 321586			
		Sprocket oil seal		- size: 35 x 47 x 7. part no.328232			
		Rear sprocket		- 5 x (8mm) bolt fixing *****mm radius.			
				- *****dia centre hole. Sprocket is flat			
		<i>c</i> 1 . 1		- 43 tooth. part no. 939211			
		Chain		- 520 x 104 links			
		Slack		-35 - 40 mm of vertical movement.			
				s = 319.4mm (12.57in) max.			
	Carlerout		n tignt me	asure from centre of pin 1 to centre of pin 21			
	Carburet		VC				
		Dell' Orto PHM 40		with accelerator numm			
			sille card t	vith accelerator pump			
		Air screw Float level	ງ 2 ງ⊑.	- 1.5 turns open			
		Float level Full carb spec availa	- 23 - 251 ble from C				
			ne ji uni Ge	LIN, JUIN JAL			

ELECTRICAL SYS	STEM	- Workshop manual. page 16-2	
	Decided Constitued 12 F	- Three phase AC alternator. 18	30w
Battery	Regulated & rectified - 13.5 -	- 14 Ah. Yuasa YB14-LA2	
Bulbs (al	ll 12 volt)	- Workshop manual. page 19-2	to 19-8
Duibs (ui	Head Light	- 40/45w tungsten. Bosch bayo	
	Tail / stop - 5/21w	10/10/20 rungbient. Doben buyon	ier juung
	Indicator	- 10w bayonet	
	Driving (side) light	- 5w	
	Instrument illumination	- 2w mini cap less	
	Warning lights	- 1.2w mini cap less	
Fuses		- 2 x 15w blade type (common	
Ignition		- Workshop manual. page 17-2	
	Timing	- 7deg (static). 30deg at 4500rp	-
	Charger coil	- part of stator. part no. 32823	
	Resistance test	- 150 ohm + 10% (pink to greet	n)
	H.T. Coil	- part no.321825	t blue to black)
	Primary res. Secondary res.	- 0.2 - 0.3 ohm + 10% (white-l - 4.5 K ohms + 10% (white-lt.k	
	Pick up coil	- part no.328240	····· ··· 11.1./
		m + 10% (white-green to white-re	d)
Spark pl		- Champion RA4HC (original)	
1 1	- NGK DPR9EA9 or DPR9EV9 is a good alternati		79 is a good alternative.
		- Nippon Denso X27 EPRU-9	
1	Plug gap	- 0.6 to 0.7mm	
	Torque	- 12 to 15 Nm. put "Copper Sl	ip" on threads
	Plug cap	- 1 K ohm resistance	
POSSIBLE FAULT			
	hes radiator		2(1/0'')
		. Check that fan shroud has about	
front of the shroud.	au rouna. The jun mountings a	re slotted but if there is not enough	n uujusimeni, irim ine
, ,	ate bottom link bolt can seize	a	
		ension linkage every year . Suppo	rt rear of bike.
		he bearings are self aligning ball je	
		lower long bearing needs to be cle	
		erable and can easily get full of wa	
Long rea	r engine bolts can seize		
		u need to remove the engine. Remo	
		coat them in "Copper Slip" or gre	ase before
, 0	Torque 30Nm. GeN 1p9		
	lutch failure	thousand kilowature Cimile	a ana wood on come d
		thousand kilometres. Similar unit	
	trouble as well. Piaggio tell us t be a problem in time. Job can be		remove left side engine
	is p/n: 328652. Replace gasket p		gear shaft oil seal p/n:
	f possible repair in GeN 8p16. A	lso see GeN 6n5	
,	iches frame tubes	we dee derv ope.	
		n move and touch the frame tubes a	where they are
		ppening a leak will develop. Placi	
	d make a big difference.		