



TECHNICAL NETWORK LEADERSHIP

50 cc

## Datasheet

Reference : 755859

### GENERAL CHARACTERISTICS :

#### SPECIFICATIONS :

Company Name : XR6 50 cc

Type mines\*\* : DR01A

(\*\* official French body responsible for regulating weights and measures and changes made to motor vehicles).

#### DIMENSIONS (in mm) :

Length : 1865

Width : 675

Height (without rear-view mirrors) : 1100

Ground clearance : 150

Wheel base : 1265

#### WEIGHT (in kg) :

Laden weight : 115

#### STEERING :

Steering column mounted upon rolling bearings.

#### CAPACITIES (in litres) and RECOMMENDATIONS :

Fuel tank (including reserve) : 11,75 : super unleaded petrol (95 or 98) only.

Oil sump : 1,1: semi synthetic or synthetic for two stroke engines with separate oiling. Complies with API TC or JASO FC

Cooling system : 0,7 : protection : -20°C

Gear box : 0,75 : SAE 10W30

Fork : 175 cm<sup>3</sup> per tube

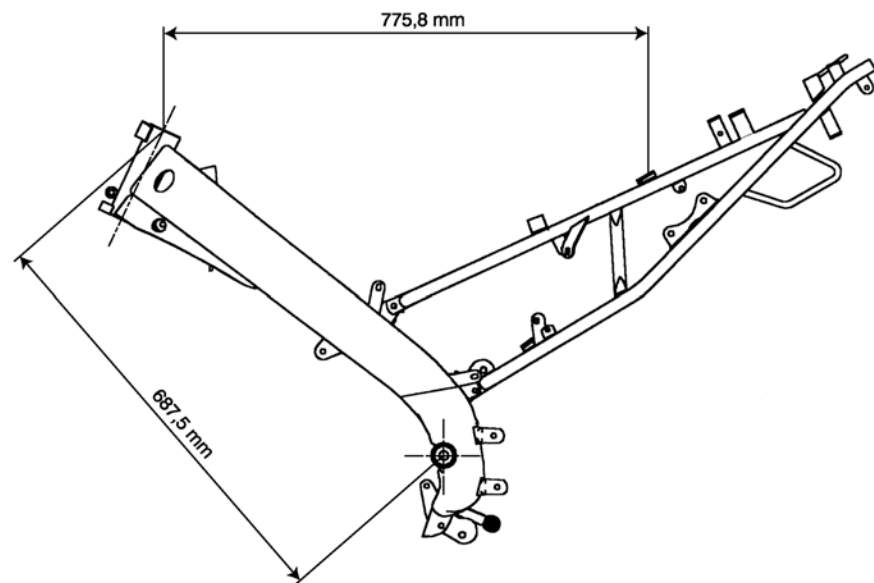
Braking system : DOT3 or DOT4

#### LUBRICATION :

Separate lubrication by piston pump, synchronized with the throttle grip.

Driven by a gear set from the crankshaft. The oil is injected directly into the carburettor.

Version 2



\* : Not completed

#### COOLING :

Cooling by pump driven water circulation driven by a gear set from the crankshaft.

Pressurized, sealed circuit with pump, radiator, expansion tank and thermal valve.

#### ENGINE :

2 stroke single-cylinder, with balance weight.

Direct intake via reed valve, into the crankcase.

Scavenging by 5 transfers.

Cylinder capacity : 49,7 cm<sup>3</sup>

Bore 1 shore : 40,3 x 39

Max power : 1,32 kW

Max power rating : 6500 rpm

Max torque rating : 4000 rpm

#### TRANSMISSION :

By pinion and ring integral to the gearbox and the rear wheel through a rollers chain (126 links - pitch : 12,7)

Primary transmission : 20 x 71

Secondary transmission : 12 x 52

Gearbox with 6 ratios.

Oil bath multi-disc clutch with manual control (3 smooth discs, 4 lining discs)

#### SUSPENSIONS :

Front suspension type : reverse telescopic fork.

Travel : 170 mm

Rear suspension type : oscillating arm with variable flexibility and a combined central hydraulic spring-shock absorber.

Travel : 45 mm

#### FRONT BRAKE :

Single disc type, hydraulic control.

Diameter of the brake pistons : 25 mm x 2

Disc diameter and thickness : 260 – 3,5 mm

Mini thickness : 3 mm

Diameter of the master-cylinder : 12 mm

#### REAR BRAKE :

Single disc type, hydraulic control.

Diameter of the brake piston : 32 mm

Disc diameter and thickness : 220 – 3,5 mm

Mini thickness : 3 mm

Diameter of the master-cylinder : 3 mm

#### WHEELS AND TYRES :

Integral aluminium wheels and tubeless tyres.

	Front	Rear
Rim dimensions :	1,85" x 16"	2,50" x 16"
Tyres dimensions :	90/90 x 16"	120/80 x 16"
Pressures (bar) :	2	2,3
Max wheel disc :	*	*
Balance :	*	*

### TIGHTENING TORQUES (Nm) :

#### ENGINE :

Cylinder head : 18

Crankcase : 11

Spark plug : 22

#### CYCLE PART :

Engine mounting on chassis : 28

Front wheel : 45

Upper nut on the steering column : 50

Rear wheel : 65

Shock-absorber mounting, rear, upper : 43

Inner : 43

Front brake calliper : 25

Front brake disc : 1

Rear brake calliper : 25

Rear brake disc : 1

### ADJUSTMENTS AND CHECKS :

#### CYLINDER / PISTON :

Ring gap clearance.

Upper : 0,15 to 0,30 mm

Lower : 0,15 to 0,30 mm

#### CONNECTING ROD/CRANKSHAFT :

Crankshaft run-out : 0,04 mm

#### CARBURATION :

Carburettor reheated by water with manual starter.

Make : type : DELL'ORTO PHBN 12 HS

Main jet : (catalysed) 60 (not catalysed) 82

Idle : (catalysed) 36 (not catalysed) 36

Needle (type and adjustment step) : A34 3<sup>rd</sup> step

Starter jet : 45

Mixture screw : 1 rpm ½

Idle adjustment : 930 ± 200 rpm

CO<sup>2</sup> % adjustment : 3,5%

IGNITION :

Ignition unit : combined ignition box/high voltage coil DUCATI  
Spark plug : NGK BR9ES  
Electrode gap : 0,5 mm  
Ignition advance : 20° before PMH  
Low voltage coil resistance : 700Ω  
Secondary winding resistance : 5,2 kΩ ± 20 %  
Spark plug cap resistance : 5 kΩ ± 10 %  
Pick up resistance : 125Ω

ELECTRICAL EQUIPMENT :

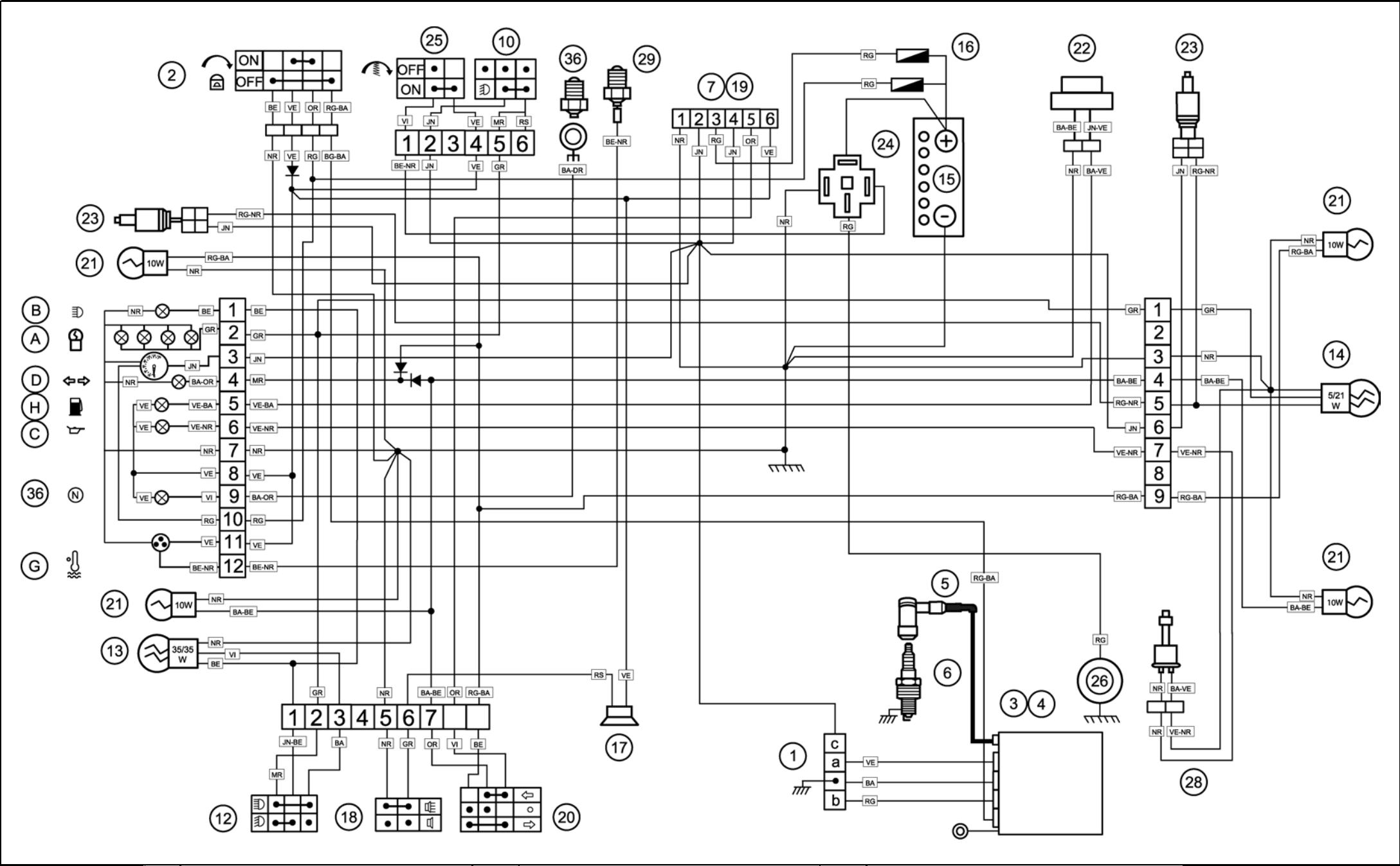
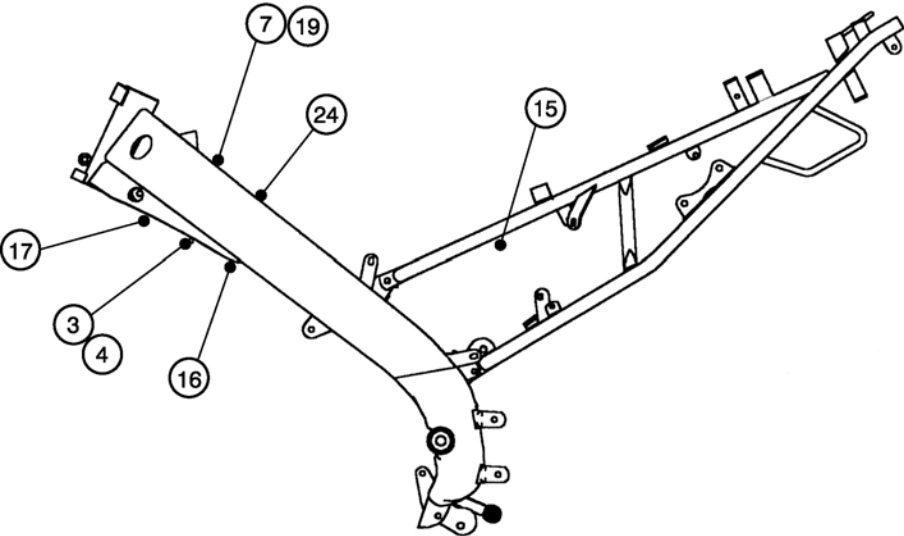
Current generator (type and power) : 12V - 85W  
Make : DUCATI  
Stator resistance : 0,5Ω  
Battery regulation voltage : 14,5 ± 0,5V  
Battery (type and capacity) : 12V 4Ah  
Lighting voltage : alternating current regulation at : 13,5 ± 0,5V

STARTER :

Power and type : 85W  
Make : DUCATI

LIGHTING AND FUSES :

	Quantity	Power
Headlamp (code light) :	1	12V - 35/35W
Red stop lamp :	1	12V - 5/21W
Indicator lamps :	4	12V - 10W
Number plate lighting :	*	
Dash board lighting :	3	12V - 1,2W
Instrument panel indicator lamps :	5	12V - 1,2W
Main fuse :	2	7,5A
Signalling fuse :	*	
"Side light" bulb :	*	



A	Instrument panel lighting	7)	Regulator, rectifier (A) : Regulator AC (B) : Regulator-rectifier DC	23)	Stop light switch	BA :	White
B	Main beam control	8)	Automatic choke	24)	Starter relay	BA-BE :	White/Blue
C	Oil level warning light	9)	Resistor (in line with choke) 6,7Ω - 5W	25)	Starter switch	BA-NR :	White/Black
D	Indicator control light	10)	Light switch	26)	Starter motor	BC :	Light blue
E	Fuel gauge	11)	Resistor (parallel to lighting) 5,9Ω - 30W	27)	Current limiter	BE :	Blue
F	LED "Anti theft device"	12)	Dip switch (main/low headlight)	28)	Oil level switch	GR :	Grey
G	Temperature gauge	13)	Headlight	29)	Temperature sensor	JN :	Yellow
H	Warning light "reserve"	14)	Stop/tail light	30)	Immobilizer	JN-BA :	Yellow/White
J	Oil pressure warning light	15)	Battery	31)	Antenna for anti-theft device	JN-BE :	Yellow/Blue
K	Watch	16)	Fuse	32)	"Side light" bulb	JN-NR :	Yellow/Green
1)	Generator a : Ignition coil b : Pick up c : Alternating current d : Battery charge current	17)	Horn	33)	Number plate light	JN-VE :	Yellow/Green
2)	Ignition switch	18)	Horn switch	34)	Lateral stand switch	MR :	Brown
3)	CDI unit	19)	Indicator relay	35)	Emergency switch (ignition)	NR :	Black
4)	Ignition coil (high voltage)	20)	Indicator switch	36)	"Neutral" switch (gearbox)	OR :	Orange
5)	Spark plug socket (resistive) 5 kΩ	21)	Indicator bulb	37)	Oil pressure switch	RG :	Red
6)	Spark plug (resistive) 5 kΩ	22)	Fuel gauge pickup	38)	Cooling fan	RG-NR :	Red/Black
				39)	Thermo-switch cooling fan	RS :	Pink
				40)	Electrical carburettor heating	VE :	Green
				41)	Power supply unit	VE-NR :	Green/Black
				42)	Switch "Reserve"	VI :	Purple