



ludix



50 cc IAE

TECHNICAL NETWORK LEADERSHIP

Datasheet

Reference: 757954

GENERAL CHARACTERISTICS

SPECIFICATIONS

Company name: Ludix 10 Off Road  
Official type-approval code: L1AACA

DIMENSIONS

Length: 1650 mm  
Width: 665 mm  
Height (without rear-view mirrors): 1070 mm  
Ground clearance: 110 mm  
Wheelbase: 1210 mm

WEIGHT

Unladen weight: 76.5 kg

STEERING

Steering column mounted with ball-bearing cone and cup.

CAPACITIES AND RECOMMENDATIONS

Fuel tank (including reserve) : 5.5 l : super unleaded petrol (95 or 98) only.  
Oil tank: 1.2 l: Semi synthetic for 2 stroke engines with separate oiling. Complies with standards: API TC or ISO EGC or ISO EGD  
Crankcase: \*  
Cooling system: \*  
Relay box: 0.12 l SAE 80W90  
Fork: \*  
Braking circuit: DOT 4

LUBRICATION

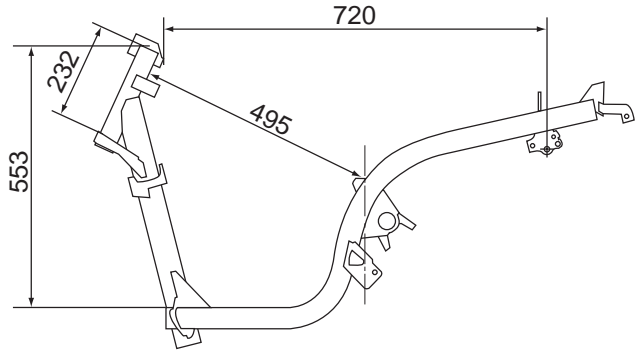
Separate lubrication by Dell'orto electric pump driven by the control unit. The oil is injected directly into the carburettor.

OIL PUMP CONTROL UNIT

Type: Electric  
Make: Dell'orto

COOLING

By a circulation of forced air by means of a turbine on the flywheel magneto.



ENGINE

2-stroke single-cylinder. Air injected into the exhaust system and catalytic converter.  
Direct intake via valves into the crankcase.  
Scavenging by 5 transfer ports.  
Cubic capacity: 49.9 cc  
Bore x stroke: 39.9 x 39.8 mm  
Max. power output: 3.2 kW  
Max. power rating: 7100 tr/mn  
Max. torque rating: 6800 tr/mn

AIR PUMP

Type: Piston pump  
Make: Dell'orto

TRANSMISSION

By 2 variable pulleys and V-type belt. 6 roller type drive pulley mounted on the left shank of the crankshaft. Fixed flange of the pulley equipped with cooling fins to cool the belt.  
Driven/centrifugal 3 block lined clutch pulley mounted on the end of the relay box input shaft.

RELAY BOX

By shaft and pinions. Double set of pinions.  
• 1st gear teeth set: Helical.  
• 2nd gear teeth set: Helical.

SUSPENSION

Type of front suspension: Upside down telescopic front fork.  
Travel: 73 mm  
Type of rear suspension: Combined spring and hydraulically-damped shock absorber.  
Travel: 65 mm

FRONT BRAKE

Single disc type, hydraulic control.  
Diameter of the brake piston: 32 mm  
Disc diameter and thickness: 155 mm - 3 mm  
Mini. thickness: 2.5 mm  
Diameter of the master-cylinder: 11 mm

REAR BRAKE

cable-controlled, single cam drum type.  
Brake drum diameter: 110 mm  
Brake lining thickness: 3.8 mm

WHEELS AND TYRES

Integral aluminium wheels and tubeless tyres.

	Front	Rear
Rim dimensions	2.5" x 10"	3" x 10"
Tyres dimensions	120/90 - 10	130/90 - 10
Pressures (bar)	1.3	1.6
Max. wheel lateral runout	0.8 mm	0.8 mm
Balance	*	*

TIGHTENING TORQUES

ENGINE

Cylinder head: 12 to 15 Nm  
Exhaust mounting on the cylinder: 15 to 18 Nm  
Crankcase: 8 to 12 Nm  
Spark plug: 20 Nm

CYCLE PART

Engine mounting on connecting rod: 57 to 70 Nm  
Front wheel: 60 to 70 Nm  
Upper nut on the steering column: 70 to 80 Nm  
Rear wheel: 100 to 120 Nm  
Shock-absorber mounting rear, upper: 43 to 50 Nm  
Lower: 20 to 25 Nm  
Front brake caliper: 25 to 35 Nm  
Front brake disc: 27 to 32 Nm

ADJUSTMENTS AND CHECKS

CYLINDER/PISTON

Piston ring gap.  
Upper: 0.025 ± 0.01 mm  
Lower: 0.025 ± 0.01 mm

CONNECTING ROD/CRANKSHAFT

Crankshaft run-out: 0.05 mm

CARBURETION

Carburettor.  
Make and model: GURTNER PY 12  
Adjustment: 410  
Main jet: 56  
Idle jet: 36  
Needle: L5035E  
Starter jet: 45  
Mixture screw: 1 tr/1/4 to 1 tr 1/2  
Idle setting: 1600 tr/mn  
Adjustment % CO: \*

IGNITION

Ignition unit: CDI  
Spark plug: NGK CR7EB  
Electrode gap: 0.6 to 0.7 mm  
Ignition advance: fixed 13°  
Ignition coil: TEC MP11 or T11C X7A  
Primary coil resistance: 0.26 Ω ± 20 %  
Secondary coil resistance: 3 kΩ ± 20 %  
Spark plug cap resistance: 5 kΩ ± 20 %  
Pick-up resistance: 120 Ω ± 10 %

ELECTRICITY

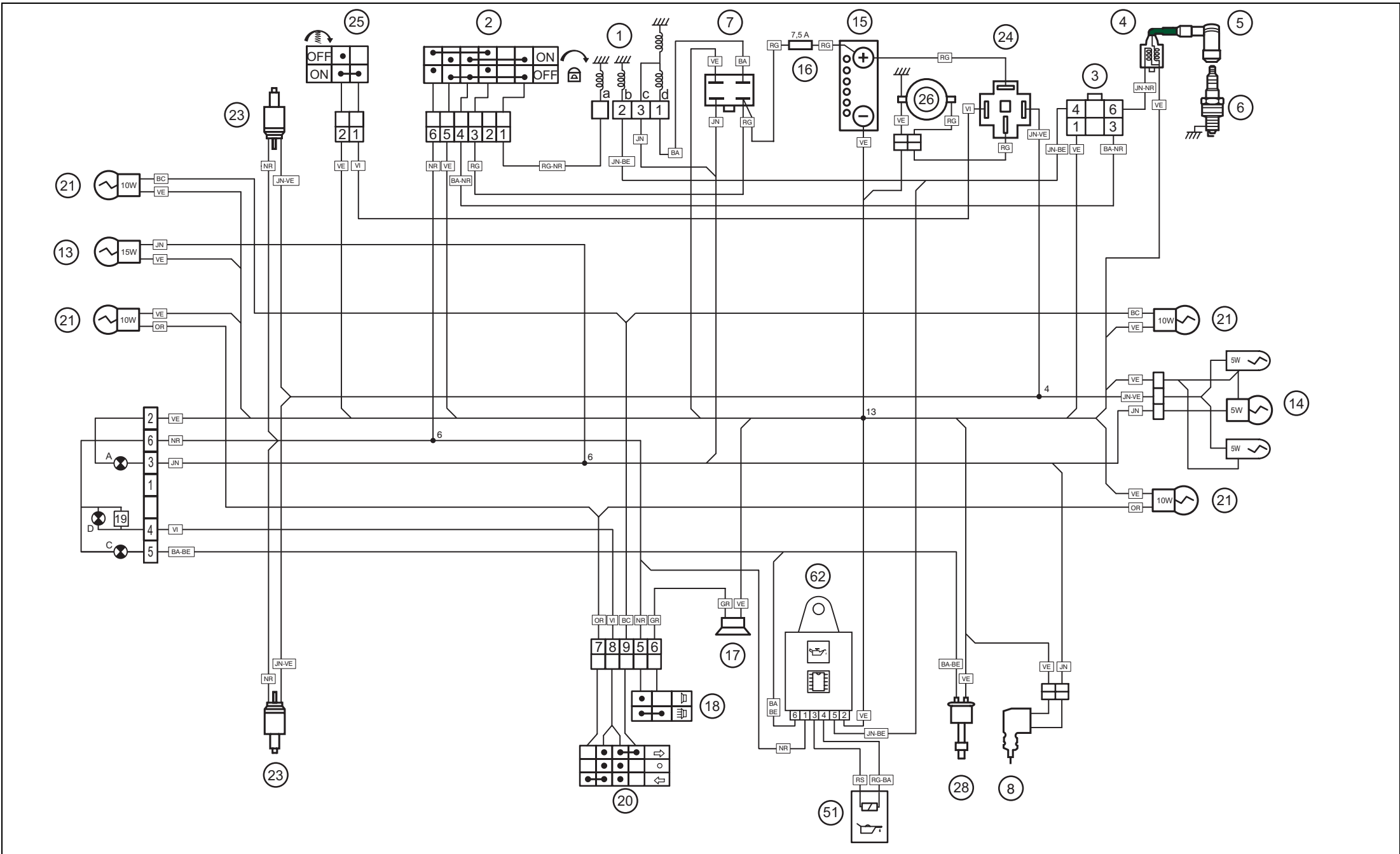
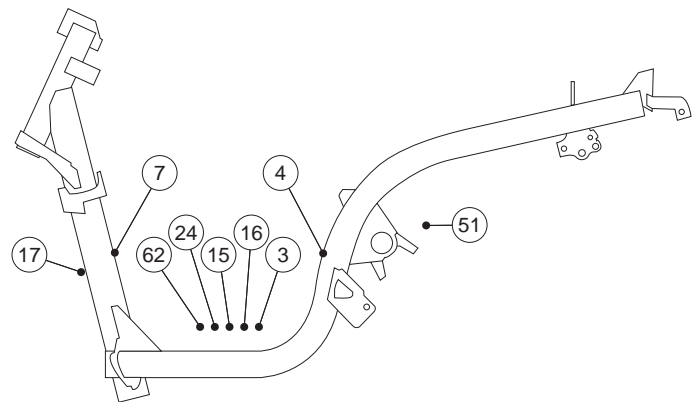
Current generator (type and power): AC/DC 89 W  
Make: KOKUSAN  
Stator resistance: Yellow wire 0.6 Ω - White wire 0.7 Ω ± 25 %  
Battery regulation voltage: 14.5 ± 0.5 V  
Battery (type and capacity):  
YUHASA YB4L-B or FIAMM 6ES-12 - 12V 4Ah  
Lighting voltage: Alternating current regulated at:  
13.1 ± 0.5 V

STARTER MOTOR

Power: 150 W / 160 W  
Make: MITSUBA / MORIC

LIGHTING AND FUSES

	Quantity	Power
Headlamp (low beam)	1	12V - 15W
Tail light and stop light	3	12V - 5W
Indicator lamps	4	12V - 10W
Number plate lightning	*	*
Dash board lighting	1	12V-2W
Instrument panel indicator lamps	2	12V-1.2W
Main fuse	1	7.5A
Signalling fuse	*	*
"Side light" bulbs	*	*



A	Instrument panel lightning	15	Battery	39	Thermo-switch cooling fan	BA:	White	VC:	Light green
B	Main beam control	16	Fuses	42	Switch "Reserve"	BA-BE:	White/blue	VE:	Green
C	Oil low level warning light	17	Horn	43	Speed sensor	BA-NR:	White/black	VE-NR:	Green/black
D	Direction indicator warning light/Hazard warning lights	18	Horn switch	44	Saddle lock	BC:	Light blue	VI:	Purple
E	Fuel gauge	19	Flasher unit	45	Diagnostic plug	BE:	Blue		
F	LED "Anti theft device"	20	Indicator relay	46	Air injector	GR:	Grey		
G	Temperature gauge	21	Blinking lights bulbs	47	Petrol injector	JN:	Yellow		
H	Warning light "reserve"	22	Fuel gauge	48	Throttle unit	JN-BA:	Yellow/white		
1)	Magneto flywheel	23	Stop light switch	50	Petrol pump	JN-BE:	Yellow/blue		
a)	Ignition	24	Starter motor relay	51	Oil pump	JN-NR:	Yellow/black		
b)	Sensor	25	Starter motor switch	52	Ignition and injection control unit	JN-VE:	Yellow/green		
c)	Alternating current	26	Electric starter motor	53	Idle valve	MC:	Light brown		
d)	Battery charge current	28	Mini oil level switch	54	Altimetric and air temperature sensor	MF:	Dark brown		
2)	Ignition switch	29	Temperature sensor	55	Blinking light relay	MR:	Brown		
4)	Ignition coil (high voltage)	30	Immobilizer	56	Blinking light relay	MR-BA:	Brown/white		
5)	Spark plug socket 5 kΩ	31	Transponder antenna	57	ABS/PBS relay	NR:	Black		
6)	Resistive spark plug 5 kΩ	32	"Side light" bulb	58	Fuel pump relay	OR:	Orange		
7)	Diode regulator	33	Number plate light	59	Hazard warning lights switch	RG:	Red		
10)	Lighting control	36	Neutral contactor	60	ABS/PBS	RG-BA:	Red/white		
12)	Dip switch (main/low headlight)	37	Oil pressure switch	61	Lighting relay	RG-JN:	Red/yellow		
13)	Headlight bulb	38	Cooling fan	62	Oil pump control unit	RG-NR:	Red/black		
14)	Stop/tail bulb					RS:	Pink		