

PREDATOR 500 SPECIFICATIONS / WIRING SCHEMATIC

MODEL: 2003 PREDATOR 500

MODEL NUMBER: . A03GJ50AA

ENGINE MODEL: .. ES50PLX

Catagory	Dimension
Length	71.5 in./182 cm
Width	47.5 in./121 cm
Height	45 in./114 cm
Seat Height	32 in./81.28 cm
Wheel Base	51 in./130 cm
Ground Clearance	4.5 in./11 cm
Dry Weight	415 lbs./188 kg
Fuel Capacity	3.25 gal./12.3 ltr
Oil Capacity	2.25 qts./2.1 ltr
Coolant Capacity	2.25 qts./2.1 ltr



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ENGINE MODEL: .. ES50PLE01

Engine	
Platform	Fuji DOHC 4 stroke
Engine Model Number	ES50PLE01
Engine Displacement	499cc
Number of Cylinders	1
Bore & Stroke (mm)	99.2 x 64.6 mm
Compression Ratio	10.8:1
Compression Pressure	130 psi
Engine Idle Speed	1600 Rpm
Cooling System	Liquid
Thermostat Opening Temperature	160°F (71°C)
Overheat Warning	High Temp Light
Lubrication	Pressurized Dry Sump
Oil Requirements	PS-4 Synthetic
Exhaust System	2 to 1 canister style
Carburetion	
Carburetor model	Mikuni BSR 42mm
Main Jet	150
Pilot jet	45
Jet Needle	6CGY07-060-3
Needle Jet	O-OM
Pilot Screw	2.5 Turns Out
Pilot Air Jet	110
Float Height	13-14 mm (0.51-0.55")
Fuel Delivery	Fuel Pump
Fuel Requirement	87 Octane (minimum)
Electrical	
Alternator Output	200 w @ 3000 RPM
Voltage Regulator	3-Phase PN 4010654
Lghts : Main Headlights	Dual Beam 35 watts / 35 watts
Tail	8.26 watts
Brake	26.9 watts
Neutral / Hot Indicator lights	1 watt (ea.)
Ignition System	DC/CDI Ignition
RPM Limit	9005
Ignition Timing	30° ± 3° BTDC @ 3500 RPM
Spark plug / Gap	NGK DCPR8E/ .035 in./ 0.9 mm
Battery / Model / Amp Hr	Maintenance-Free Yuasa YTX9 9 Amp Hr
Circuit Breakers	Fan 10 amp / Harness 20 amp
Starting	Electric - Standard
Instrument Cluster	N/A

Drivetrain	
Transmission Type	Manual 5 speed
Main Sprocket - # Tooth	14
Rear Sprocket - # Tooth	37
Axle Runout - Maximum	.020" (.51 mm)
Gear Ratio :	1st 2.615 2nd 1.765 3rd 1.350 4th 1.091 5th 0.958 Primary 2.792
Chain Size / Deflection	520 O-ring
Clutch Type	Wet Multi Plate
Clutch Lever Freeplay	1/8" - 3/16" / 3.1 - 4.7 mm
Steering / Suspension	
Front Suspension Style / Shock	Dual A-arm / Fox Shock
Front Travel	10 in. / 25.4 cm
Rear Suspension Style / Shock	Linkless Swing Arm / Fox Shock w/ remote reservoir
Rear Travel	11 in. / 27.94 cm
Ground Clearance	4.5 in. / 11.43 cm
Shock Preload Adjustment Front / Rear	Front - Spring tension - Std. Rear - Fox Dual Clicker - Std.
Turning Radius	67 in. / 170.18 cm
Toe Out	0 - 1/16 in / .0 - .159 cm
Wheels / Brakes	
Wheel Size - Front	21x7-10 Aluminum
Wheel Size - Rear	20x11-10 Aluminum
Front Tire Make / Model / Size	Maxxis Razr 21x7-10
Rear Tire Make / Model / Size	Maxxis Razr 20x11-10
Recommended Air Pressure F / R	5 psi Front 5 psi Rear
Brake - Front	Dual Hydraulic Disc
Brake - Rear	Single Hydraulic Disc

JETTING CHART

Altitude		AMBIENT TEMPERATURE	
		Below 40°F Below 5°C	+40°F to +80°F +5°C to +28°C
Meters (Feet)	0-1800 (0-6000)	155	150
	above 1800 (above 6000)	147.5	142.5

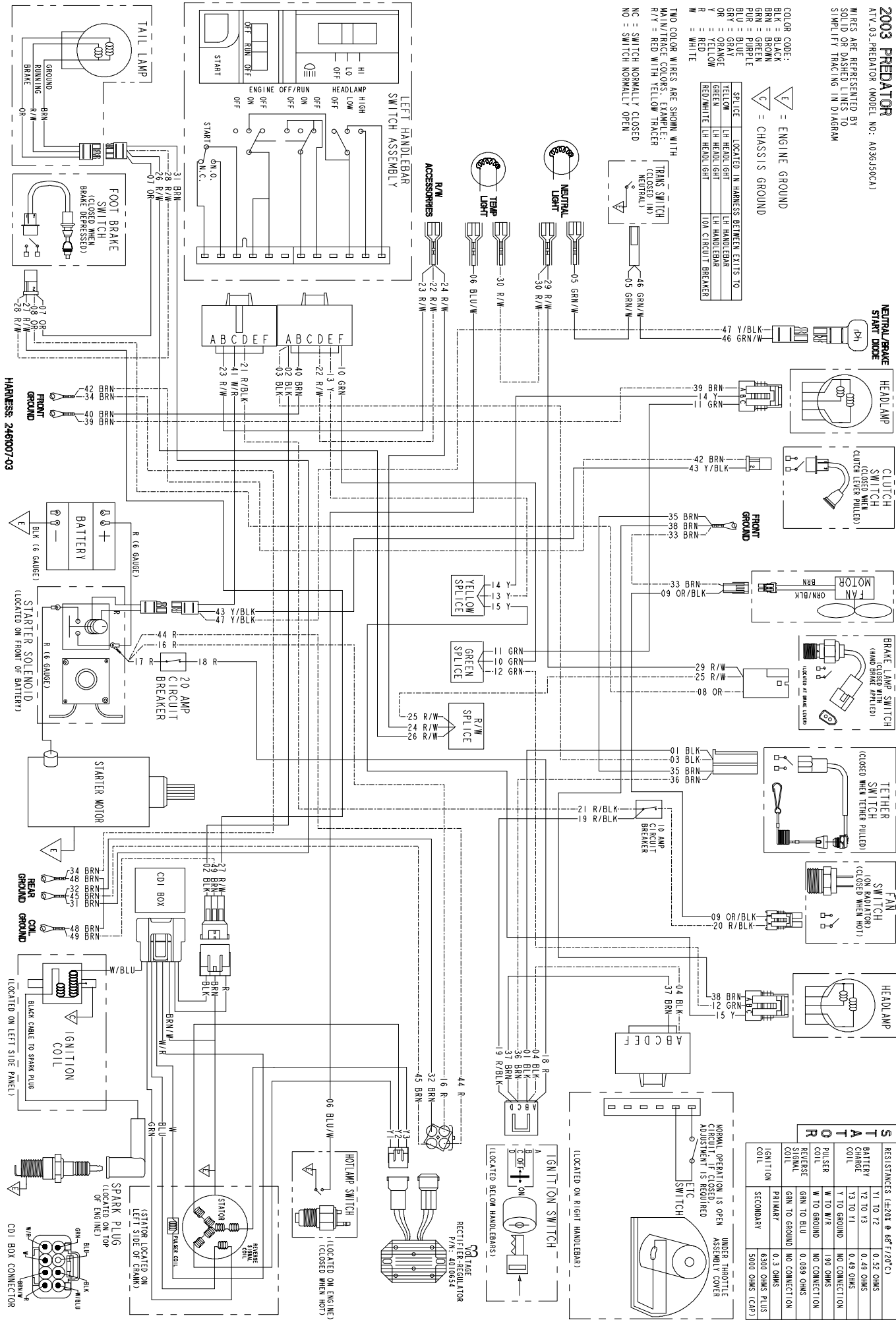
ATV-03-PREDATOR (MODEL NO: A03GJ50CA)

SIMPLIFY TRACING IN DIAGRAM

$\triangle \epsilon =$ ENGINE GROUND
 $\triangle c =$ CHASSIS GROUND

SPLICE	LOCATED IN HARNESS BETWEEN EXITS TO
YELLOW	LH HEADLIGHT
GREEN	LH HEADLIGHT
RED/WHITE	LH HEADLIGHT
	10A CIRCUIT BREAKER

NC = SWITCH NORMALLY CLOSED
NO = SWITCH NORMALLY OPEN



RESISTANCES (±20% @ 68°F/20°C)	
Y1 TO Y2	0-32 OHMS
Y2 TO Y3	0-48 OHMS
Y3 TO Y1	0-49 OHMS
Y1 TO GROUND	NO CONNECTION
W TO M/R	190 OHMS
W TO GROUND	NO CONNECTION
GRN TO BLU	0-689 OHMS
GRN TO GROUND	NO CONNECTION
PRIMARY	0-3 OHMS
5000 OHMS PLUS	
6300 OHMS (CAP)	