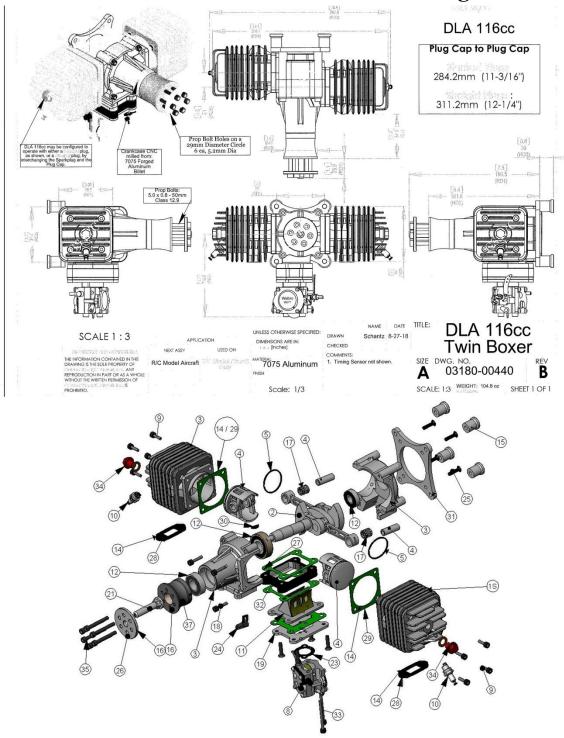
# GOLDEN SKIES R/C AIRCRAFT, Inc.

## Technical Notes: DLA 116 cc Gas Engine



Straight Spark-plug Configuration: Plug-Cap to Plug-Cap = 12-1/4" (~311 mm)

Slanted Spark-plug Configuration: Plug-Cap to Plug-Cap = 11-3/16" (~284 mm)

## GOLDEN SKIES R/C AIRCRAFT, Inc.

#### **Specifications:**

**DLA 116 cc** (7.08 in<sup>3</sup>) Gas Engine

Power: 11.8 HP @ 7,500 rpm Displacement: 116 cc (7.08 in<sup>3</sup>)

Idle Speed: ~ 1,600 rpm

Static Thrust: 59.9 pounds @ 100 m (~ 328 ft Altitude) (Pulling Force)

52.5 pounds @ 1800 m (~5,900 ft Altitude)

Propellers (Recommended): 26 x 10 / 12, 27 x 10, 28 x 8 /10

RPM Range: ~1,300 to ~7,400 rpm

Carburetor: Walbro<sup>™</sup>, (Typ: WJ-71), Diaphragm Pump

Spark Plug: CM-6 Special Iridium

Muffler Volume: 116 cc (7.08 in<sup>3</sup>)

Cylinder Diameter (Bore) Stroke: 46.0 mm / 35 mm (1.811 in / 1.38 in)

Compression Ratio: 7.8:1

Gas 89 – 92 Octane, unleaded ("Regular")

Gas: Oil Ratios: 30 – 40:1 Break-in Trial Run; 40 – 50:1 Normal Flying Weights: Engine: 91.7 oz, Muffler (2): 8.11 oz, Ignition: 6.35 oz

(Total: 106.1 oz = 6.63 lbs)

Ignition: Fully Advancing, Auto, Capacitive Discharge Ignition

Ignition Power: 6.6 to 8.4 VDC, 2S – LiPO Unregulated

#### **Support Information:**

Ignition Battery: 2-S, LiPo, (2,100 - 2,700 mAh Typical), un-regulated.

26 x 10 Sail

6-S, NiMH, (2,100 mAh Typical), un-regulated

Break-in Propeller (Suggested)

Intake Manifold:

4-Leaf Reed Valve, V-Configuration

Items Included in Retail Pkg: Engine, Muffler (2) / Gasket & Bolts, CD Ignition, Sparkplug (2), Stand-off Mounts (Machined), Operations Manual (on Website),

Bolts-Mounting, Spiral-Nylon Wire Sleeve

	Mount Dimensions		Mounting	Stand-Offs	Drop Rolts	Muffler Bolts
	X (mm)	Y (mm)	Bolts	Stariu-Oils	Prop Bolts	Mullier Boils
DLA 116	70	80	5.0 x 0.8 - 55 mm	15.3 OD x 20 L mm	5.0 x 0.8 - 50 mm	5.8 x 0.8 - 16 mm

**Suggested Items:** <u>Gas Tank</u> Pilot's Choice

 Fuel Point™
 (From Golden Skies R/C)

 Gas Line
 (From Golden Skies R/C)

<u>Ignition Kill Switch</u> Pilot's Choice

<u>Propeller</u> (Sail, From Golden Skies R/C)

2-Cycle Oil Pilot's Choice)

Gas Line Filter

Mounting Template (From Golden Skies R/C)
Propeller Drill-bit Guide (From Golden Skies R/C)

Spinner (From Golden Skies R/C)
Battery, Ignition (From Golden Skies R/C)
Tachometer (From Golden Skies R/C)