

Europa Aircraft Kit Maintenance Items

The following items are replacement parts for the typical
Stock Europa Kit Aircraft

Owners may have made construction changes or engine/system choices that make this list inaccurate. It is highly recommended that builders should include in their weight and balance equipment lists and essential spares for their aircraft.

Typical spares include fuel, air, and oil filters.

Fuel Filters:

Auto Zone

Spectre/Clear view fuel filter element Part Number: 2358 Alternate Part Number: 896G

Advance Auto Parts: **Mr. Gasket Replacement Element for Clearview Fuel Filter Part No. 896G**



Fuel Filter Assembly if you break one:



Mr. Gasket P/N 9747 \$18

Oil Filter:

Lockwood Aviation:

Rotax Oil filter, Replaces 825 706, 3.4mm longer. Part Number 825 012



Oil:

Aeroshell Sport plus 4 - semi synthetic for use with AV gas.

Mobil One MXT4 (ATV Oil) also known as Racing 4T-full synthetic for use with Auto gas.

Coolant:

Dexcool 50/50 for normal operations.

EVANS NPG + COOLANT FOR ROTAX ENGINES 08-04535 Aircraft Spruce Part # 08-04535 for boil over problems.

Spark Plugs:

Plug Type, Socket Electrode Gap

912 A/F/UL : NGK DCPR7E 16mm 0.7-0.8mm/.028-.032"

912 S/ULS/ULSFR: NGK DCPR8E 16mm 0.7-0.8mm/.028-.032"

914 F/UL: NipponDenso X27EPR-U9 12mm 0.6-0.7mm/.024-.028"

Air Filters:

912/912S Air Filter is a lifetime K&N Filter Number 33-2564

914 Air Filter is a lifetime K&N Filter either a straight RU 0800

Or a 20 degree angled filter for cowl clearance RU1750

Door Struts:

Euorpa: GS8699-1 £47.76, GS86991 PLASTIC ENDS or metal GS86991

Or Custom Flight Supplied Alternate Strut

CFC Part LST C13-6-110-300-175N for about \$45 US. Metal ends.

Gas Cap:

SPRL (cap only) from Aircraft Spruce Older 70mm caps no longer available. Contact CFC for possible spares still available from our special order.

Hoses:

Recommended Fuel Hose: 5/16" or 1/4" for return of R14 or similar odor resistant silicone lined hose.

Recommended Coolant Hoses: Are either Rotax Rubber hoses or I now use Silicone:

5/8" Silicone hose from Amazon Hose such as:

HPS 4-Ply 5/8" (16mm) 1 Foot Long Blue Silicone Hose

5/8" ID x 1 Foot Length. Max Temperature Rating: 350F. HPS High Temp 4-ply Reinforced Blue

Silicone Tube Coupler Hose meet or exceed SAEJ20 standard

Fits 17 mm Rotax fittings fine and can use the existing clamps.

1" shaped hoses are bought directly from Europa. CO5, CO6 are XS part numbers.

Classic can be ordered but expect delays.

Another excellent high quality complete silicone hose set (engine and to the coolers) with clamps, can be purchased from: Stefan Ingemarsson. He is a hose manufacturer in Sweden and a Europa owner.

Contact: Stefan.ingemarsson@gmail.com

These are now silicone and need silicone hose clamps with a smooth interior.



HPS Stainless Steel Worm Gear Liner Hose Clamp
13/16" - 1-1/2" (21mm-38mm) SAE 16 (Box of 10)
Part Number: SSWC-21-38x10 **\$15.80**

Recommended Oil Lines:

½ " Parker Push-Lok® 836 multipurpose hose delivers high temperature performance, up to 302°F, and higher working pressures than 821 hose. Approved with crimp or push on fittings and with a distinctive blue cover indicating a high temperature rating.

½ " Aeroquip AQP FC332 Push on hose is similar.

New engines come with 13mm hose which is a pain to work with. If you have 13 mm fittings the above hoses must be heated to go onto the fittings.

Heat shield:

For lower engine coolant and oil lines use: Thermo-Tec Thermo-Sleeve 14015 for 1 to 1.5 inch hoses 14011 for 5/8 to 3/4 "

For fire protection of fuel lines and or oil lines:
Fire Sleeve: Aeroquip 12 or 10 sized PN FBS2200

Landing Gear:

Wheels: Trigear Mains: Matco W51L Trigear Nose: NW 501.25 Mono: Europa Part Only

Disks: Matco 5 inch external type. Mono Europa Part Only

Tires Typical: Trigear Main, Air Hawk 5x5; Trigear Nose Lamb (Cheng-Shin) 11.00-4x5;

Mono McCreary Air Hawk 7x6

Six ply recommended for all.

Tubes: Michelin or Aero Classic with 90 degree valve

Brakes Linings:

Trigear: MATCO BRAKE RELINE KIT BRL-1 06-00571 Part # 06-00571 Aircraft Spruce typical.



Mono: Cleveland Standard



Lube Grease:

Aeroshell for Airmaster Prop, and wheel bearings.

Brake Fluid:

Dot 5 silicon as it doesn't stain or

Mil Spec 5606 as recommended by Matco for all their brakes. Stains red if it leaks.

No other types authorized by the kit or brake manufacturer without approval of each.

Rotax Engine alternative hose list:

Engine coolant hoses are normally 17mm or 11/16

Silicone hose would be best as Rotax hoses are quite expensive at over \$10 per foot.

Hose clamps by HPS are typical.

Clamps Recommended:

HPS Stainless Steel Worm Gear Hose Clamp 1/2" - 29/32" (13mm-23mm) SAE 8 (Box of 10)

Part Number: SSWC-13-23x10 **\$13.30**



Heater Hoses recommended for the Rotax:

We use Amazon Hose in Tampa, which sells a blue/red hose similar to below in 5/8 inch or 16 mm, but it works over 17 mm nipples and the cost is about \$6 per foot or:

HPS High Temp 5/8" ID (16mm) Reinforced Silicone Heater Hose Black - 10 Feet Roll.

Part Number: HTHH-062-BLKx10 **\$60.70**

However, order Stefan Ingemarssons hoses. Everything fits perfectly.