RICHARD GOODE AEROBATICS

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WORLD LEADERS IN RUSSIAN SPORTING AIRCRAFT & ENGINES

In partnership with Aerometal Kft, Hungary

Price List 2021

- Typically, all overhauled components, where appropriate, will receive a Certificate of Release to Service.
- "Core exchange" prices are those we offer for an old component/ancillary that is worn, but complete and not damaged.
- Core exchange parts MUST be sent to Aerometal at the following address: Marcell Marczy, Aerometal Kft., Ipari Park HRSZ:3508/19, Asboth Oszkar utca 4., 2038 Soskut, Hungary, Tel. +36706763869.
 Please DO NOT send them to us at Rhodds Farm.
- Prices in Euros unless otherwise stated, but we have an easy and cheap way for you to pay in your currency and we get paid in Euros.
- With every component/ancillary that requires gaskets or extra fitting parts for installation, these are always included

Electrical: M14P/PF & AI14

Part	Price	Core Exchange
M9F & M-9 magneto. Totally overhauled with new bearing, new AYC coil, new		
points, new "pencil" and new rotor. We are the only people in the World able		
to supply ALL NEW parts when we overhaul a magneto. We believe these		
magnetos are better than the original Russian production.		
As is general practise, the magneto cap into which the leads are inserted is		
part of the ignition harness, so is not included with a new magneto. However,		
a new cap can be added for an additional €135.	€1,680.00	€330.00
M9 – 35M magneto. Totally overhauled, as the M9F magneto (above), plus the		
additional overhaul of the complex counterweight mechanism	€1,280.00	€230.00
Points. Finally, we are making our own points. Very high quality and machine-		
tested for over 2,000 hours!!	€220.00	
Coils (for M9 magnetos). We have made a significant investment to design		
and produce dramatically improved coils, and, critically, with an external		
capacitor which gets over the historic problems of capacitor failure through		
heat and age. Importantly these coils are now fully certified		
by UK CAA and EASA, who control all aviation in Europe. They are		
unconditionally guaranteed for five years, but we conservatively expect them		
to last at least 20 years. Additionally, as part of the testing programme, it has		

been demonstrated that the spark is 20% stronger than with a standard coil,		
leading to easier starting; less plug-fouling and smoother running.	€430.00	
Coils for M7 magnetos (as in Ash-21 engine). These are more difficult to		
manufacture; few cores available, but technically identical to M9 coils	€490.00	
Magneto "pencil"	€80.00	
Magneto rotors. New manufacture, using improved materials and extensively		
tested	€115.00	
Magneto cap. New manufacture, using improved materials and extensively		
tested	€135.00	
Isolator	€65.00	
Automotive plug conversion kit. Our new kit with the "Thundervolt" very low		
resistance leads, improving performance and limiting radio interference. Also		
includes the much improved modifications from Aerometal. Totally complete		
with everything needed, including latest NGK spark plugs. Approved by EASA;		
UK CAA and French DGAC	€595.00	
Electric start conversion. Cost when fitted to an engine during overhaul.	€3,300.00	
Electronic ignition. Net cost if fitted to an engine undergoing overhaul.	US\$9200.00	
Tacho-generator	€540.00	€130.00
Overhaul cost	Price	Core
	11100	Exchange
M9F & M-9 magneto. Totally overhauled with new bearing, new AYC coil, new		
points, new "pencil", new rotor and new magneto cap. We are the only people		
in the World able to supply ALL NEW parts when we overhaul a magneto. We		
believe these magnetos are better than the original Russian production.	€1,350.00	€330.00
M9-35M magneto. As the M9F magneto (above), plus overhauling the		
complex counterweight mechanism	€1,050.00	
Magneto check. Physical check, individual test of components and then 2 hour	0000	
test in high-temperature test cell; new paperwork.	€290.00	
Tacho-generator	€410.00	

Fuel System: M14P/PF & Al14

Part	Price	Core Exchange
Carburettor AK14P & K-14A. Zero-timed and to include 2 additional suction jets, one either side of size fitted. We do not include the composite gasket for		
installation of the carburettor, since these are almost always reusable.	€1,135.00	€350.00
Carburettor membranes (2) for M 14 and Al 14 engines	€195.00	
Suction jets, each. Sizes 0.8mm to 1.9mm.	€17.00	
Acceleration jets, each. Sizes 0.6mm to 0.9mm	€17.00	
Fuel pump 702ML (for M14) & 702M (for Al14). Zero-timed.	€490.00	€95.00
Fuel pump membrane.	€70.00	
Overhaul cost	Price	Core Exchange
Carburettor AK14P & K-14A . Including new membranes; mechanical overhaul; new paint and to 2 additional suction jets, one either side of size fitted. We do not include the composite gasket for installation of the carburettor, since		
these are almost always reusable.	€785.00	

Overhaul cost	Price	Core Exchange
Carburettor check. To check an unused carburettor, including new membranes		
and test bench session.	€390.00	
Fuel pump 702ML & 702M. Please see below for price for internal blades	€395.00	
Fuel pump internal blades (4). Replaced during overhaul if originals not		
useable	€100.00	
Fuel pump check. To check an unused fuel pump, so total disassembly; check;		
new membrane and formal test on test-bench	€180.00	

Cylinders: M14P/PF& AI14

Part	Price	Core
Cylinders. After total overhaul, including resurfacing cylinder walls; new or		Exchange
overhauled valves; new valve guides; x-rayed valve springs; all overhauled		
valve gear	€1,195.00	
Cylinders. Complete, used with valves, valve gear, etc. In good condition, but	02,200.00	
needing overhaul	€300.00	
Loose exhaust insert. Copper plated, machined, refitted exhaust insert into		
cylinder	€185.00	
Set of gaskets for reinstalling all 9 cylinders	€345.00	
New exhaust valves	€210.00	€30.00
Overhauled exhaust valves. Hard chromed stem to new dimensions & new		
"seat".	€165.00	€35.00
Overhauled inlet valves. Good condition and to correct dimensions	€110.00	€20.00
New valve guide	€115.00	
Valve covers, newly painted	€40.00	
Valve cover gasket	€7.50	
Valve cover wire	€12.00	
Set of 5 new Russian piston rings	€160.00	
M14P R1 Russian pistons. Set, complete with rings, pins and plugs. Limited		
availability.	€3,180.00	
SPC pistons. Set, complete with rings, pins and plugs.	€2,980.00	
Barrett Pistons. Set, complete with rings, pins and plugs.	€3,590.00	
Exhaust nuts each	€45.00	
Exhaust Olive (gasket), standard size, 10mm thick	€28.00	
Exhaust Olive, special size, any thickness	€38.00	
Intake tube gasket at supercharger end. This is a rubber ring.	€4.00	
Intake tube gaskets at cylinder end. Three composite gaskets needed per tube,		
at €2 each, so €6	€6.00	
Set of exhaust clamps (7)	€795.00	
Exhaust stub. About 8cms	€20.00	
Connecting rod. Used, but fully checked and crack tested.	€245.00	
Connecting rod bushings. Two needed @ €65 each	€130.00	
Air start valves, totally overhauled	€95.00	
Air start pipe (from distributor to air start valve). Fully checked and nickel		
plated	€40.00	

Overhaul cost	Price	Core Exchange
New baffle "pads", including rivets to attach to baffles (17 in total per engine).		
Price each	€30.00	
Cylinders, price per cylinder. including resurfacing cylinder walls; new or overhauled valves; new valve guides; x-rayed valve springs; all overhauled		
valve gear.	€895.00	
Honing (per cylinder)	€155.00	
Exhaust valves. Hard chromed stem to new dimensions & new "seat"	€130.00	

Ancillaries: M14P/PF & AI14

Part	Price	Core Exchange
Compressor AK-50A & AK-50P12, zero-timed. <i>Including new pistons and</i>		
cylinders if not to new tolerances.	€1,400.00	€190.00
Compressor drive coupling	€80.00	€40.00
Compressor air filter & retaining clip	€9.00	
Air compressor gasket	€7.00	
Propeller governor. R2	€615.00	€165.00
Oil cooler. Standard Yak and Sukhoi.	€1,050.00	€400.00
Large oil cooler. 50% more cooling capacity. Same fittings as standard. Used but fully overhauled.	€950.00	
Oil pump MM-14A. Zero-timed.	€490.00	€95.00
Airstart distributor	€460.00	€85.00
Generator GSR-3000 & GSK-1500M	€815.00	€145.00
Overhaul cost	Price	Core Exchange
Generator GSR-3000 & GSK-1500M	€670.00	
Compressor AK-50A and AK-50P12. Total overhaul to new condition, but not including new cylinder or new piston if these are needed.		
Additional costs are new cylinder Euro 430 and new piston Euro 330, if needed.	€930.00	
Compressor drive coupling	€40.00	
Propeller governor. R2	€450.00	
Oil cooler. Standard Yak and Sukhoi.	€650.00	
Oil pump	€395.00	
Airstart distributor	€375.00	
Air bottle pressure testing. Including x-ray and crack test; boroscope inspection; electronic measurement of precise wall thickness (results given); pressure test to 100 bar; recertification and Certificate of Release to Service.	€395.00	

Gearbox & Pyramid: M14P/PF & Al14

Part	Price	Core Exchange
New propeller shaft/flange. Russian or SAE. Core exchange price only if corrosion does not prevent overhaul.	€900.00	€250.00
Overhauled propeller shaft/flange. Russian or SAE. Core exchange price only if corrosion does not prevent overhaul.	€600.00	€250.00

Part	Price	Core Exchange
Uprated MT governor springs (2). For better aerobatic performance	€30.00	
Gearbox oil seal rings	€76.00	
Gearbox satellite gear, each	€146.00	
Micro-polishing gears in drive gearbox and ancillary/supercharger gearbox	€600.00	
Propeller adapter. Russian engine to SAE prop	€650.00	
Reverse adapter. SAE engine to Russian prop	€650.00	
Gearbox, after total overhaul	€3,500.00	€1,850.00
Overhaul cost	Price	Core Exchange
Gearbox painting and new data plate	€295.00	
Gearbox: Full shock load test and inspection after ground-strike	€925.00	
Gearbox total overhaul	€1,650.00	
Full ground-strike test and inspection, for both gearbox and "pyramid" – supercharger and all accessory drives	€1,960.00	
Ground-strike: dismantling, inspection, disassembly of gearbox, pyramid, crankcase, cylinders and 3 hour dynonometer test run. But excluding any repair	€5,800.00	
Ground-strike: total disassembly, total inspection and x-ray, reface valves, inspect and test all ancillaries, 3 hour test run. But excluding any repair	€9,700.00	
Prop shaft/flange overhaul	€450.00	
Pyramid overhaul: overhaul of complete "pyramid"; supercharger; accessory case; accessory gearbox	€2,950.00	€1,100.00 €1,100.00
Pyramid total overhaul and conversion to PF specification. Additional cost of converting engine to "PF" specification during overhaul	€6,850.00 €3,500.00	C1,100.00

Airframe Parts

Part	Price	Core Exchange
Wing tip sights for Sukhoi	€215.00	
Yak 18T aileron bracket	€290.00	
Yak 18T door pins	€205.00	
Overhaul cost	Price	Core Exchange
Yak 50/52/18T undercarriage actuator overhaul. Please note there will be extra charges if we need to replace major items such as end cap; pistons; etc. But we will dismantle the old unit and provide a detailed quote with no	€480.00	
obligation.		
Yak undercarriage cockpit selector overhaul	€250.00	

General

Part	Price	Core Exchange
Flexible hoses. Our established price for all hoses to include crack test & x-ray		
of metal ends; machining to fit Aeroquip 303 hose; anodizing; assembly;		
pressure test; fireproof cover; EASA form 1. There are often two flexible hoses		
in a complete set which are permanent factory installed "pressurised" hose		
ends which we cannot replace. So we need to purchase complete new hoses		
from a specialised factory – cost of these is an additional €190.	€95.00/hose	
Engine lifting eye	€195.00	
Tools. Complete set of 11 necessary tools for all work on M14 engines.	€525.00	
Intake tubes, after OH	€65.00	€15.00
Intake tube gaskets (price for a pair)	€7.00	
Big manifold oil drain plugs, for fitting oil drain system	€42.00	
Engine mount rubbers. (16 for engine set). Each	€24.00	
Engine mounting bolt complete with stud, 2 nuts & 3 washers	€33.00	
Pushrod tube hoses, set of 18 @ €4 each	€72.00	
Pushrod tube clamps, set of 36 @ €7 each. Expensive, but we have them made		
especially and these are the only ones that are properly oil tight	€252.00	
M 14 P engine, after total zero-time overhaul. Please contact us for full		
details.	€34,000.00	
M 14 PF engine, after total zero-time overhaul. Please contact us for full		
details.	€37,500.00	
Zero-timed V-530 propeller	€7,600.00	
Shipping box for V-530 propeller	€300.00	
Engine shipping crate. Made of treated wood, so acceptable for all		
international shipping. Includes all internal tubular metal engine supports	€520.00	
Poster books. Reprint of the 21 Russian M14 technical posters, double A4 size,		
full colour, printed on heavy art card. English translation. Price includes		
packing and shipping.	€50.00	
Overhaul cost	Price	Core Exchange
Engine overhaul to zero-time condition. Please contact us for full details.	€29,000.00	
Overhaul of V-530 propeller	€4,750.00	
Remove and check cylinders	€1,650.00	
Engine dynonometer test. Full three hour test run on the dynonometer, with	==,000.30	
all results given to the customer	€1,500.00	
Preservation, long term	€560.00	
Preservation, short term	€260.00	
Chip detector cable sensor	€105.00	