



## O.S. Surpass II-P

O.S. has now added the suffix "P" to its latest .91 Surpass II 4-stroke. As before, the Surpass II designation means you get good power and reliable idling and throttling characteristics. The "P" means you also get a pressure-regulated carburetor and pump fuel-delivery system. But there's more: this engine joins the .52 Surpass and 1.20 Surpass III in having O.S.'s corrosion-resistant plating technology. This feature is relatively new and is very noteworthy, considering the 4-stroke market. Combating low-end corrosion is, in fact, a major concern when performing proper maintenance on any 4-stroke engine—much more so than with a 2-stroke. Unlike 2-strokes, 4-strokes don't breathe through the crankcase. Lubrication is passed down to a 4-stroke's crankcase via a blowby channel (or channels) that open at bottom dead center. Of course, unburned nitro and methanol get blown down into the crankcase as well—and there's the problem. Though lower-quality nitro has been known to cause corrosive acidic solutions to form on low-end components, it's the methanol that is the serious corrosion culprit. Alcohol is *hygroscopic* (it absorbs moisture), and this moisture invades the crankcase and promotes premature, damaging corrosion. O.S. has applied what it calls "corrosion-resistant" plating to all low-end, ferrous components—those being the crankshaft, camshaft and main bearings, which are both of the sealed type. O.S. also went ahead and treated the piston ring, too; it isn't as susceptible to corrosion as the lower-end parts, but what the heck—why not? Notice that O.S. calls this plating "corrosion-resistant," not "corrosion-proof," so after-run oil is still required, especially in humid weather and when the engine will be unused for a long time. I'm sure this plating will eventually show up on all O.S. 4-strokes, if it hasn't by the time you read this. Assuming that the plating lives up to factory claims (and I have no reason to doubt that it won't, considering O.S.'s excellent reputation), I commend the company for this move. Four-stroke engines are more expensive than 2-strokes and are regarded by most modelers as long-term purchases, I'm sure.

### FUEL SYSTEM

New on a .91-size 4-stroke for O.S. is the fuel-pump/regulator-carburetor combination. This system not only makes fuel-tank location non-critical, but it also has a positive effect on engine performance. A diaphragm-type fuel pump, mounted off the backplate, is operated by crankcase-pressure fluctuations. The pump's pressure line is tapped into the engine's backplate, directly behind the pump housing. The pump moves fuel from the fuel tank into the pressure-regulator chamber that is an integral part of the Surpass II's specialized carburetor body. The regulator's function is to feed constant, precise positive pressure to the spray-bar.



*The breather tap is located in the cam housing. Negative pressure helps much-needed lubrication migrate to the camshaft drive gears. It also helps keep the inside of the bowl a bit cleaner.*

Other than the pressure regulator, the carb is a standard two-needle type that is also reversible for either a left- or a right-hand throttle-linkage hookup.

### BREAK-IN AND PERFORMANCE

For break-in, I ran the engine with an APC 13x5 prop and three 12-ounce tanks of Wildcat's 15-percent nitro Premium Xtra fuel with 18-percent synthetic/castor (80/20) lubricant blend. Take note! With the pumped version of this engine, the instructions are very specific about initial run time. You're told to run the engine in the beginning with the carb barrel opened no more than  $\frac{1}{4}$  for 2 to 3 minutes to ensure that the pump's functioning has come up to full potential before you go to



fully open venturi. I have to be honest; I'm not sure, but I think that the only reason this is necessary is to work the pump's diaphragm to full flexibility, thereby giving full pumping volume. It doesn't really matter if I'm right or if I'm wrong, though; what does matter is to follow the instructions.

To my amazement, after only 1½ tanks of fuel, the engine's ring and sleeve had attained an excellent fit, and the .91 was already holding compression as though it was well broken in. I mean, what are we talking here? Eighteen to 20 ounces of fuel through a brand-new engine? Now that's a testament to O.S.'s level of machining fit and finish expertise. Fantastic compression seal notwithstanding, I ran the remaining tank and a half of break-in fuel through. This engine is a beauty; break-in is a one-time deal—so just do it.

As you can see from the rpm in the performance chart, this 4-stroke packs a punch. The 13x10, 14x8 and 15x6 all turn up in the 9,000rpm neighborhood (nice neighborhood!), and each of these props would work well on the .91, depending on the drag of the airframe you mount it in. I used all APC props except in the 13x10 and 14x8 sizes; I also ran Master Airscrew's Scimitar prop. These props seemed to work well and needed only minor balancing, just

# Os 91 Surpass Ii Manual

**Hagop M. Kantarjian, Robert A. Wolff**



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web a193 gr b8m class 1 is a carbide solution treated 316 stainless steel bolting material with minimum tensile strength requirement of 75 ksi 515 mpa yield 30 ksi 205 mpa and maximum hardness of 223 hbw 96 hrb a193 gr b8m class 2 has a minimum tensile requirement of 125 ksi 860 mpa yield of 100 ksi 690 mpa and maximum hardness of

**astm a193 grade b8m class 2 specification boltport** - Mar 01 2023

web introduction chemical composition mechanical properties recommended nuts washers fasteners astm a193 grade b8m class 2 specification for high tensile bolts screws stud bolts anchor bolts threaded rods and other externally threaded fasteners made from 316 stainless steel

**astm a193 grade b8 bolts screws studs stud bolts torqbolt** - Jun 23 2022

web additional information torqbolt is a well known stockist of pitch dia astm a193 grade b8 round bars from ¼ 4 6mm 100mm in 1 meter 3 meter 6 meter lengths all threaded bars are magnetic particle examined in accordance with astm e 709 with indications cracks within 3 of the diameter as specified in astm a193 specification

**torque tension relationship for astm a193 b7 bolts and studs fastenal** - Oct 28 2022

web the torque values can only be achieved if nut or tapped hole has a proof load greater than or equal to the bolt s minimum ultimate tensile strength clamp load calculated as 75 of the yield strength for the b7 specified in astm a193 torque values calculated from

**astm a193 grade b8m bolts screws studs stud bolts** - Apr 21 2022

web questions answers astm a193 grade b8m bolts are manufactured from 316 stainless steel in accordance with astm a193 specification torqbolt is a prominent a193 gr b8m bolt supplier in india type 316 stainless steel austenitic steel carbide solution treated finish pickling and passivation

**astm a193 gr b8ma bolts screws studs stud bolts torqbolt** - Jul 25 2022

web a193 b8ma class 1a bolting a193 gr b8ma cl 1a square bolts astm a193 gr b8ma class 1a socket head cap screws astm a193 gr b8ma class 1a bolts a193 b8ma class 1a hex bolts asme sa 193 gr b8ma class 1a cap screws asme sa 193 b8ma class 1a heavy hex screws sa193 gr b8ma cl 1a square bolts astm a193 grade b8ma class

**flanges bolting torque tables table 1 astm a193 and** - Sep 07 2023

web bolting torque table 1a cold service astm a193 and astm a320 grade b8 cl2 stud bolts bolting torque table 2 astm 193 grade b7 and astm 193 grade b16 stud bolts bolting torque table 2a cold service astm a320 grade l7 stud bolts bolting torque table 3 use only with a193 b8 cl1 bolts at 540 c 650 c on uninsulated flanges bolting

standard specification for alloy steel and stainless steel bolting - Jul 05 2023

web alloy steel and stainless steel bolting for high temperature or high pressure service and other special purpose applications<sup>1</sup> last previous edition approved in 2019 as a193 a193m 19 doi 10 1520 a0193 a0193m 20 2 for asme boiler and pressure vessel code applications see related specifi

**flanges bolting torque tables table 3 use only with a193** - Dec 30 2022

web the above table is applicable only for astm a193 grade b8 class 1 stud bolts for use in temperatures above 1000 f 540 c and up to and including 1200 f 650 c installed on uninsulated flanges the values are based on yield strength at ambient temperature

**astm a193 grade b8m specification boltport fasteners** - Jun 04 2023

web astm a193 grade b8m specification for high tensile bolts screws stud bolts anchor bolts threaded rods round bars and other externally threaded fasteners made from 316 stainless steel this specification covers requirements for chemical composition mechanical properties heat treatment hardness recommended nuts washers and markings for

**astm a193 grade b8m class 1 specification boltport** - Apr 02 2023

web introduction chemical composition mechanical properties recommended nuts washers fasteners astm a193 grade b8m class 1 specification for high tensile bolts screws stud bolts anchor bolts threaded rods and other externally threaded fasteners made from 316 stainless steel

astm a193 grade b8m bolts stud bolts fasteners boltport - Aug 06 2023

web astm a193 grade b8m is a material specification for high tensile stainless steel bolts stud bolts screws threaded rods and similar fasteners for high temperature applications astm a193 b8m is manufactured from chromium nickel stainless steel alloy 316 or uns equivalent s31600 under class 1 and 2 with minimum tensile of 75 and 100 ksi

**astm a193 b8m bolts sa 193 gr b8m class 2 studs cl 1 nut** - Feb 17 2022

web astm a193 b8m ss a2 70 a4 80 3 8 stud bolts chile iran italy singapore astm a193 b8m stainless steel bolts united arab emirates uae norway turkey malaysia astm a193 b8m hex bolts netherlands russia malaysia dubai astm a193 b8m stud bolts egypt mexico spain uk a193 b8m stud bolts and nut m4 m64 united kingdom

astm a193 specification boltport fasteners - Jan 31 2023

web astm a193 specification for high tensile alloy and stainless steel bolts including most popular grade b5 b6 b7 b7m b8 b8m b8t b16 etc astm a193 specification covers high tensile alloy and stainless steel fasteners for pressure vessels valves flanges and fittings for high temperature or high pressure service or other special purpose

stud bolts bolting torque tables table 1 astm a193 and - Sep 26 2022

web bolting torque table 1 astm a193 and astm a320 grade b8 cl2 stud bolts bolting torque table 1a cold service astm a193 and astm a320 grade b8 cl2 stud bolts bolting torque table 2 astm 193 grade b7 and astm 193 grade b16 stud bolts bolting



torque table 2a cold

**astm a193 a193m b8 and b8m class 1 torque tension guide fastenal** - Oct 08 2023

web astm a193 a193m b8 and b8m class 1 torque tension guide caution stainless steel fasteners tend to gall especially with long run downs prevailing torque fasteners impact drivers and lack of lubrication

astm a193 portland bolt - May 03 2023

web this specification includes fasteners intended for use in pressure vessels valves flanges and fittings although this material is often available in national coarse unc thread pitches if being used in traditional applications threads are specified 8 threads per inch tpi for diameters above one inch

*astm a193 bolts dimensions specifications grades and torque* - May 23 2022

web torque is the twisting force measuring any tension in the threaded hex bolts the sa193 hex bolt is generally torqued using an allen key hex wrench or hex key sa193m carriage bolt a193 eye bolts and machine bolts available in 1 2 inch to 52 inch length does the length of an astm a193m heavy hex bolt include the head