

**Section 01 TECHNICAL SPECIFICATIONS**  
Subsection 01 (SPYDER RT (SM5/SE5))

# SPYDER RT (SM5/SE5)

| MODEL                 |                                      |  | SPYDER RT   |                            |
|-----------------------|--------------------------------------|--|---|----------------------------|
|                       |                                      |  | SM5   | SE5                        |
| <b>ENGINE</b>         |                                      |  |   |                            |
| Engine type           |                                      |  | ROTAX® 991, 4-stroke, 60° V-twin, Dual Over Head Camshaft (DOHC), liquid cooled |                            |
| Number of cylinders   |                                      |  | 2   |                            |
| Number of valves      |                                      |  | 8   |                            |
| Bore                  |                                      |  | 97 mm (3.82 in)   |                            |
| Stroke                |                                      |  | 68 mm (2.68 in)   |                            |
| Displacement          |                                      |  | 998 cm <sup>3</sup> (60.9 in <sup>3</sup> )                                     |                            |
| Compression ratio     |                                      |  | 12.2:1  |                            |
| Lubrication           | Type                                 |  | Dry sump with separate oil reservoir and oil cooler                             |                            |
|                       | Oil filter (engine and transmission) |  | BRP Rotax paper type, replaceable   |                            |
|                       | Engine oil pressure                  | Minimum  | 350 kPa (51 PSI) @ 5000 RPM / 80°C (176°F) oil temperature                      |                            |
|                       | Engine oil                           | Capacity (oil change with engine filter)   | 3.9 L (4.1 qt (U.S. liq.))  | 4.2 L (4.4 qt (U.S. liq.)) |
|                       |                                      | Capacity (oil change with engine and HCM filters)  | N.A.  | 4.3 L (4.5 qt (U.S. liq.)) |
| Recommended           |                                      | XPS synthetic blend oil (summer grade) (P/N 293 600 121) or a 5W 40 semi-synthetic (minimum) or synthetic motorcycle oil meeting the requirements for API service SL, SJ, SH or SG classification. |   |                            |
| Exhaust system        |                                      |  | 2 into 1 with catalytic converter   |                            |
| Air filter            |                                      |  | Paper element   |                            |
| Intake valve opening  |                                      |  | 20° BTDC @ 1 mm (.04 in)  |                            |
| Intake valve closing  |                                      |  | 40° ABDC @ 1 mm (.04 in)  |                            |
| Exhaust valve opening |                                      |  | 45° BBDC @ 1 mm (.04 in)  |                            |
| Exhaust valve closing |                                      |  | 5° ATDC @ 1 mm (.04 in)   |                            |
| Valve clearance       | Intake                               |  | 0.11 mm to 0.18 mm (.0043 in to .0071 in)                                       |                            |
|                       | Exhaust                              |  | 0.22 mm to 0.29 mm (.0087 in to .0114 in)                                       |                            |
| Valve stem diameter   | Intake                               | New  | 5.961 mm to 5.975 mm (.2347 in to .2352 in)                                     |                            |
|                       |                                      | Service limit  | 5.950 mm (.2343 in)   |                            |
|                       | Exhaust                              | New  | 5.946 mm to 5.960 mm (.2341 in to .2346 in)                                     |                            |
|                       |                                      | Service limit  | 5.935 mm (.2337 in)   |                            |
| Valve out of round    | Intake and exhaust                   | New  | 0.005 mm (.0002 in)   |                            |
|                       |                                      | Service limit  | 0.06 mm (.0024 in)  |                            |
| Valve guide diameter  | New                                  |  | 6.006 mm to 6.018 mm (.2365 in to .2369 in)                                     |                            |
|                       | Service limit                        |  | 6.050 mm (.2382 in)   |                            |

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|                                      |                        |                 | SM5   | SE5 |
| <b>ENGINE (cont'd)</b>               |                        |                 |   |     |
| Valve seat contact width             | Intake                 | New             | 1.00 mm to 1.40 mm (.0394 in to .0551 in)       |     |
|                                      |                        | Service limit   | 1.60 mm (.063 in)                               |     |
|                                      | Exhaust                | New             | 1.25 mm to 1.55 mm (.0492 in to .061 in)        |     |
|                                      |                        | Service limit   | 1.80 mm (.0709 in)                              |     |
| Valve lifter bucket diameter         |                        | New             | 33.459 mm to 33.475 mm (1.3173 in to 1.3179 in) |     |
|                                      |                        | Service limit   | 33.440 mm (1.3165 in)                           |     |
| Valve lifter bucket radial clearance |                        | Service limit   | 0.08 mm (.0031 in)                              |     |
| Valve springs free length            | Inner spring           | New             | 39.24 mm (1.5449 in)                            |     |
|                                      |                        | Service limit   | 38.00 mm (1.4961 in)                            |     |
|                                      | Outer spring           | New             | 41.97 mm (1.6524 in)                            |     |
|                                      |                        | Service limit   | 40.50 mm (1.5945 in)                            |     |
| Piston measurement                   | Size "1" / "A"         | New             | 96.940 mm to 96.950 mm (3.8165 in to 3.8169 in) |     |
|                                      |                        | Service limit   | 96.920 mm (3.8157 in)                           |     |
|                                      | Size "2" / "B"         | New             | 96.950 mm to 96.960 mm (3.8169 in to 3.8173 in) |     |
|                                      |                        | Service limit   | 96.930 mm (3.8161 in)                           |     |
| Piston/cylinder clearance            |                        | New             | 0.050 mm to 0.075 mm (.002 in to .003 in)       |     |
|                                      |                        | Service limit   | 0.090 mm (.0035 in)                             |     |
| Piston ring type                     |                        | 1 <sup>st</sup> | Upper compression ring, L-section               |     |
|                                      |                        | 2 <sup>nd</sup> | Lower compression ring, taper-face              |     |
|                                      |                        | 3 <sup>rd</sup> | Oil scraper ring                                |     |
| Ring end gap                         | All                    | New             | 0.15 mm to 0.35 mm (.0059 in to .0138 in)       |     |
|                                      | All                    | Service limit   | 0.100 mm (.0039 in)                             |     |
| Ring/piston groove clearance         | Upper compression ring | Service limit   | 0.120 mm (.0047 in)                             |     |
|                                      | Lower compression ring | Service limit   | 0.120 mm (.0047 in)                             |     |
|                                      | Oil scraper ring       | Service limit   | 0.100 mm (.0039 in)                             |     |
| Cylinder bore                        | Size "1" / "A"         | New             | 97.000 mm to 97.012 mm (3.8189 in to 3.8194 in) |     |
|                                      | Size "2" / "B"         | New             | 97.012 mm to 97.025 mm (3.8194 in to 3.8199 in) |     |
| Camshaft bearing journal             |                        | New             | 23.967 mm to 23.980 mm (.9436 in to .9441 in)   |     |
|                                      |                        | Service limit   | 23.950 mm (.9429 in)                            |     |
| Camshaft bearing journal bore        |                        | New             | 24.007 mm to 24.020 mm (.9452 in to .9457 in)   |     |
|                                      |                        | Service limit   | 24.040 mm (.9465 in)                            |     |
| Camshaft radial clearance            |                        | Service limit   | 0.060 mm (.0024 in)                             |     |
| Crankshaft deflection                | MAG side               | Service limit   | 0.070 mm (.0028 in)                             |     |
|                                      | Clutch side            | Service limit   | 0.040 mm (.0016 in)                             |     |
| Crankshaft pin diameter              |                        | New             | 41.979 mm to 42.010 mm (1.6527 in to 1.6539 in) |     |
|                                      |                        | Service limit   | 41.960 mm (1.652 in)                            |     |

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| <b>ENGINE (cont'd)</b>   |   |   |  |
| Connecting rod big end diameter (with plain bearings)              | Service limit   | 42.080 mm (1.6567 in)   |  |
| Connecting rod big end radial play                                 | New   | 0.020 mm to 0.045 mm (.0008 in to .0018 in)                     |  |
|  | Service limit   | 0.070 mm (.0028 in)   |  |
| Connecting rod small end diameter                                  | New   | 22.010 mm to 22.020 mm (.8665 in to .8669 in)                   |  |
|  | Service limit   | 22.030 mm (.8673 in)  |  |
| Piston pin diameter  | New   | 21.997 mm to 22.000 mm (.866 in to .8661 in)                    |  |
|  | Service limit   | 21.990 mm (.8657 in)  |  |
| <b>CLUTCH</b>  |   |   |  |
| Type   |   | Wet clutch, multi-plate, hydraulic operation (pneumatic assist) | Centrifugal clutch + wet multi-plate clutch, automatically controlled by the TCM |
| Clutch fluid   | Recommended   | Brake fluid DOT 4   |  |
|  | Capacity  | 60 ml (2 U.S. oz)   |  |
| Clutch spring free length  | Service limit   | 58.00 mm (2.283 in)   |  |
| Clutch plate assembly (friction and steel driven plates) thickness | Service limit   | 44.90 mm (1.768 in)   |  |
| Friction and steel driven plate warpage                            | Service limit   | 0.15 mm (.0059 in)  |  |
| Centrifugal clutch speed   | Engagement  | N.A.  | 2000 ± 200 RPM   |
|  | Stall   | N.A.  | 3200 ± 200 RPM   |
| <b>GEARBOX</b>   |   |   |  |
| Type   |   | Sequential manual 5-speed (SM5) with reverse                    | Sequential electronic 5-speed (SE5) with reverse                                 |
| Primary reduction gear ratio                                       |   | 60/31   |  |
| Gear ratio   | 1 <sup>st</sup>                                       | 32/14   |  |
|  | 2 <sup>nd</sup>                                       | 29/17   |  |
|  | 3 <sup>rd</sup>                                       | 26/19   |  |
|  | 4 <sup>th</sup>                                       | 26/23   |  |
|  | 5 <sup>th</sup>                                       | 24/25   |  |
|  | Reverse   | 36/14   |  |
| Shift fork claw thickness  | Service limit   | 3.90 mm (.1535 in)  |  |
| Width of shift fork engagement groove                              | Service limit   | 4.50 mm (.1772 in)  |  |
| Free pinion bore diameter  | 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> | Service limit   | 29.035 mm (1.143 in)   |
|  | 4 <sup>th</sup>                                       | Service limit   | 29.125 mm (1.1467 in)  |
|  | 5 <sup>th</sup>                                       | Service limit   | 26.025 mm (1.0246 in)  |
|  | Reverse   | Service limit   | 40.040 mm (1.5764 in)  |
| Main shaft journal diameter  | MAG side  | Service limit   | 34.975 mm (1.377 in)   |
|  | Free pinion bearing                                   |   | 24.970 mm (.9831 in)   |
|  | Clutch side   |   | 19.970 mm (.7862 in)   |

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| <b>ENGINE (cont'd)</b>                       |                                     |  |                       |
| Clutch shaft journal diameter                | MAG side                            | Service limit  | 19.970 mm (.7862 in)  |
|  | Free pinion bearing 4 <sup>th</sup> | Service limit  | 29.030 mm (1.1429 in) |
|  | Free pinion bearing 5 <sup>th</sup> | Service limit  | 21.970 mm (.865 in)   |
|  | Clutch side                         | Service limit  | 29.965 mm (1.1797 in) |
| <b>COOLING SYSTEM</b>                        |                                     |  |                       |
| Type   |                                     | Liquid cooled, single radiator with cooling fan  |                       |
| Coolant                                      | Type                                | Ethyl glycol/water mix (50% coolant, 50% water).<br>Use premixed coolant sold by BRP (P/N 219 700 362) or coolant specifically designed for aluminum engines |                       |
|  | Capacity                            | 3.2 L (3.4 qt (U.S. liq.))   |                       |
| Thermostat                                   | Opening temperature                 | 75°C (167°F)   |                       |
| Radiator fan                                 |                                     | 102°C (216°F)  |                       |
| Radiator cap opening pressure                |                                     | 90 kPa (13 PSI)  |                       |
| <b>ELECTRICAL SYSTEM</b>                     |                                     |  |                       |
| Magneto generator output                     |                                     | 650 W @ 6000 RPM   |                       |
| Ignition system type                         |                                     | Electronic ignition with dual output coil  |                       |
| Ignition timing                              |                                     | Electronically controlled, not adjustable  |                       |
| Spark plug                                   | Quantity                            | 2  |                       |
|  | Make and type                       | NGK DCPR9E<br>(apply heat-sink paste P12 (P/N 420 897 186) on spark plug thread)   |                       |
|  | Gap                                 | 0.7 mm to 0.8 mm (.028 in to .031 in)  |                       |
| Engine RPM limiter setting                   | Forward                             | 9500 RPM   |                       |
| Battery                                      | Type                                | Maintenance free   |                       |
|  | Model                               | Yuasa YTX24HL-BS   |                       |
|  | Voltage                             | 12 V   |                       |
|  | Nominal rating                      | 21A•h  |                       |
| Headlight                                    |                                     | Halogen, 2 x 55 W<br>CE Models: Halogen, 4 x 60 W  |                       |
| Fog light (Spyder RTS)                       |                                     | Halogen, 2 x 35 W  |                       |
| Taillight/brake light                        |                                     | 2 x 2.25 W   |                       |
| Turn signal lights                           | Front                               | 2 x 4.5 W  |                       |
|  | Rear                                | 2 x 20 W   |                       |
| Position lights                              |                                     | 2 x 5 W  |                       |
| License plate light                          |                                     | 5 W  |                       |
| Backup light                                 |                                     | 2 x 20 W   |                       |
| Day light (Spyder RTS)                       |                                     | 0.5 W  |                       |
| Front storage compartment light (Spyder RTS) |                                     | 0.2 W  |                       |

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|  |  | SM5   | SE5  |
| <b>ELECTRICAL SYSTEM (cont'd)</b>  |  |   |      |
| Fuses<br>(under seat)  | Accessories  | 40 A  |      |
|  | TCM valves   | N.A.  | 20 A |
|  | Rectifier  | 60 A  |      |
|  | Main fuse  | 40 A  |      |
|  | Dynamic Power Steering (DPS) motor   | 40 A  |      |
|  | VSS pump   | 40 A  |      |
|  | Headlights   | 30 A  |      |
|  | VSS valves   | 25 A  |      |
| Fuses<br>(under the service center behind the front storage compartment) | Lights: tail, position, plate & day<br>Vbat: Cluster, VIM & DLC  | 15 A  |      |
|  | Vbat Control: main relays<br>Vkey: SAS, YRS, VCM, ECM, D.E.S.S., PRS & MSR                                     | 10 A  |      |
|  | Vbat: Main relay<br>Vrelayed: WPM, CL, FG, CTG, PBS pilot light, TCM, DPS                                      | 20 A  |      |
|  | Vbat: Cooling fan relay  | 15 A  |      |
|  | Vbat: Hazard, brake light switch   | 10 A  |      |
|  | Vbat: radio (XM, CB, GPS, iPod)  | 15 A  |      |
|  | Vbat: Backup actuator & trailer module   | 10 A  |      |
|  | Vbat: Horn, shedding relay<br>Vrelayed: suspension relay, heated grips, HA, LED<br>Pilot lights: CSS, FHS, FGS | 20 A  |      |
|  | Vbat: Accessory plugs  | 10 A  |      |
|  | Vrelayed: ECM  | 5 A   |      |
|  | Vrelayed: Injectors & ignition coils   | 15 A  |      |
|  | Vrelayed: HO2S1 & 2, EVAP, CAPS, fuel pump motor, CSV, pre-starting relay                                      | 15 A  |      |
| <b>FUEL SYSTEM</b>   |  |   |      |
| Fuel delivery  | Type   | Multi-point Electronic Fuel Injection (EFI) with ETC (Electronic Throttle Control)<br>Dual throttle body (51 mm) with an actuator |      |
| Fuel pump  | Type   | Electrical module in fuel tank  |      |
|  | Operating pressure   | 350 kPa (51 PSI)  |      |
| Idle speed   |  | 1400 RPM ± 100 (not adjustable)   |      |

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|  |   | SM5  | SE5        |  |
| <b>FUEL SYSTEM (cont'd)</b>              |   |  |            |  |
| Fuel                                     | MINIMUM OCTANE RATING                   |  |            |  |
|  | Type                                    | Regular unleaded gasoline  |            |  |
|  | Octane rating                           | Inside North America   | 87 (R+M)/2 |  |
|  |   | Outside North America  | 92 RON     |  |
|  | OCTANE RATING (OPTIMUM PERFORMANCE)     |  |            |  |
|  | Type                                    | Premium unleaded gasoline  |            |  |
|  | Octane rating                           | Inside North America   | 91 (R+M)/2 |  |
| Outside North America                    |   | 95 RON   |            |  |
| Fuel tank capacity                       |   | 25 L (6.6 U.S. gal.)   |            |  |
| <b>DRIVE SYSTEM</b>                      |   |  |            |  |
| Final drive                              | Type                                    | Drive belt   |            |  |
|  | Ratio                                   | 28/79  |            |  |
| Drive belt                               | Material                                | Carbon reinforced  |            |  |
|  | Tension (with rear wheel lifted)        | 750 N ± 250 N (169 lbf ± 56 lbf)   |            |  |
| Final drive ratio                        |   | 2.8:1  |            |  |
| <b>STEERING</b>                          |   |  |            |  |
| Turning radius                           |   | 4.84 m (15.9 ft)   |            |  |
| Total toe-in (vehicle on ground)         |   | -10 mm ± 0.5 mm (-.394 in ± .02 in)  |            |  |
| Camber angle                             |   | 0° ± 0.5°  |            |  |
| Tie-rod maximum length unengaged threads |   | 12 mm (.4724 in) maximum   |            |  |
| Tie-rod maximum length                   |   | 595 mm (23.43 in)  |            |  |
| <b>SUSPENSION</b>                        |   |  |            |  |
| <i>FRONT</i>                             |   |  |            |  |
| Suspension type                          |   | Double suspension arm with anti-roll bar   |            |  |
| Suspension travel                        |   | 151 mm (5.9 in)  |            |  |
| Shock absorber                           | Qty                                     | 2  |            |  |
|  | Type                                    | Oil damper   |            |  |
| Spring free length                       |   | 250.5 mm ± 3 mm (9.9 in ± .1 in)   |            |  |
| Spring preload adjustment                |   | 5 position cam adjustment  |            |  |
| <i>REAR</i>                              |   |  |            |  |
| Suspension type                          |   | Air pressure<br>Swing arm with single shock  |            |  |
| Preload adjustment                       | Spyder RT/Audio and Convenience Package | Adjustable air pressure: 69 kPa to 689 kPa (10 PSI to 100 PSI)   |            |  |
|  | Spyder RTS                              | Air Controlled Suspension (ACS)<br>Compressor-controlled air suspension<br>with 5 customized positions |            |  |

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| <b>SUSPENSION (cont'd)</b>       |                              |   |     |
| Suspension travel                |                              | 145 mm (5.7 in)   |     |
| Shock absorber                   | Qty                          | 1   |     |
|                                  | Type                         | Oil damper  |     |
| Spring free length               |                              | 100 mm (3.9 in)   |     |
| Spring color code                |                              | Gold/Black/Gold   |     |
| <b>BRAKES</b>                    |                              |   |     |
| Type                             |                              | Foot-actuated. Fully integrated hydraulic 3-wheel braking system with ABS and EBD |     |
| Front brake                      |                              | Dual discs of 250 mm (9.8 in) with 4 piston calipers                              |     |
| Rear brake                       |                              | Single disc of 250 mm (9.8 in) with 1 piston caliper                              |     |
| Brake fluid                      | Capacity                     | 530 ml (17.9 U.S. oz)   |     |
|                                  | Type                         | DOT 4   |     |
| Parking brake                    |                              | Mechanical, electrically actuated to the rear caliper                             |     |
| Caliper                          | Front                        | 4 piston caliper  |     |
|                                  | Rear                         | Single piston. Sliding pins caliper   |     |
| Brake pad material               | Front                        | Organic   |     |
|                                  | Rear                         | Organic   |     |
| Minimum brake pad thickness      |                              | 1 mm (.04 in)   |     |
| Minimum brake disc thickness     | Front/rear                   | 5.33 mm (.21 in)  |     |
| Maximum brake disc warpage       |                              | 0.12 mm (.005 in)   |     |
| <b>TIRES AND WHEELS</b>          |                              |   |     |
| <i>TIRES</i>                     |                              |   |     |
| Type (use BRP recommended tires) | Front                        | MC 165/65R14 47H (special motorcycle type)  |     |
|                                  | Rear                         | MC 225/50R15 76H (special motorcycle type)  |     |
| Pressure                         | Front                        | Minimum: 89 kPa (13 PSI) (0.89 bar)<br>Maximum: 117 kPa (17 PSI) (1.17 bar)       |     |
|                                  | Rear                         | Minimum: 179 kPa (26 PSI) (1.79 bar)<br>Maximum: 207 kPa (30 PSI) (2.07 bar)      |     |
| Minimum tire thread depth        | Front                        | 2.5 mm (3/32 in)  |     |
|                                  | Rear                         | 4.0 mm (5/32 in)  |     |
| <i>WHEELS</i>                    |                              |   |     |
| Size                             | Front                        | 14 in x 5 in  |     |
|                                  | Rear                         | 15 in x 7 in  |     |
| Front wheel nuts torque          |                              | 105 N•m (77 lbf•ft)   |     |
| Rear drive axle nut torque       |                              | 130 N•m (96 lbf•ft)   |     |
| <b>DIMENSION</b>                 |                              |   |     |
| Overall length                   |                              | 2 667 mm (105 in)   |     |
| Overall width                    |                              | 1 572 mm (62 in)  |     |
| Overall height                   | Windshield in upper position | 1 600 mm (63 in)  |     |
|                                  | Windshield in lower position | 1 510 mm (59.5 in)  |     |
| Seat height                      |                              | 780 mm ± 10 mm (30.7 in ± .4 in)  |     |

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| <b>DIMENSION (cont'd)</b>   |                                       |                         |     |
| Wheel base  |                                       | 1 708 mm (67 in)        |     |
| Front wheel track   |                                       | 1 384 mm (54.5 in)      |     |
| Ground clearance (front and under engine)   |                                       | 115 mm (4.5 in)         |     |
| <b>WEIGHT AND LOADING CAPACITY</b>  |                                       |                         |     |
| Dry weight  | Spyder RT                             | 400 kg (882 lb)         |     |
|   | Spyder RT Audio & Convenience Package | 413 kg (911 lb)         |     |
|   | Spyder RTS                            | 422 kg (930 lb)         |     |
| Front storage compartment   | Capacity                              | 55 L (14.5 U.S. gal.)   |     |
|   | Maximum load                          | 16 kg (35 lb)           |     |
| Glove box   | Capacity                              | 1.8 L (.5 U.S. gal.)    |     |
|   | Maximum load                          | 2 kg (4 lb)             |     |
| Side storage compartment  | Capacity                              | 23.5 L (6.2 U.S. gal.)  |     |
|   | Maximum load                          | 7 kg (15 lb)            |     |
| Rear storage compartment  | Capacity                              | 40.5 L (10.7 U.S. gal.) |     |
|   | Maximum load                          | 9 kg (20 lb)            |     |
| Total vehicle load allowed (including operator, passenger, cargo and added accessories) |                                       | 240 kg (525 lb)         |     |
| Gross vehicle weight rating (GVWR)  |                                       | 663 kg (1,462 lb)       |     |
| Maximum weight on trailer tongue  |                                       | 18 kg (40 lb)           |     |
| Maximum towed weight (trailer and cargo)  |                                       | 180 kg (400 lb)         |     |