



SECTION 1 – SUMMARY

Radical Motorsport Ltd engines have a limited warranty provided that the operating conditions are strictly adhered to. Radical Motorsport Ltd will warrant the engine against major defects for **40** hours, on condition that the engines meet the criteria set out below:

- This warranty **covers** the failure of major engine components in new engines against manufacturing defects or poor workmanship, including crankshaft, conrods, pistons, crankcase castings, oil pumps, cylinder blocks, cylinder heads and internals.
- This warranty **covers** the failure of engine components that have been fitted by Radical Motorsport Ltd into rebuilt engines against manufacturing defects or poor workmanship.
- This warranty **covers** third party cost provided such costs are **approved in advance** and the warranty claim number has been issued prior to the costs being incurred.
- The 40 hours warranty applies to **ALL** Radical-Ecoboost engine types and variants, that Radical Motorsport Ltd supply.
- For Radical-Ecoboost engine range, the warranty **does not cover** the gearbox, clutch, clutch mechanism, starter motor, alternator, exhaust headers/ pipes or induction system.

SECTION 2 – WARRANTY CRITERIA

1. Baseline Criteria:

1. Warranty is valid up to a maximum of 40 hours of total running time (for newly supplied RPG, RPE engines); and the GSX-R 1340cc & 1500cc engines), or 12 months from the first on-load recorded session, whichever is the sooner.
2. Post engine rebuild by Radical Motorsport Ltd, the warranty will be limited to manufacturing defects in the parts replaced at the time of rebuild and to the workmanship involved in the rebuild.
3. This warranty will be void in any engine that exceeds the above criteria or is recorded as a failure to observe dashboard warnings e.g. running outside of operating limits.
4. To claim warranty a form must be completed and full ECU data provided. Failure to do so will automatically disqualify the warranty claim.
5. The warranty will not cover your engine against oil, fuel pressure and coolant temperature related failures.
6. The warranty will be void if the Engine factory seal is found to be 'broken'.

2. Engine ECU:

1. Only the designated Radical Motorsport Ltd 'locked' ECU may be used with the engine. Should the ECU malfunction, a replacement Radical Motorsport Ltd 'locked' ECU may be used with the approval of Radical Motorsport Ltd.
2. The complete data from the ECU and logging system showing every time the engine has run must be made available to Radical Motorsport Ltd when the engine is returned for inspection, re-build or warranty-related issue.
3. If the engine is cut due to any of the engine sensor cut out parameters being activated then the engine should not be restarted before the fault is located and rectified with data to support. Failure to do so will invalidate your warranty.
4. For the warranty conditions to apply, the ECU software level must be a minimum of V-573 and utilise Euro oil and fuel pressure sensors.

3. Engine Speed:

1. The engine speed is limited to 7250rpm on 2.3 Radical-Ecoboost. and the engine speed is limited to 7,000rpm on GEN2 3.5 V6 variants. Persistent use of the limiter will damage the engine. If the engine data highlights greater than 400 limiter strikes within the warranty period, the warranty is void, and the engine must be returned to Radical Motorsport Ltd for repair at the customers cost before being run again.
2. If the engine is run over 7,600rpm on 2.3 Radical-Ecoboost for ANY period of time, the warranty is voided.
If the engine is run over 7,500rpm on GEN2 3.5 V6 variants for ANY period of time, the warranty is voided.

4. Fluids:

1. Engine Oil: Radical Motorsport Ltd will only warrant the engine provided one of the following oil specifications is used: All engines must use Motul 300V 4T 5W40 or Fuchs ProS 5W40, apart from the 2.3 Radical-Ecoboost which must use Motul X-Power 8100 10W60, and is changed every 7.5 hours including the oil filters.
2. In the event of a claim, Radical Motorsport Ltd will conduct oil analysis to confirm the oil grade, type, and age.
3. If you do not maintain the correct oil level over the recommended minimum limit, then your warranty will be void.
4. Coolant system: 50% water and 50% antifreeze/summer coolant
5. Fuel: Minimum fuel is 98 Octane. If lower grade fuel is used this will cause irreparable damage to the engine, and your warranty will be void.

5. Warming Up:

1. The engine should be started 45 minutes prior to going on track. Turn the engine off when the coolant temperature reaches 85°C and allow heat to soak into the engine. Restart 5 minutes before going on track and raise the coolant temperature back up to 75°C.
2. The oil level should be checked after every hour of running, and it should be topped up and checked with the correct oil dip stick as used by Radical.

6. Operating Limits:

1. Engine under load parameters are as follows:
 - i. Oil temperature needs to be within the parameters of 50°C to 120°C
 - ii. Water temperature needs to be within the parameters of 60°C to 100°C
 - iii. Inlet manifold temperature needs to be below 60°C

Failure to comply with above parameters will invalidate your warranty.

Note, the ECU log book considers on load to be when the rpm exceeds 3000rpm with more than 25% throttle, or when the vehicle exceeds 30mph

7. Rebuilds:

1. Once the engine has undergone the first rebuild by Radical Motorsport Ltd, only components replaced will be warranted for manufacturing defects. All subsequent component failures will be at the customer's expense.
2. Any damage caused, due to poor workmanship, will be warranted.

Rebuilds must be to Radical Motorsport Ltd required standard, and carried out by a Radical Motorsport Ltd trained Technician.

SECTION 3 – COMMUNICATION

Technical Bulletins:

1. It is the responsibility of the owner to read the technical bulletins published on: www.radicalsportscars.com/downloads and carry out any relevant upgrades to safeguard their warranty cover.

Contact Details:

For more information or clarification on any of the points listed here please contact:

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