O3 Protegelo — Installation Checklist

Revision: Rev-Final

Scope: Installation quality control

Governing document: Definitions & Conventions — Rev-Final

This checklist must be completed for every installation.

It is a process control document and forms part of the installation record.

1. Installer and Asset Details

☐ Date of installation

☐ Installer name / company

☐ Asset type (vehicle / NRMM / marine / generator / burner)

☐ Engine or burner model

☐ Asset registration / ID

☐ O_3 model installed (Pro / Pro Duo / Van / Car)

☐ Device serial number

2. Fuel and System Verification

☐ Fuel type confirmed (room-temperature liquid hydrocarbon)

☐ Fuel system visually inspected

☐ No known injector, pump, or pressure regulation faults

☐ Fuel filter condition checked

- ☐ Filter serviceable

☐ Filter replaced (if contaminated or near service limit)

☐ Fuel additives in use recorded (if applicable)

3. Installation Line

☐ Installation line:

Feed fuel line (recommended and only explicitly required for formal measurement tests)

Return fuel line (used only where feed line access is not practical)

☐ Installation location clearly identified and accessible

4. Orientation and Mounting

☐ Device orientation checked and confirmed

☐ Vertical orientation applied (preferred for larger engines / higher fuel flow systems)

☐ Horizontal orientation used due to space or layout constraints – system bled and verified

☐ Device mounted securely

☐ Device protected from heat, sharp edges, and moving parts

☐ Fuel lines supported (no side-load or tension on device ports)

5. Fittings and Connectors (Critical)

☐ Pipe / hose type identified

☐ Pipe or hose size measured correctly

☐ Hose ID confirmed

☐ Plastic or rigid line OD confirmed

☐ Device-side fitting type confirmed

☐ Correct adaptor selected for device port

☐ Full insertion depth achieved on all connections

☐ No looseness or partial seating

☐ Push-in connectors used

☐ New (single-use)

☐ Not reused

6. Torque Verification

☐ Fittings torqued using tools

☐ 22 Nm (brass / chromed-brass fittings)

☐ 20 Nm (plastic fittings)

☐ Hand-tightening not used

7. Bleeding and Commissioning

☐ OEM bleed or prime function used (if available)

☐ Ignition cycled ON / OFF three times (where applicable)

☐ Engine run at moderate-to-high stable RPM for approximately 3 minutes

☐ Engine idled for ~5 minutes

☐ System inspected for leaks

☐ Commissioning repeated once (if air suspected)

8. Operational Check

☐ Engine / system starts and runs normally

☐ No warning lights or fault codes related to fuel supply

☐ Idle stable

☐ No abnormal noise or vibration

9. Magnet Exposure Check

☐ Device and fuel system confirmed not exposed to strong external magnets

☐ If magnet exposure suspected:

- ☐ Checked with magnetometer / Gauss-measurement application
- ☐ Device replaced (if magnetised)

10. Final Record

☐ Installation notes recorded

☐ Completed checklist retained by installer / distributor

☐ Customer informed of:

Service life (~2.5 years from first fuel contact)

Normal return to pre-installation behaviour at end of service life

Installer signature: _____ Date: _____

End — Installation Checklist - Document Version: Rev-2