

INSTALLER GUIDE

Vehicle & tractor power module installations

PREPARE | FIT | VERIFY | RECORD

VERSION 1.0 | 14 JULY 2026

Purpose. A practical standard for safe preparation, installation, testing and customer handover. *This guide supplements - and never replaces - the model-specific STEINBAUER fitting instructions, OEM workshop information, site rules and applicable UK law.*

STOP-WORK RULE Do not continue if the application or part number cannot be verified; the engine has an active fault, leak or damaged wiring; a connector will not seat normally; or safe road/dynamometer testing cannot be controlled. Record the issue and obtain technical guidance.

INSTALLATION PRICING GUIDANCE

VEHICLE INSTALLATION FROM £200 Location dependent; standard installation only.	TRACTOR + PTO DYNO FROM £300 Installation with comparative dynamometer testing.
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Quotation note. Final price depends on postcode, travel, access, engine layout, diagnostic time, dyno suitability and any remedial work. Parts, repairs and additional testing are extra unless stated. Confirm VAT treatment and payment terms in writing. Coverage is not available for every UK postcode, including some Northern Ireland and Scottish Highlands locations.

CUSTOMER PREPARATION BEFORE THE APPOINTMENT

☐ Provide the full installation address, site contact and access instructions.	☐ Confirm make, model, year, engine, VIN/serial number and STEINBAUER part number.
☐ Disclose warning lights, known faults, ECU tuning, emissions changes and other modifications.	☐ Ensure the engine is serviceable, with adequate fuel, a healthy battery and no fluid leaks.
☐ Leave the vehicle/machine reasonably clean; make connectors and access panels reachable.	☐ Supply all keys and immobiliser details needed for safe starting and testing.
☐ For road testing, provide permission and a legal, insured, roadworthy vehicle.	☐ For tractors, provide a level ventilated area, safe PTO access, guards and a responsible operator.

BOOKING CONTROL Installation dates and guide prices are subject to confirmation. No credit terms should be assumed; payment is due in accordance with the accepted quotation or booking terms.

WORKFLOW 01

VEHICLE INSTALLATION

Objective. Fit the correct module without introducing faults, harness stress or environmental exposure, then prove normal operation under controlled load.

1	Verify the application. Match the vehicle/engine details, module label, loom and part number to the current model-specific instructions. Do not rely on connector appearance alone.
2	Record the baseline. Note mileage, dashboard warnings and visible defects. Complete a diagnostic scan where appropriate and retain relevant codes before clearing anything.
3	Make the vehicle safe. Park level, select Park/neutral, apply the brake, remove the key and keep it away from the vehicle. Allow control units to shut down as specified. Isolate the battery only when the instructions require it and data/security precautions are understood.
4	Identify and inspect connectors. Use the fitting diagram and connector position. Check pins, seals, locks and original wiring. Components must be clean and dry; never force a plug or pull on wiring.
5	Connect the loom. Install each interposed connection in the stated order. Confirm an audible/tactile latch, correct seal position and enough slack for engine movement without tension.
6	Route and mount. Follow the OEM loom where practical. Keep clear of exhaust heat, sharp edges, belts, fans, steering and suspension. Protect crossings and secure the harness without crushing it. Mount the module in the specified orientation so water or washing chemicals cannot collect; shield it from direct spray and excessive vibration.
7	Complete any signal connection. Where a throttle or other signal wire is required, identify it from the correct technical information and verify it by an approved measurement method. Use a suitable sealed connection with insulation and strain relief.
8	Perform the first start. Restore power if isolated. Check ignition-on behaviour, then start at idle. Watch warning lamps, listen for abnormal running and inspect every fitted connection. If a fault appears, stop, switch off, allow shutdown and diagnose before retesting.

CONTROLLED ROAD TEST

TEST SEQUENCE Bring the engine to normal temperature and confirm stable idle. Use a safe legal route; apply load progressively through the normal operating range. Check drivability, throttle response, gear changes and warning indications.	PASS CRITERIA No new warning lamps or installation-related diagnostic codes. Smooth power delivery with no hesitation, smoke concern or abnormal noise. Module, connectors and harness remain secure after heat and vibration.
ABORT IMMEDIATELY Stop the test for a warning lamp, abnormal temperature or pressure, fuel/oil/coolant leak, excessive smoke, detonation/knock, severe hesitation, loss of power, unsafe traffic conditions or any unsecured component.	

WORKFLOW 02

TRACTOR INSTALLATION & PTO DYNO TEST

Objective. Install to the same electrical and routing standard as a vehicle, then make a repeatable factory/active comparison under controlled PTO load.

SITE AND MACHINE SAFETY

Use firm, level ground with ventilation, lighting and an exclusion zone.

Apply parking brake and chocks as required; agree operator/tester roles and emergency stop signals.

Keep people clear of rotating parts; use suitable hearing and eye protection.

PTO DYNAMOMETER SAFETY

Use a correctly rated, maintained dyno and shaft, anchored and guarded to manufacturer instructions.

Confirm PTO speed, shaft overlap/alignment, guards, restraints and emergency shutdown before running.

Never adjust, approach or step over a rotating PTO shaft. Stop fully before inspection.

INSTALLATION AND COMPARATIVE TEST

1	Inspect and baseline. Record hours, warnings, service condition, ambient conditions and relevant fault codes. Check coolant/oil levels, tyres, guards and PTO condition. Do not test an unserviceable machine.
2	Make safe and install. Shut down and allow electronic systems to sleep. Follow the exact application instructions. Protect the loom from heat, sharp edges, steering, linkages, mud and chemical spray; mount the module in its specified orientation and fully secure all wiring.
3	Prepare the comparison. Warm the engine and dyno. Use the same PTO speed, test method and operating conditions for factory/bypass and active runs. Record the chosen module setting.
4	Load progressively. Stabilise at each test point and monitor warning lamps, coolant temperature, oil pressure and engine behaviour. Follow dyno and engine limits; never chase a peak figure at the expense of safety.
5	Record useful results. Capture PTO power, engine/PTO speed, test conditions and observations. Compare the usable power curve and repeatability as well as peak output.
6	Cool down and reinspect. Unload gradually, allow an appropriate cool-down, shut down and wait for all rotation to stop. Recheck the PTO setup, module mount, connectors and harness after heat and vibration.

POST-INSTALLATION HANDOVER

☐ Final diagnostic scan completed; any codes explained and recorded.	☐ No leaks, chafing, loose connectors, trapped seals or unsupported wiring.
☐ Module part/serial number, location and setting recorded on the job sheet.	☐ Baseline and final road/dyno observations attached to the customer record.
☐ Customer shown the installation, operating advice and what to do if a warning appears.	☐ Quotation variations, advisories, payment status and any follow-up work documented.

CUSTOMER ADVICE Performance and any efficiency benefit depend on the application, condition, load and operation. The module does not correct existing mechanical or electronic faults. If abnormal running or a warning occurs, stop using the vehicle/machine where safe, switch off and contact STEINBAUER UK before further loaded operation.

INSTALLER	CUSTOMER / OPERATOR	DATE