Vehicle Remapping

Description

BRITISH QUALIFIED MECHANIC - LANZAROTE

Vehicle remapping for cars, commercial vans, campervans and motorhomes. Check the estimated Stage 1 potential of your exact engine and see the likely power and torque increase before you book.

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- Hill climbing
- Loaded vans
- Overtaking
- Economy option

ESPECIALLY RELEVANT IN LANZAROTE

Cars, vans and leisure vehicles

Loaded vehicles, hills and long island journeys often benefit more from usable torque than a headline horsepower figure. We tune with the way the vehicle is actually used in mind.

LEISURE VEHICLES

RV

Motorhomes & campervans

Improve low-speed pulling power and mid-range response on suitable engines, particularly useful when the vehicle is loaded or climbing.

WORKING VEHICLES

More usable torque for tools, stock and daily driving. Economy-focused calibration can also be assessed where appropriate.

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EVERYDAY PERFORMANCE

Sharper response, improved mid-range performance and stronger acceleration without turning the vehicle into something difficult to live with.

Performance remapping

Optimised calibration for improved power, torque and throttle response on suitable vehicles.

Economy-focused tuning

Available on suitable vehicles where improved low-down torque and reduced fuel use are the priority.

Workshop assessment

Final suitability is confirmed after ECU software, vehicle condition and existing faults are checked.

Check your vehicle

Select the exact vehicle and engine. The figures shown are tuning-data estimates, not a measured dyno result.

Registration (optional)

Make

Model

Generation

Engine

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Latest workshop advice

Useful reads from British Qualified Mechanic

14 Dec 2024

Know Your Smoke

14 Dec 2024

Your Ficha TÃ©cnica

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':''; } function clean(v){ return String(v??'').replace(/[&<>"']/g,c=>({'&':'&','<':'<','>':'>','"':'"',"'":'''}[c])); } function chart(stock,stage){ const svg=$('bqmrm-chart'); const max=Math.max(stock,stage,1)*1.15,w=720,h=330,l=52,r=18,t=22,b=42,pw=w-l-r,ph=h-t-b; const xs=[0,.08,.17,.27,.38,.5,.62,.73,.83,.91,1]; const s1=[0,.08,.20,.36,.53,.69,.82,.91,.97,1,.95]; const s2=[0,.09,.22,.39,.57,.73,.86,.94,.99,1,.96]; const points=(peak,shape)=>shape.map((q,i)=>(l+xs[i]*pw).toFixed(1)+','+(t+(1-q*peak/max)*ph).toFixed(1)).join(' '); let out=''; for(let i=0;i<=5;i++){ const y=t+i*(ph/5),val=Math.round(max*(1-i/5)); out+='<line x1="'+l+'" y1="'+y+'" x2="'+(w-r)+'" y2="'+y+'" stroke="#e5e7eb"/><text x="'+(l-8)+'" y="'+(y+4)+'" text-anchor="end" font-size="11" fill="#6b7280">'+val+'</text>'; } out+='<polyline points="'+points(stock,s1)+'" fill="none" stroke="#2563eb" stroke-width="3"/>'; out+='<polyline points="'+points(stage,s2)+'" fill="none" stroke="#dc2626" stroke-width="3"/>'; out+='<text x="'+(w/2)+'" y="'+(h-8)+'" text-anchor="middle" font-size="12" fill="#6b7280">Engine speed - illustrative</text>'; out+='<text x="14" y="'+(t+ph/2)+'" transform="rotate(-90 14 '+(t+ph/2)+')" text-anchor="middle" font-size="12" fill="#6b7280">Power hp</text>'; out+='<text x="'+(l+8)+'" y="'+(t+14)+'" font-size="12" fill="#2563eb">Stock</text>'; out+='<text x="'+(l+58)+'" y="'+(t+14)+'" font-size="12" fill="#dc2626">Stage 1</text>'; svg.innerHTML=out; } function render(data){ const rec=(data&&Array.isArray(data.carinfos)&&data.carinfos.length)?data.carinfos[0]:data; const stockHp=n(rec.stock_hp),stageHp=n(rec.stage1_hp),stockNm=n(rec.stock_nm),stageNm=n(rec.stage1_n if(!stockHp||!stageHp) throw new Error('No Stage 1 estimate is available for this engine.'); const make=(data.make&&data.make.name)||e.make.options[e.make.selectedIndex]?.text||''; const model=(data.model&&data.model.name)||e.model.options[e.model.selectedIndex]?.text||''; const generation=(data.generation&&data.generation.name)||e.generation.options[e.generation.selectedIndex]? const engine=(data.engine&&data.engine.name)||e.engine.options[e.engine.selectedIndex]?.text||''; $('bqmrm-title').textContent=[make,model,engine].filter(Boolean).join(' '); $('bqmrm-meta').textContent=[generation,rec.engine_code?('Engine code '+rec.engine_code):''].filter(Boolean).join(' - '); $('bqmrm-stockhp').textContent=Math.round(stockHp)+' hp'; $('bqmrm-stagehp').textContent=Math.round(stageHp)+' hp (+'+Math.round(stageHp-stockHp)+')'; $('bqmrm-stocknm').textContent=stockNm?Math.round(stockNm)+' Nm':'-'; $('bqmrm-stagenm').textContent=stageNm?Math.round(stageNm)+' Nm (+'+Math.round(stageNm-stockNm)+')':'-'; let ecu=''; if(Array.isArray(rec.ecu)&&rec.ecu[0]) ecu=[rec.ecu[0].make,rec.ecu[0].model].filter(Boolean).join(' '); let methods=''; if(Array.isArray(rec.read_methods)) methods=rec.read_methods.map(x=>typeof x==='string'?x:x.name).filter(Boolean).join(', '); $('bqmrm-details').innerHTML= detail('Fuel',clean(rec.fuel_type||''))+ detail('Capacity',rec.cylinder_cc?clean(rec.cylinder_cc)+' cc':'')+ detail('ECU',clean(ecu))+ detail('Read method',clean(methods))+ detail('Power gain','+'+Math.round(stageHp-stockHp)+' hp')+ (stockNm&&stageNm?detail('Torque gain','+'+Math.round(stageNm-stockNm)+' Nm'):''); chart(stockHp,stageHp); e.result.classList.add('show'); setStatus(''); e.result.scrollIntoView({behavior:'smooth',block:'start'}); } async function loadMakes(){ if(!configured){ setStatus('The remapping data connection is not configured yet. You can still contact us for a vehicle-specific estimate.',true); return; } try{ setStatus('Loading vehicle database...'); fill(e.make,rows(await api('makes')),'Select make');

setStatus(''); }catch(err){setStatus(err.message,true)} } e.make.addEventListener('change',async()=>{ reset(e.model,'Select model');reset(e.generation,'Select generation');reset(e.engine,'Select engine');e.result.classList.remove('show'); if(!e.make.value)return; try{setStatus('Loading models...');fill(e.model,rows(await api('models',e.make.value)),'Select model');setStatus('')}catch(err){setStatus(err.message,true)} }); e.model.addEventListener('change',async()=>{ reset(e.generation,'Select generation');reset(e.engine,'Select engine');e.result.classList.remove('show'); if(!e.model.value)return; try{setStatus('Loading generations...');fill(e.generation,rows(await api('generations',e.model.value)),'Select generation');setStatus('')}catch(err){setStatus(err.message,true)} }); e.generation.addEventListener('change',async()=>{ reset(e.engine,'Select engine');e.result.classList.remove('show'); if(!e.generation.value)return; try{setStatus('Loading engines...');fill(e.engine,rows(await api('engines',e.generation.value)),'Select engine');setStatus('')}catch(err){setStatus(err.message,true)} }); e.engine.addEventListener('change',async()=>{ e.result.classList.remove('show'); if(!e.engine.value)return; try{setStatus('Calculating estimated Stage 1 gains...');render(await api('vehicle',e.engine.value))}catch(err){setStatus(err.message,true)} }); loadMakes(); })();

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