

RESTORATION STANDARDS AT J.D CLASSICS RECEIPT OF VEHICLE

1. EXAMINATION

- a. Agreement regarding retention or replace / refurbish strategy of original parts e.g. Soft trims in good original condition
- b. Full Workshop Health Check Inspection
- c. Identification of missing, damaged and non original components
- d. Physical vehicle check against original build specification for engine, cylinder head, gearbox, front frame, body tag and VIN plate alignment
- e. Where possible complete running and driving appraisal

2. BODY PREPARATION

- a. DISMANTLING
- b. Strip car of all components, back to bare painted shell (photograph and document for condition)
- c. Components are boxed / labelled / stored to ensure alignment to original vehicle
- d. Photograph and record condition of stripped body shell
- e. Media blast entire body shell back to a bare metal shell, including removal of all bolt on panels
- f. As a bare minimum - inspect inner sill integrity with outer sill removal or borescope inspection
- g. Inspect and test picture frame, and other engine frames for integrity replace and repair as need

3. BODY RESTORATION

- a. Cut out and remove any corroded, visibly weakened or distorted panels, using Jaguar Classic Panels wherever possible - body and closures
- b. Repair sections are inserted using edge welding for originality, replaced panels are welded using exact or replicated joining processes
- c. All enclosed sections to be corrosion protected as a part of the body assembly process
- d. Re-fit and align doors, boot and bonnet to ensure factory specified gap and flush fit conditions are achieved
- e. Front & rear bumpers plus any other body fitting hardware is trial fitted and coordinated to ensure factory specified alignment after paint
- f. Where necessary as per original specification external joints and some shaping is achieved via lead loading
- g. Photograph and record condition of repaired body shell

4. REFINISHING

- a. Bodyshell will be Painted
- b. Once repairs are complete body is initially epoxy etch primed and low baked

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- c. Surfaces are finessed for shape using sprayed polyester followed by high build primer and low baked
- d. Joints are seam sealed using air drying seam sealer
- e. Final colour paint finish is either 2k acrylic warm air dried or water based refinish paint clear over base technology low baked
- f. Final polishing involves wet flattening by hand and machine polishing using compounding polish.
- g. The underbody is anti stone chip sprayed and finished either body colour or black as agreed with the customer.
- h. Wax treatment is sprayed into any corrosion liable areas including sills and box sections
- i. A protective film is applied to protect the paint finish during the reassembly process

5. EXTERIOR

6. BRIGHTWORK

- a. All chrome work will be stripped, repaired and refitted as required before re-chroming and refitting - retaining as many original parts as possible
- b. If beyond repair new chrome items are fitted and adjusted as a last resort
- c. The rear face of chrome bumpers etc will be repainted as original
- d. Exterior mirrors replated or replaced, and where not fitted period style mirror fitted with enhanced functionality to customer requirement

7. GLAZING AND SEALING

- a. All rubber body seals are replaced then shaped and fitted as required
- b. Front and rear screens are cleaned, inspected and replaced if required and installed using new seals
- c. All side glass cleaned, inspected and replaced if required and refitted with new or refinished glass run channels and seals
- d. Window regulators cleaned, and new star drive and quadrant fitted and standard or replaced as needed

8. LIGHTING AND PLATES

- a. New front lamps fitted with Halogen bulbs as standard except at customer request of originality
- b. Front and rear lamp bodies replated or replaced and mounted with new seals
- c. Marker and rear lamp lenses inspected and replaced if required
- d. New period correct number plates fitted
- e. All door, trunk and bonnet locks and latches refurbished and replated or replaced to offer one key fits all solution or as original

9. INTERIOR

10. SEATING

- a. All seats are stripped to a bare frame and metal components stripped and recoated for protection (assuming replacement strategy is agreed)
- b. All seat foams are replaced with fire re-tardant foams
- c. All springs and webbing replaced
- d. All seats and armrest re-covered in customer choice of period correct leather trim (assuming replacement strategy is agreed)

11. CABIN TRIM

- a. Door cards, sills, boot boards, dash board and other cabin items retrimmed in period correct materials and surface grain
- b. Option of additional modern sound deadening materials on cabin floor and tunnel
- c. Factory correct carpets fitted to the cabin

12. ON COUPES - HEADLING FABRIC AND SUNVISORS REPLACED / RECOVERED WITH PERIOD CORRECT FABRIC TRIM

- a. Period fabric lap or inertia reel belts per customer requirement fitted colour choice available
- b. Steering wheel checked for structural integrity and reconditioned or replaced as required
- c. Steering column stripped, refinished and reassembled with new bushes and universal joints, lock and column stalks stripped clean and rebuilt
- d. Hand of drive change can be offered at customer request

13. INSTRUMENTS

- a. All dials are stripped and re-conditioned to achieve maximum reliability and accuracy
- b. New speedo and where applicable tachometer drive cables fitted

14. ELECTRICAL SYSTEMS

- a. New body wiring harnesses connector blocks fitted throughout, braided and terminated as original
- b. Fuse holders, fuses & relays replaced. New correct appearance battery and mounting system fitted
- c. All switch gear is tested and repaired or replaced as required
- d. Period radio fully reconditioned and upgraded (bluetooth/ MP3/ DAB) to customer requirement
- e. Upgrade electrical cooling system fully supported by enhanced power supply circuitry can be specified at customer request
- f. Upgrade ignition system with original appearance fitted as standard unless specified by customer

- g. New wiper arms, blades and jets fitted, original bottle refinished and reused if possible, Wiper motor reconditioned and refinished

15. CONVERTIBLE TOP (IF APPLICABLE)

- a. hooding stripped off, frame media blast cleaned and refinished in original colours, hood refitted as original or per customer requirement
- b. Hood latching mechanism refurbished and replated or replaced
- c. Hood cover (tonneau) replaced

16. MECHANICAL SYSTEMS

- a. Engine and Cooling System
- b. Engine will be stripped and rebuilt
- c. The engine is stripped and cleaned before being thoroughly measured and tested to assess condition of the original components
- d. All operational component factory tolerances will be measured and adhered to
- e. Pistons, rings, piston liners (where applicable), bearings, drive chains & oil pump will be replaced as a matter of course
- f. Crankshaft, conrods and flywheel will be cleaned, crack tested, machined to suit new bearings and balanced (as appropriate)
- g. Cylinder head will be acid dipped to decarbonize, refaced and recut to suit new valves, springs, valve guides / seals,
- h. All oil seals, gaskets and core plugs replaced
- i. Engine fully reassembled to factory tolerances and tested prior to installation. Comes with 12 month or 12,000 mile manufacturer warranty
- j. Engine externally refinished to factory specification
- k. Starter motor and dynamo / alternator are reconditioned, refinished as original and refitted with new drive belts
- l. Radiator and header tank replaced with new or record & refinished, along with water pump and all hoses and clips
- m. Carburation, Exhaust and Fuel System
- n. Carburetors are stripped and vapor blast and ultrasound cleaned to original appearance
- o. Carburetors are reassembled with new diaphragm, jets, needles, gaskets, replated linkages, bushes etc.
- p. Intake manifolds are likewise cleaned and prepared to include polishing as original
- q. Air intake components are refinished to original specification and reinstalled with new air filters
- r. Fuel tank is dip cleaned & sealed, inspected and refinished. Fuel pumps, lines and filters all replaced, locking petrol cap fitted
- s. Jaguar original equipment exhaust fitted (enhanced corrosion protected mild steel) with new clamps, rubber mounts and gaskets
- t. Drivetrain and Suspension

- u. Gearbox stripped and assessed before being rebuilt with replacement parts as needed & refinished, bellhousing vapor blast cleaned for original appearance
- v. New clutch driven, pressure plate and release bearing fitted, master and slave cylinders being replaced
- w. Rear differential stripped and assessed before being rebuilt with replacement parts as needed, ratio options available, painted finish
- x. Rear independent suspension stripped, frame inspected then zinc primed and powder coated
- y. Prop shaft and driveshafts stripped, universal joints replaced and refinished. Shock absorbers replaced
- z. Front and rear uprights, wishbones and suspension arms dismantled, replated or refinish and refitted with new bushes, bearings and seals
- aa. Splined hubs where appropriate replaced, wire wheels replaced and refitted with new correct tyres subject to customer choice
- bb. Disc wheels refinished as original and refitted and balanced with new correct tyres (& tubes if relevant) subject to customer choice
- cc. Braking system
- dd. Pedal box checked and rebuilt / refinished as required with any new components needed, pedals refinished and return springs replaced
- ee. Brake master cylinder and servo stripped and rebuilt with new seals, before refinishing, replating and testing
- ff. Brake calipers stripped, fully reconditioned and replated before fitting with new pistons and seals
- gg. All brake discs, flexible hoses, fixed brake lines, vacuum hoses, fluid lines and reservoirs replaced with new

17. FIXINGS AND FINISHES

- a. Fixings will be replated wherever serviceable to original finish specification, or replaced
- b. All components will be refinished to original cosmetic specification. Corrosion protection will be increased wherever possible retaining
- c. original appearance

18. FINAL SIGN OFF

- a. 121 point Classic health check completed
- b. Quality sign off process undertaken, "production car" style audit process applied to cosmetic, functional and dynamic assessment
- c. Squeak and rattle test, water test & emission test undertaken as part of the above
- d. Upon completion the car will be subjected to a minimum 200 mile shake down session at a proving ground and on public roads
- e. Final detail, including mop polish and wax
- f. Supply of Restoration Pack including documented restoration process, health check, Service book & test reports where appropriate.

CUSTOMER HANDOVER

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