

# RESTORATION FACTS & PROCEDURES

## Restoration Questions

- How much will it cost?
- Where do I start?
- What order should I work in?
- How long will it take?
- What can I do?
- What should I have done by a professional?
- Which professional shop should I use?
- What is my time worth?
- Do I want a concours car?
- What books and information should I get?

## Restoration Facts

- Many restorations that are started at home are never finished or are finished by someone other than the person who started the project.
- A total restoration will take an experienced mechanic approximately 750 hours to do at home not including paint and body work.
- That's approximately 15 hours per week for one year, not including work done at the body shop.
- The parts only, for a major restoration will cost approximately \$25,000.00 (US as of 1999).
- Body work varies between cars depending on the condition when you start and how good of a job you want when finished.
- Many restorations done at home can take several years to complete.
- A major restoration at home will take up the space of 2-3 cars.

## Restoration Procedures

Do not throw any parts away!

Sweep up thoroughly after each work day and sift through and remove ALL parts before dumping the trash!

1. Take lots of detailed photos before you pull anything apart.

2. Remove engine, transmission, differential and reinstall all ancillary equipment on engine and transmission. Take more photos of engine compartment with engine and transmission removed.
3. Remove complete interior, remove instrument panel complete with all gauges and store all together in one place to be restored at a later date.
4. Remove all electrical equipment and wiring harness, put into one box and put away to be restored at a later date.
5. Remove front suspension and steering from chassis and reassemble off car, put into one box and put away to be restored at a later date.
6. Remove all clutch and brake hydraulic parts, put into one box and put away to restore at a later date.
7. If you are going to do all body work yourself, have chassis sandblasted or acid dipped, then replace all rusted panels as required on chassis and have painted.
8. If you are going to sublet the body work, then you can now get started restoring all the other components to install onto the chassis when it returns from the body shop.
9. Now you must decide what you are qualified to do and what a professional should do.
10. Sublet out what work is beyond your ability.
11. If your pictures are of poor quality because what you took was old, dirty and dingy, we have what you need:

- BN2, 50 picture
- BN4, 75 picture
- BJ7, 90 picture

### **Restoration Time**

Take each individual part and restore. When completed go on to the next.

- Engine
- Transmission
- Rear end
- Front suspension
- Hydraulics
- Electrical

- Interior

### **Reconstruction Time**

1. Get all body work done and fitted temporarily. Remove outer body panels and paint chassis, then start building a driving chassis.
2. Install all hydraulic pipes and master cylinders.
3. Install the rebuilt front suspension and place 1.5" spacer under shock to set ride height.
4. Install main wiring harness and electrical components in engine compartment.
5. Re-cover instrument panel and install.
6. Install all switches and gauges on instrument panel.
7. Install heater assembly.
8. Install engine only and support at rear of oil pan.
9. Install transmission.
10. Install rear end and rear suspension.
11. Install ancillary engine components (radiator, starter, generator, carbs.)
12. Bleed clutch and brake system using Castrol/Girling fluid only.
13. Install exhaust system.
14. Get engine started and road test before installing the remainder of the body.
15. Take car for it's first road test.
16. Repair what problems came up on road test.
17. Install jute padding and carpeting in foot boxes.
18. Lay tar paper on floor, carpet over driveshaft tunnel and install transmission tunnel.
19. Now get the body work completed and painted.

20. While chassis is at body shop you can get the seats ready for when car returns from body shop.

21. Install carpeting, panels and chrome parts.

22. FINAL ROAD TEST

23. Repair the problems that you found on final road test.

24. Take to first car show and enjoy.

25. Never total up how long this project has taken or how much it has cost.

26. This is only a general idea of procedures, due to model and type it could change.