

Restoration Plan

Saturday, December 23, 2023

10:28 AM

Sources:

Walloth Nesch (<https://www.wallothnesch.com/en/>)

Classic Euro Parts (<https://www.classiceuroparts.com>)

CSI (<https://www.bmwclassicparts.com>)

Stefan Reis (<https://shopware.bmw-oldtimerteile.de/en/vehicle-types/e9-2-5-3-0-csil/>)

Oilsdesign (Alvaro Prada) (<https://oilsdesigngroup.com/store/>)

Ireland Engineering (<https://www.iemotorsport.com>)

Coupe King (<https://shop.coupeking.com>)

Madera Concepts (<https://www.maderaconcepts.com>)

San Joaquin Chrome (910 Black Diamond Way, Lodi, CA 95240 [\(209\) 365-9694](tel:2093659694))

Preliminaries

~~New wheels~~

~~New tires~~

~~Find Work Space~~

~~Change wheels~~

~~Spider bomb~~

~~Source TII Booster~~

Carb Fit Check

~~Remove intake manifolds~~

~~Drain coolant~~

~~Remove Thermostat~~

~~Test fit New manifold bucks~~

~~Test fit 85 degree elbows~~

~~Create air filter buck~~

~~Test fit entire carb setup~~

~~Remove new carbs~~

Coupe King

~~Take interior and dash to Coupe King~~

~~Take interior and dash to Coupe King~~

~~Send dash components for renovation (dash, lower pads, glove box (clean, re-skin, re-flock) (Coupe King)~~

Disassembly

~~Remove Interior~~

~~Disassemble doors and window mechanisms~~

~~Remove door internals~~

~~Remove seats~~

~~Remove carpets~~

~~Remove front glass~~

~~Remove back glass~~

~~Remove dash~~

~~Remove heater assembly~~

~~Set up compressor~~

~~Remove radiator~~

~~Remove alternator and PS Pump~~

~~Remove hood latch~~

~~Remove hood wiring and washer tubing~~

~~Remove exhaust~~

~~Remove engine~~

~~Remove trans~~

~~Remove driveline, differential and half shafts~~

~~Remove Brake MC~~

~~Remove PS pump~~

~~Remove front grille~~

~~Remove headlamp grilles~~

~~Remove headlamps~~

~~Remove engine bay sound deadening~~

~~Remove AC Condenser, fan, and hoses~~

~~Remove all trim~~

~~Remove front lights~~

~~Remove front bumper~~

~~Remove fuel door boot~~

~~Remove trunk carpets and linings~~

~~Remove rear lights~~

~~Power wash 14" wheels~~

~~Remove rear seat belts~~

~~-~~

~~Remove rear bumper~~
~~Remove fuel tank~~
~~Remove Brake Booster~~
~~Measure harness and make diagram for skeleton~~
~~Get new cheap tires for 14 inch wheels~~
~~Remove sun visors~~
~~Remove steering column wiring~~
~~Remove Clutch MC~~
~~Remove brake calipers~~
~~Remove parking brake~~
~~Reinstall column and steering wheel~~
~~Remove brake lines~~
~~Remove wiring~~
~~Power wash shell~~
~~Remove upper front belts~~
~~Remove upper seat belt holders~~
~~Remove A pillar trim~~
~~Remove rear brake lines~~
~~Remove fuel line~~
~~Remove grab handles, and rear view mirror~~
~~Paint Headliner~~

Buy:

Vacuum bag system
~~Bead Blast cabinet~~

Storage

~~Reorganize long term storage in back of shop~~
~~Organize and store E9 parts~~
~~Mount engine on stand~~
~~Set up additional shelves~~
Clean Old Engines (drain all coolant)

Dash

~~Order curved dash pieces (TomHom)~~
~~Strip veneer off instrument bezel and side wood~~
Paint instrument bezels (Satin black)
Order vacuum bag system
Fab foam gauge and ashtray inserts
Form veneer on cowl using wood softener to get end curve (no glue)

• Veneer cowl
Veneer cowl
Fab foam presser blocks for curved pieces
Veneer curved pieces
Veneer side pieces
Finish edges
Sand
Varnish (Epifanes gloss 2 coats, followed by rubbed effect 2 coats)

Buy Felt Tape

Clean instruments
Send speedo to Palo Alto Speedo for revamp and calibration
Redo clock to create oil pressure and volt combo gauge

Wiring

Clean, and label all wires (both ends)
Build wire harness board
Create Board labels for bundles and connectors
Label all connectors and wires
Modify harness as necessary (AC, low beam relay, window relay power, electric fuel pump, inertial fuel pump cutoff, etc)
Rewrap harness

Harness production

Revise harness board for 74+ cars Include options for Pre and Post 74
Work out licensing deal with Galahad

Dispose of parts

Clean 4 sp trans and sell
Clean differential and sell

Component Renovation

CV Joints
Soak CV Joints
~~Disassemble and clean~~
Repaint half shafts and CV carriers
Lube and reassemble
Suspension
~~Disassemble front sub frame~~

~~Disassemble struts~~

~~Degrease and power wash front and rear sub frames, and struts~~

~~Disassemble rear sub frame~~

~~Weld on Garagistic brackets (rear)~~

Grind and dress Garagistic plates

Send parts for blasting and powder coating (frames, strut tubes, arms, knuckles and backing plates)

Disassemble front hubs

Clean and paint steering box

Clean and paint steering column

Paint CN suspension parts, etc. (2K Black)

Assess front wheel bearings and collect parts

Assess rear wheel bearings and collect parts

Disassemble rear trailing arms (hubs)

Reassemble front and rear sub frames and struts

Take subframes to Eugene for Reassembly on car

Pedals

Disassemble pedals and pedal box

Blast pedals and pedal box

Paint pedal box and pedals

Drive Line

~~Source 3.45 diff~~

Heater

Send out for renovation

Coolant Reservoir

Strip, polish and Cerakote

Power steering pump

Clean, rebuild and paint

AC

Rebuild AC Evaporator (use fused 3D print ducting)

- Rebuild AC evaporator (use Lucas 3D print ducting)
- Get Sanden AC Compressor, brackets, hoses and components (in June from @Layne)
- Replace expansion valve
- Replace condenser
- Replace Receiver Dryer

Windows

- Renovate window mechanisms
- Rewire using relays
- Examine motors and change out as necessary

Doors

- Renovate door latches and locks

Fuel tank

- Clean and paint

Headers

- Ceramic coat headers (Silver)

Clean and refinish/repaint engine bay parts

- Brake MC
- Clutch MC
- Wiper motor and mechanism
- Alternator (look into changing bracket)
- Brake reservoir (replace)
- Coolant reservoir (clean and polish - brass)
- Clean and paint PS Pump
- Clean and paint clutch MC
- Clean and paint brake MC
- Clean and paint (powder coat??) Pedal Box, steering column and steering box

Glove Box

- Re-flock glove box and related parts
- Paint and check hinge rod

Hood

- Clean and paint hood release lever
- Clean and lube (or replace) hood release cable
- Renovate hood latches

Clean Instrument cluster and all instrument panel components

Replate any chrome bits that need it (San Joaquin Chrome, Lodi)

- Bumpers
- Window sills
- Door latch plates (nickel)

Rebuild brakes (Caliper HQ)

Trim

- Polish all exterior trim
- Renovate or replace outside rocker trim panels

Console

- 3D print console core
- Add front and rear sides
- Cover core with vinyl
- Install trim panels

Dash

- Plug holes in dash
- Re-laminate edges
- Buy or fab new dash bottom panel
- Veneer dash parts

Drive Line

- Get Driveline shortened for 265
- Replace center bearing

Powertrain

- Source flywheel
- Clean Getrag 265
- Clean 5 series bell housing
- Rebuild clutch
- Sort out shift platform and trans mounts

Install HalBoyles shift kit
Install Getrag 265

Re-assembly

Replace Rear brake lines
Replace Fuel Line (modify for electric fuel pump)
Add Roundel drain holes in rear wheel wells
Install sound deadening and insulation
Install wire harness
Install fuel tank
Install engine bay sound deadening
Install pedal box
Install steering box and column
Install AC condenser

Re-bush suspension components
Replace front Wheel Bearings
Paint all non-powder coated suspension parts
Re-assemble subframes
Install CN suspension components
Install engine, and trans on Front Subframe
Install headers on engine
Install alternator, and AC compressor on engine

Install engine and front subframe

Work out Electric Fuel Pump
Install Alpina wheels
Replace AC hoses
Install instrument panel

Install hood latches and latch lever
Install clutch MC
Install brake MC
Replace door seals
Install rear side glass
Re-assemble doors (window mechanisms, latches, window seals, etc.)
Install dash
Install interior

Install interior

Install glass

Install lights and trim

Interior

Replace carpet

Work out Scheel seat mounts

Parts Needed

Guibo

Drive Line (shortened)

Short Shift Kit (Hal Boyles)

3.45 LSD Diff

Heater ducts

Console

Window switches

Stereo

Hardware

Plastic washers

Cable clips

Brake line clips

Relays

Brake Fluid Reservoir

Washer bottle

Distributor

Coil

AC Hoses

Grommets

Brake line kit

Renovated/New Parts Organization

Exterior Trim

Interior Trim

Windows and door latches

HVAC

Dash and Instruments

Harness

Electrical Components