Backlog

- Re-safety trim stop blocks
- Finish door post rivets
- Install gascolator
- Assemble rudder
- Install rudder
- Flush fuel lines
- Install fuel lines
- Install brakes
- Mount a wing for painting
- **Paint wings**
- Install wings
- Register in OR

2026-11-07

Plan

-

Completed

-

2026-10-31

Plan

- Finish door post rivets
- Attach the throttle and mixture to the carb
- Clip cotter pins on the engine mount bolts

Completed

- Started fixing the doors

2026-10-24

Plan

- Finish door post rivets
- Continue assembling the rudder

Completed

- Mounted the mixture control

2026-10-10

Plan

- Fit the hoop to the wing for painting
- Estimate paint needed to finish the wings

Completed

- Fit the hoop to the wing for painting
- Estimate paint needed to finish the wings

2026-10-03

Plan

- Continue fitting up the rudder
- Fit the hoop to the wing for painting
- Estimate paint needed to finish the wings

Completed

- Fitting the hoop to the wing for painting

2026-09-26

Plan

- Continue fitting up the rudder
- Fit the hoop to the wing for painting
- Estimate paint needed to finish the wings

Completed

- Continued drilling rudder parts, nearly ready to assemble

2026-09-19

Plan

- Re-safety trim stop blocks
- Redo the final rivets in the door posts

Completed

- Drilled out the bad rivets from the door post

- Continued fitting up the rudder, making good progress

2026-09-12

Plan

- Re-safety trim stop blocks
- Continue putting the rudder back together

Completed

- Figured out where the new throttle cable goes and mounted it after the roller bearings in the tension adjustment fell out.
- Started putting the new-new skin on the rudder

2026-09-05

Plan

- Re-safety trim stop blocks
- Start putting the rudder back together

Completed

- Start putting the rudder back together

2026-08-29

Plan

- Re-safety trim stop blocks
- Prep the airbox
- Start fixing the rudder

Completed

- Fixed carburetor safety wire
- Took the rudder apart
- Mounted the yokes
- Tore down and cleaned the airbox

2026-08-15

Plan

- Re-safety trim stop blocks
- Finish the door post rivets

Completed

- Sick day

2026-08-08

Plan

- Torque and safety the nuts holding the carburetor on
- Build seals and check the exhaust system for leaks
- Re-safety trim stop blocks
- Check the condition of the air box

Completed

- Torque and safety the nuts holding the carburetor on (Whew! What a journey that was.)
- Build seals and check the exhaust system for leaks
- Started to look at the airbox, we at least need a new filter element

2026-08-01

Plan

- Check for leaks in the exhaust system
- Mount the carburetor
- Re-safety trim stop blocks

Completed

- Mount the carburetor, what a hassle! Still need to torque and safety the nuts.
- Started building seals to check the exhaust system for leaks

2026-07-25

Plan

- Re-safety trim stop blocks
- Pull off exhaust shrouds and check for leaks
- Mount the carburetor

Completed

- Pulled the exhaust shrouds off and inspected for cracks, still need to work up gaskets and soap spray to check for leaks
- Determined the hardware needed to mount the carburetor

2026-07-18

Plan

- Mount the engine
- Re-safety trim stop blocks

Completed

- Mount the engine

2026-07-11

Plan

- Redo some door post rivets
- Mount the engine

Completed

- Remove the safety wire from the trim cable stop blocks and remove the twist. Now just need to re-safety.
- Bleeding the CherryMax puller, which now pulls 3/16 diameter rivets like a champ: https://youtube.com/shorts/3XxjmwujHjg

2026-07-04

Plan

- Finish attaching the elevator
- Mount the rudder
- Attempt some door post rivets
- Drill engine mount bolts
- Mount the engine

Completed

- Finished attaching the elevator
- Test fit the rudder and discovered some modification will be needed
- Gathered engine mount hardware and drilled safety wire holes in the bolts

2026-06-27

Plan

- Attempt some door post rivets
- Mount the rudder

Completed

- After a bit of practice, we got 4 of the 6 door post rivets in and good, with a couple that are stubborn still to redo.
- We got all the engine mount hardware ready, and practiced drilling on an old bolt before we drill the real ones.
- We started hooking up the elevator control cables before mounting the rudder as it looks like they will be difficult to access. We decided I still need to fabricate an appropriate bushing for one of the ends of the horn.

2026-06-20

Plan

- Attempt some door post rivets
- Finish installing spar carry through blocks
- Mount the rudder
- Mount the elevator
- Install the gascolator

Completed

- Finished installing the bolts in the spar carry through blocks
- Assembled and mounted the elevator

2026-06-13

Plan

- Mount the vertical stabilizer
- Mount and time magnetos on the engine
- Mount the starter on the engine
- Install spar carry through blocks

Completed

- Mount the vertical stabilizer
- Mount and time magnetos on the engine
- Mount the starter on the engine
- Mostly installed spar carry through blocks, need a couple more bolts

2026-05-30

Plan

- Mount the vertical stabilizer
- Mount alternator on the engine
- Mount and time magnetos on the engine
- Mount the starter on the engine
- Install spar carry through blocks

Completed

- Mounted the alternator on the engine
- Riveted in the windscreen
- Prepped the spar carry-through blocks for installation

2026-05-23

Plan

- Install accessories on the engine
- Install tail feathers
- Rivet in the windshield

Completed

- Mounted the gear on the alternator
- Installed the horizontal stabilizer
- Installed the elevator trim cable in the stabilizer
- Installed the elevator trim wheel

2026-05-16

Plan

- Install gascolator
- Install tail feathers
- Install windshield

2026-05-10 (Sunday)

Plan

- Finish door post rivets
- Install fuel lines
- Install engine accessories on the engine
- Mount the tail feathers

2026-05-03 (Sunday)

Plan

- Finish riveting the gear box cover (the last of the riveting)
- Install the elevator trim cables

Completed

- Almost finished riveting the gear box cover (the last of the riveting)

- Installed the elevator trim cable

2026-05-02

Plan

- Finish riveting the gear box cover (the last of the riveting)
- Install the elevator trim cables
- Clean and install fuel lines
- Start installing accessories on the engine

Completed

- Clean fuel lines

2026-04-29

- Finish installing the shoulder belt STC
- Finish seat pan center rivets

2026-04-25

Plan

- Finish riveting the gear box cover
- Install shoulder belt STC on carry-through spar

Completed

- Some seat-pan rivets
- Brackets for the seat belts ready to mount

2026-04-18

Plan

- Rivet the gear box cover (the last of the rivetting)
- Mount the engine (!)
- Install the elevator trim cables (after finishing up the stop blocks)
- Start installing the tail feathers
- Install shoulder belt STC on carry-through spar

Completed

- Continued riveting the gear box cover, only a few rivets left!
- Finished the wear tunnels and safety wiring on the stop blocks on the elevator trim cables
- Fabricated a strap from gear box bulkhead to door post

2026-04-15

- Pictures of replaced rivet on horizontal stabilizer
- Decide on wing color

2026-04-11

Plan

- Install the gear box cover
- Install the seat pan
- Install the elevator trim cables
- Install the tail feathers

Completed

- Re-installed the seat pan (only a couple rivets left)
- Started installing the gear box cover
- Pressed in the new rudder bushings
- Fixed some safety wiring on the fuel selector
- Replaced a loose rivet in the horizontal stabilizer

2026-04-08

- Drill the front rivets out of the seat pan

2026-04-04

Plan

- Finish installing the windshield
- Safety wire the fuel selector bolts
- Safety wire the guide blocks on the elevator trim cable
- Start installing the seat pan
- Attach fuel selector to the gear box cover
- Install the elevator trim cable

Completed

- Safety wire the fuel selector bolts
- Safety wire the guide blocks on the elevator trim cable
- Start installing the seat pan

2026-04-01

- Finished assembling the fuel selector
- Swapped the stop blocks over to the new elevator trim cables
- Installed the yoke gimbals in the dashboard

2026-03-28

Plan

- Finish installing the windshield
- Finish installing seat belt brackets for the center belt STC
- Start installing the seat pan
- Finish assembling the fuel selector and attach to the gear box cover

Completed

- Felted the edges of the windshield
- Finished riveting in the center seat belt brackets
- Installed the elevator trim pulleys on the seat pan

2026-03-25

- Reverse the long double-pulley bolt in the control tee and move the washers.

2026-03-21

Plan

- Finish installing the windshield
- Layout and install seat belt brackets for the center belt STC
- Install the seat pan
- Install the gear box cover
- Install control cable, pulleys, and chain on the control tee

Completed

- Laid out and started installing seat belt brackets for the center belt STC
- Install control cable, pulleys, and chain on the control tee
- Started assembling the new fuel selector

2026-03-14

Plan

- Fit and trim the windshield
- Torque the pulley bolts (maybe flip one elevator bolt)
- Install gearbox cover
- Install seat belt brackets for the STC
- Install seat pan

Completed

- Fit and trim the windshield (probably ready to wrap in felt and mount next week)
- Torqued all the pulley bolts after flipping one elevator bolt

- Mounted a shelf in the hangar above the workbenches on the South wall
- Sandbagged the tailwheel cart so we can safely mount the engine
- Mounted the control tee and attached the elevator link arm
- Mounted the last two aileron pulleys at the base of the control tee

2026-03-07

Plan

- Install aileron cables
- Finish installing the elevator cable pulleys
- Test fit and trim the windshield

Completed

- Installed the aileron cables
- Riveted the unused flap handle cover on the seat pan
- Finished installing the cable pulleys
- Started trimming and fitting the windshield

2026-02-28

Plan

- Install the new battery box
- Install control cables and pulleys

Completed

- Repaired the luggage floor attachment to the stringer
- Installed the new battery box
- Test fit the windshield (good so far, start trimming next week)
- Installed elevator control cables and pulleys (mostly)
- Installed rudder control cables and pulleys

2026-02-21

Plan

- Test fit the windshield
- Rivet in the windshield backstop
- Rivet in the skylights
- Re-install the gear legs
- Remove the old battery box bracket
- Install the new battery box

Completed

- Test fit the windshield
- Rivet in the windshield backstop

- Rivet in the skylights
- Re-install the gear legs
- Remove the old battery box bracket

2026-02-16

Completed

- Last roof rivets

2026-02-14

Plan

- Finish riveting on the roof
- Re-install the gear legs
- Remove the old battery box bracket

Completed

- Finish riveting on the roof (almost)
- Cleaned out

2026-02-07

Plan

- Rivet on the roof
- Install the gear legs
- Remove the old battery box bracket
- Install the new battery box
- Install some control cables and pulleys

Completed

- Rivet on the roof

2026-01-31

Plan

- Rivet the left door post to the carry-through spar
- Rivet in the floorboards
- Inventory control cable parts
- Install some control cables and pulleys
- Install the new battery box

Completed

- Finished riveting in the left door post!
- Finished riveting in the floorboards
- Test fit the new roof
- Finished match drilling the roof
- Installed wing root rib patches under the roof

2026-01-24

Plan

- Rivet the left door post to the carry-through spar
- Rivet in the floorboards
- Inventory control cable parts
- Install some control cables and pulleys
- Clean inside the fuselage under the baggage area

Completed

- Finished the inventory of control cable parts
- Patches fabricated for the cabin root ribs, ready for mounting the roof
- Rivet in the floorboards, only a few rivets left
- Cleaned out most of the rest of the gunk under the baggage area
- Ran battery, master solenoid, and tail light wires under the baggage area

2026-01-17

Plan

- Rivet the left door post to the carry-through spar
- Rivet in the floorboards
- Rivet on the roof
- Inventory control cable parts
- Install some control cables and pulleys
- Clean inside the fuselage under the baggage area

Completed

- Rivet the left door post to the carry-through spar

2026-01-10

Plan

- Rivet the left door post to the carry-through spar
- Rivet in the floorboards
- Rivet on the roof (if I get it done on time)
- Inventory control cables and pulleys
- Install some control cables and pulleys

- Clean inside the fuselage under the baggage area

Completed

- Determined we don't have the tools to easily squeeze the big carry-through spar rivets at the top of the door post, but we can do it. We'll try to use the pneumatic squeezer with a new adjustable ram.
- Inventoried the last of the elevator control cable parts and all the rudder control cable parts. We got all the finicky "links" together with clevis bolts.
- Ran tail light and master solenoid wire through the floorboard area. We're ready to rivet in the other floorboard!
- Spent more time cleaning out grime under the luggage area. That tarry stuff is hard to move.

2026-01-04 (Sunday)

Plan

- Clean up, etch, and alodine the inside of the carry-through spars
- Redo some rivets in the floorboards
- Inventory control cables and pulleys
- Install control cables and pulleys

Completed

- Cleaned up the inside of the carry-through spars, ready for big rivets
- Redid some rivets in the floorboards and gear leg shroud
- Replaced bolts and added missing cotter pins in rudder pedals
- Inventory control cables and pulleys
- Interior cleaning

2025-12-27

Plan

- Riveting the replacement left door post
- Clean up, etch, and alodine the inside of the carry-through spars
- Install brake lines
- Inventory control cables and pulleys
- Install control cables and pulleys

Completed

- More rivets in the left door post
- Cleaned up the roof and carry-through spars
- Started installing brake lines
- Started installing the engine mount
- Riveted in the right floorboard

2025-12-20

Plan

- Riveting the replacement left door post (still a few rivets to do and re-do)
- Install brake lines
- Inventory control cables and pulleys
- Install control cables and pulleys

Completed

- Finished cleaning out the rivets from the roof removal
- Cleaned carry-through spar channels, etch and alodine next week
- Test fit the brake lines
- Did a few more left door post rivets

2025-12-13

Plan

- Work on riveting the replacement left door post
- Install brake lines
- Inventory control cables and pulleys
- Install control cables and pulleys

Completed

- Rudder pedals secured with cotter pins to master cylinders with one new shaft
- Roof panel removed (Ready for a replacement to be fabricated)
- Cleaning grime out of the baggage compartment

2025-12-06

Plan

- Work on riveting the replacement left door post
- Finish installing the rudder pedals
- Clean up the install of the patch in the ceiling
- Install brake lines
- Install control cables and pulleys

Completed

- Finished installing rudder pedals
- Worked on riveting the replacement left door post
- Inventory of elevator cable parts

2025-11-29

Plan

- Work on putting in the replacement left door post
- Install the rudder pedals
- Install the patch for the ceiling
- Install brake lines
- Install control cables and pulleys

Completed

- Worked on putting in the replacement left door post
- **Finished** installing the patch for the ceiling

2025-11-22

Plan

- Work on putting in the replacement left door post
- Install the rudder pedals
- Install the patch for the ceiling

Completed

- Work on putting in the replacement left door post
- Worked on installing the patch for the ceiling

2025-11-15

Plan

- Work on putting in the replacement left door post
- Clean out the area under the floorboards and seat pan
- Install the rudder pedals
- Install a patch for the ceiling where the old beacon was installed

Completed

- Worked on putting in the replacement left door post with a replacement tab for the lower door sill.
- Started installing the rudder pedals.
- Installed the doubler for the patch for the ceiling and got the patch ready to install.

2025-11-01

Plan

- Work on putting in the replacement left door post

- Clean out the area under the floorboards and seat pan
- Install a patch for the ceiling where the old beacon was installed

Completed

-

2025-10-25

Plan

- Work on putting in the replacement left door post
- Clean out the area under the floorboards
- Install a patch for the ceiling where the old beacon was installed

Completed

- Work on putting in the replacement left door post
- Installing a patch for the ceiling where the old beacon was installed

2025-10-18

Plan

- Work on putting in the replacement left door post
- Clean out the area under the floorboards
- Install a patch for the ceiling where the old beacon was installed

Completed

- Work on putting in the replacement left door post

2025-10-11

Plan

- Work on putting in the replacement left door post
- Clean out the area under the floorboards
- Install a patch for the ceiling where the old beacon was installed

Completed

- Work on putting in the replacement left door post
- Started installing a patch for the ceiling where the old beacon was installed

2025-10-04

Plan

- Work on putting in the replacement left door post
- Clean out the area under the floorboards
- Working up a patch for the ceiling where the old beacon was installed

Completed

- Work on putting in the replacement left door post
- Clean out the area under the floorboards
- Working up a patch for the ceiling where the old beacon was installed

2025-09-20

Plan

- Work on putting in the replacement left door post
- Clean out the area under the floorboards
- Measure the roof for replacement

Completed

- Get the doubler plate on the door post!
- Door post in place and mostly cleco-ed in
- Cleaned out a bunch more gunk.

2025-09-13

Plan

- Bend new brake lines for replacement while the gear legs are off
- Work on putting in the replacement left door post if I can get the parts ready in time
- Cleaning out the area under the floorboards

Completed

- Tested brake lines
- Cleaning out the area under the floorboards
- Drilled one of the doubler-plates for the door post

2025-09-06

Plan

- Work on putting in the replacement left door post

Completed

- Removed the floorboards and started cleaning

2025-08-30

Plan

- Evaluate with IA
- Work on putting in the replacement left door post
- Check the brake lines for replacement while the gear legs are off
- Make a plan for the next steps of the restoration

Completed

- Evaluate with IA
- Make a plan for the next steps of the restoration

2025-08-24

Plan

- Clean grime out of the gear box
- Clean grime out from under where the seat pan was

Completed

- Clean grime out of the gear box
- Clean grime out from under where the seat pan was

2025-08-16

Plan

- Start riveting in the replacement door post
- Check the break lines for replacement while the gear legs are off
- Make a plan for the next steps of the restoration

Completed

- Made a test piece and tried out the double flush riveting
- Cleaning inside the gear box and under the seat pan

2025-08-09

Plan

- Finish removing the left door post for replacement (only a few rivets left!)

- Start putting in the replacement door post
- Make a plan for the next steps of the restoration

Completed

- Got the scrap door post out
- Started putting the new door post in

2025-08-02

Plan

- Finish removing the left door post
- Make a plan for restoring the doors and door windows

Completed

- Continued removing the left door post

2025-07-26

Plan

- Remove the left door post
- Clean grime out of the gear box
- Clean grime out from under where the seat pan was

Completed

- Removed rivets from the left door post
- Removed remaining rivets from the windshield retainer and cleaned the glareshield

2025-07-19

Plan

- Rivet in the stringer
- Remove the left door post

Completed

- Riveted in the top center engine mount stringer
- Continued to remove the left door post
- Cleaned grime out of the gear box
- Cleaned grime out from under where the seat pan was

2025-07-12

Plan

- Install the new stringer channel
- Tighten the wing cart slings
- Remove the left door post

Completed

- Drilled and readied the stringer for riveting
- Checked the wing cart slings (no changes needed)
- Continued removing the left door post

2025-06-28

Plan

- Rivet the engine mount bracket to the new stringer channel
- Paint and install the new stringer channel
- Tighten the wing cart slings

Completed

- Rivet the engine mount bracket to the new stringer channel
- Painted the new stringer channel
- Replaced some firewall rivets
- Cleaned up the gear legs

2025-06-21

Plan

- Rivet the engine mount bracket to the new stringer channel
- Paint and install the new stringer channel
- Tighten the wing cart slings
- Mount fuselage to cart
- Remove gear legs
- Clean grime out of the gear box
- Clean grime out from under where the seat pan was

Completed

- Mount fuselage to cart
- Remove gear legs
- Clean grime out from under where the seat pan was
- Attempting to rivet the engine mount bracket to the new stringer channel

2025-06-07

Plan

- Rivet the engine mount bracket to the new stringer channel
- Paint and install the new stringer channel
- De-rivet gear box cover
- Clean grime out from under where the seat pan was

Completed

- De-rivet gear box cover

2025-05-31

Plan

- Moving wings, engine, and prop from Riedener’s hanger to G1
- Rivet the engine mount bracket to the new stringer channel
- Paint and install the new stringer channel
- De-rivet gear box cover
- Clean grime out from under where the seat pan was

Completed

- Moved wings, engine, and prop to G1
- Continued to de-rivet gear box cover

2025-05-24

Plan

- Retrieve everything else from Riedener’s hanger
- Drill out rivets from the gear box cover
- Install the new stringer channel

Completed

- Match drilled holes in the new stringer channel for the top center engine mount, should install it next week.
- Moved everything except the engine and wings from Reidener’s hangar
- Cleaned grime out from under where the seat pan was

2025-05-10

Plan

- Bend stringer channel with Tim Mix

Completed

- Bent stringer channel with Tim Mix
- Started drilling out rivets from the cover over the gear box

2025-05-03

Plan

- Move parts from Riedener’s hanger to G1
- De-rivet seat pan
- Mount fuselage to cart
- Remove gear legs
- Review hardware for control cables and pulleys and make a list of needed hardware for cable and pulley install

Completed

- Move parts from Riedener’s hanger to G1
- De-rivet seat pan

2025-04-12

Plan

- Measure press brake for needed radius bending parts
- Review hardware for control cables and pulleys and make a list of needed hardware for cable and pulley install
- Install any control cables we have all the parts for

Completed

- Test bend for stringer channel
- Started inventory of control cable parts
- Measured press brake for 3D printing radius tooling

2025-04-06 Sunday

Plan

- Attempt bending some stringers
- Dimensions from seat belt attachments to fabricate new ones for center-belt STC
- Review hardware for control cables and pulleys
    - Make a list of needed hardware for cable and pulley install

Completed

- Practiced bending some stringers
- Dimensions from seat belt attachments

2025-03-29

Plan

- Retrieve and sort small parts from Reidener's hangar J-7
- Review hardware for control cables and pulleys
    - Make a list of needed hardware for cable and pulley install
- Dimensions from removed center stringer to fabricate a new one
    - 0.04 inch thick
- Dimensions from seat belt attachments to fabricate new ones for center-belt STC

Completed

- Retrieved and sort some parts from Reidener's hangar
- Reviewed hardware for control cables and pulleys
- Measured and discussed approaches to fabricating top center stringer

2025-03-22

Plan

- Disconnect the control cables from the elevator control horn and any remaining pulleys
- De-rivet panel around center belt anchor for belt anchor replacement
    - Consider de-riveting seat pan
- Install new control cables and pulleys

Completed

- Disconnect the control cables from the elevator control horn and any remaining pulleys
- De-rivet panel around center belt anchor
- Gears from old magnetos removed and ready to mount on new magnetos

2025-03-15 Saturday

Plan

- Finish drilling out the rivets on the top center engine stringer to eventually replace it (the angle bracket has significant granular corrosion)
- Catalog and remove control cable pulleys to replace control cables
- Drill out seat pan rivets (alternately just de-rivet panel around center belt anchor for belt anchor replacement)

Completed

- Drilling out the rivets on the engine stringer, ready to be replaced!
- Removing most of the control cables and pulleys

2025-01-11 Saturday

- Clean interior of flight deck under foot pedals

2025-01-05 (Sunday)

- Primer on engine mount
- Continued to clean exterior of fuselage

2024-12-28

- Continue to scrape and clean out interior of fuselage
- Clean tail feathers

2024-12-21

- Retrieve feathers from J7
    - done
- Pull gear off current generator to evaluate for use on a new alternator
    - Shaft is 15/32
- Continue to scrape and clean out interior of fuselage
- Patterns from the wing root fairings (measure material)
    - 0.0275 thick sheet
- Measure length of rubber channel needed for rear wing root fairings
    - 27” U + 22” Y for rear
    - 14” Y front
- Polish exterior of fuselage
    - Inventory what is in the box
    - Took pictures
- Measure bolts for steps x4
    - ¾” grip
    - 3/16 AN3
- Window frames
    - L-channel
        - 1/16 thick
        - ½ inch each leaf

2024-12-14

- Inventory of old linings
    - Doors
    - Baggage curtain
    - Baggage curtain sides
- Talk to A&P (Justin) about next steps
    - Clean and paint engine mount attachment points
- Traced holes for patches

Goal: Complete the restoration of Cessna 120 N72622 to airworthy condition.

Outstanding questions

- How to set the 6 diameter rivets in the door posts

Fuselage

Roof

46 inches wide, 34 3/4 inches long, 0.032 inches thick

Plan

- Cut raw sheet to square dimensions
- Tape raw sheet roughly to MDF
- Tape original sheet roughly in position
- Match drill and cleco

From Tim Mix:

- Place the clean metal on the MDF and then
- place the old sheet down on it, doesn't matter what side.
- Use something heavy like sand bag or heavy bar steel to hold sheet down until you
- get it drilled and clecoed to MDF, if you drill the holes deep enough the clecos will hold fine.
- Also don't drill the holes that are not necessary or are larger, put tape on them.
- If you have a shear you can cut edges with that otherwise use a die grinder and cut off wheel, don't use hand shears it'll leave little "rises" at each place you reset the shears to cut.
- Once everything is clecoed down, use a scribe to mark the skylight out line and edge that need to be trimmed.

Left front door post

Reference: [Steve's doorpost crack repair documentation project]

Gear legs

26-6 NAS147-59 Bolt x2
26-7 NAS143-7C Washer x2

- Shim washers
    - AN960-416 - should have 5
    - AN960-416L - should have 5

26-8 22FL720 Nut x2

- AN365-720 nyloc equivalent

Controls

Aileron

Tasks

- Install cables

Notes

-

Elevator trim

Tasks

- Inventory all hardware needed for install
- Install cables

Notes

- 1x Turnbuckle barrel - AN155-8S (ordered)

Elevator

Tasks

- Install cables
- Install bushings

Notes

- 2x Turnbuckle barrels AN155-32S (ordered)
- AN115 Cable Shackles

Rudder

Tasks

- Install cables
- Install bushings

Notes

- 50-1
  - 2x Fork - Turnbuckle AN161-22RS (ordered)
- 50-2
  - 1x Barrel - Turnbuckle - left - AN155-32S (ordered)
  - 1x Barrel - Turnbuckle - AN155-32L (ordered)
- Replacement rudder pedal bushing bolts need to be longer AN3-16A

Cowling

Tasks

- Choose
  1. Fabricate patches on cowling
  2. Replace cowling
- Find and order MS hinge

Notes

- Fabricate patches on cowling
    - 0.0265” thick?
- Cowling piano hinge replacement
    - ⅝” leaves from center (½” leaf without hinge)
    - 3/32” pin
    - 0.035” thick
    - 21” long

Belts

Tasks

- Install STC for center belt attachment replacement
    - Fabricated additional belt attachments
        - ⅜” OD, ¼” ID bushing stock from Spruce
        - AN 3-25A bolt
        - AN 365 nut
        - Existing bushing: ⅜” diameter, 0.065” wall, 2 3/16” long
- Re-riveted side belt brackets
    - 3x AN 456AD5
    - Other rivets 5x AN AD4

Notes

- STC from Lowe Aviation for center belt attachment (STC SA03170AT)
- Acquired Hooker Harness with STC

Brakes

Tasks

- Install calipers
- Install soft lines
- Install master cylinders
- Fill and bleed

Notes

Brake soft lines, p46 (p77) Figure 24

- 2x soft lines from master cylinders to the hard lines going to the landing legs
    - part 24-6 AN6260-4D-10 (alt. AN859-4D-10)
- 2x soft line at the wheels, for Cleveland
    - MS28741-4-0091
    - A1087 PT 2-87

Doors

Tasks

- Assess and disassemble duplicate doors
- Repair latches
    - New springs
    - Replace long strap for handle
    - Replace inner panel plate that cracked

Engine

Status

Magnetos **Ready to install**
Generator/Alternator **Ready to install**
Carburetor **Ready to install**
Starter **Ready to install**

Tasks

Notes

4301 magnetos
ER14-50 alternator
B&C Starter BC320-1

Instruments

Notes

Airspeed: **Ready to install**, refurbished by AQI
Turn coordinator: Needs to be replaced, consider electric
Compass: Needs to be refurbished or replaced
Altimeter: **Ready to install**, refurbished by AQI
Climb indicator: **Ready to install**, purchased used from AQI (old had radium markings)
Amperage: Needs to be replaced

- Stewart Warner. PN 82311 0-60 amp

Oil temperature: Needs to be tested and refurbished
RPM: Needs to be refurbished or replaced
Oil pressure: Needs to be refurbished or replaced

Fuel tank gauge

- Eric Romstadt, FaceBook C120/140 Club has several
- Some on eBay, Scott Aerogauge Fuel Gauge P/N A-21-2216
- Consider from Spruce https://www.aircraftspruce.com/catalog/inpages/mech_fuel_gauge.php?clickkey=36217

Avionics

- Transponder
    - Apero?
    - GTX 335

- ELT
  - ACK E04
  - Artex?
- Antennas
  - CI-121
  - CI-122
- Comm Radio
  - GTR 205
  - Flightcom 2SX

Instrument panel insert

Status: **Ready to install**

Notes

Model of the existing panel insert
https://cad.onshape.com/documents/da2819de49e820b1bb75d3ca/w/71f9e613f692457a7bde3110/e/e293b57958aed639f67f1268

Interior

Tasks

-

Notes

Seat covers and linings
- Talk to Mandy Schmitt
- Parts list
  - Left door panel (part 30-25, we have the old one)
  - Right door panel (part 30-40, we have the old one)
  - Baggage curtain (we have the old one, but it doesn't seem to match anything in the catalog)
  - Baggage curtain sides (have these, but can't find these in the parts catalog)
  - Firewall blanket (part 40-18?, we don't have this)
  - Headliner (39-4, we don't have this)
- Trace old linings
- Airtex sells these https://www.airtexinteriors.com/

Wings

Paint

Tasks

- Make rotator hoop
- Acquire paint
-

Root fairings

Tasks

- **Measure thickness**
- **Create a pattern from the right wing root fairing (two parts)**
- Fabricate the left hand fairing parts
    - Left (make these)
        - Left forward 2-35 0420006
        - Left rear 2-36 0420009
    - Right (have these)
        - Right rear 6-33 0420009-1
        - Right forward 6-35 0420006-1

Wiring

Use the chart in figure 11-3 in AC43.13

Starter

14 feet long (166 inches), 4 AWG, M22759/16-4-9 https://www.aircraftspruce.com/catalog/elpages/unshieldlwire.php

Master solenoid

SKY-TEC STS-M12
12ft 16ga

Tail light

20ft 18ga

Ref

- https://www.cessna120140.com/Forum2018/viewtopic.php?f=7&t=448&p=4340&hilit=starter+cable#p4340
- https://n140tw.blogspot.com/2014/03/electrical-loads-wiring.html

Official

- Register in OR https://www.oregon.gov/aviation/Pages/HOME/Registration-Renewal.aspx

Grommets

Figure 17 - Fuselage Front Section

17-4 AN931-6-10 x1 - right door post and glare shield intersection

17-28 AN931-3-5 x1 - firewall
17-29 AN931-4-7 x1 - firewall
17-30 AN931-4-16 x3 - firewall

Figure 18 - Front Section Bulkhead

18-26 AN931-7-11 x2 - fore gearbox bulkhead, battery cable

Figure 22 - Fuselage Center Section

22-14 AN931-3-5 x1 - root rib above door frame

Figure 23 - Fuselage Aft Section

23-18 AN931-7-11 x1 - baggage forward bulkhead, left side, battery?
23-20 AN931-3-5 x1 - baggage floor
23-22 AN931-6-10 x1 - tail light wire
23-44 AN931-3-5 x1 - battery box -1 bulkhead, tail light wire?
23-66 AN931-3-5 x2 - tail light wire at the tail bulkhead

- Details about this aircraft
  - 1946 Cessna 120
    - S/N: 9798
    - N72622
  - Continental C85-12F
    - Carburetor Stromberg NA-S3A1 S/N: 2221
  - McCauley Met-L-Prop 1A90 CF 7149 (71” diameter, 49” pitch)
  - Airframe total time: 2168 hours (tachometer)

- Project folder Cessna 120
- Cessna 120 Electrical System
- Todo (2023) Cessna 120 To Do 2024-11-18
  - Original Cessna 120 To Do.docx
- Parts needed (2024) C120 parts needed 2024-11-18
  - Original C120 parts needed.docx
- Parts index 120 parts index.pdf
- Presentation (2024) C120 Project Updated.pptx
- Airworthiness Airworthiness.pdf
- C120 Airworthiness and tag.pdf
- Registration Registration.pdf
- Prop measurements McCauley Prop Check.pdf
- History Cessna 120 Project Documents.docx

- Full photo album
- Auction photo album
- Cessna 140 rebirth
- New baffles https://www.mcfarlaneaviation.com/family/airforms/