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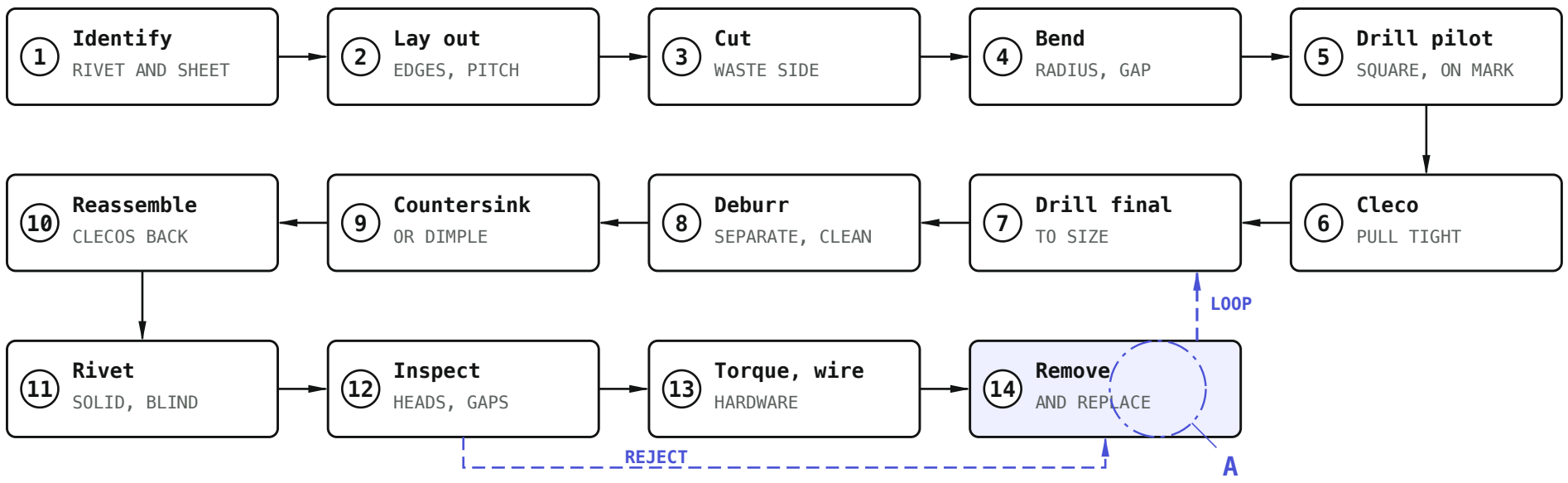
Workflow Overview: From Sheet to Riveted Joint

Fourteen stations · key checks · rework loop

REFERENCE DRAWING — NOT APPROVED DATA · THE SRM ALWAYS GOVERNS

FLOW

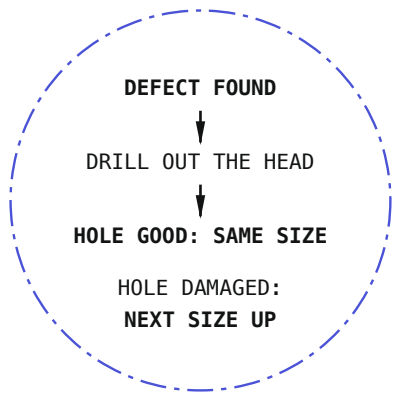
SHEET TO RIVETED JOINT



BEFORE ANY STATION: SHOP SAFETY. GLASSES ON, HEARING PROTECTION AT THE RIVET GUN.

DETAIL A

THE REWORK LOOP



STATION LIST

#	STATION	PAGE	KEY CHECK	SOURCE
1	Identify	02	Alloy, head, D and L as drawn	H-8083-31B p. 4-31
2	Lay out	03	ED, pitch, grain, bend lines	H-8083-31B p. 4-33
3	Cut	04	Edge smooth, no nicks	H-8083-31B p. 4-9
4	Bend	05	Radius as drawn, no cracks	H-8083-31B p. 4-69
5	Drill pilot	06	Square to the work	H-8083-31B p. 4-40
6	Cleco	07	Sheets pulled tight	H-8083-31B p. 4-29
7	Drill final	06	Round, to size	H-8083-31B p. 4-40
8	Deburr	08	No burr, no chips between	H-8083-31B p. 4-40
9	Countersink	09, 10	Head flush, no knife edge	H-8083-31B ch. 4
10	Reassemble	07	Same holes, same order	H-8083-31B p. 4-29
11	Rivet	11-13	Shop head to the gauge	H-8083-31B ch. 4
12	Inspect	11	Heads, gaps, sheet	AC 43.13-1B ch. 4
13	Torque, wire	14, 15	Value and direction	AC 43.13-1B ch. 7
14	Remove	16	Hole not enlarged	AC 43.13-1B ch. 4

NOTES

1. Dimensions in inches. Do not scale: the SRM sets the values.
2. For reference. The applicable manual always governs.
3. Based on FAA-H-8083-31B ch. 4.

REVISIONS

REV	DESCRIPTION	YEAR
A	First issue	2026

The Aviation Point. Structural repair reference

TITLE			
Process map			
DRAWING NO.	REV	SCALE	SHEET
TAP-DWG-120	A · 2026	NTS	1 OF 1
APPLIES TO			
Sheet metal bench work			

DO NOT SCALE DRAWING

The fourteen stations in the order of the work. A rejected rivet goes round the loop: drill it out, same size if the hole is good, next size up if it is not.

Key points

- **Drawing or SRM first.** It sets rivet, spacing and order.
- **Pilot, cleco, then final size.**
- **Bad rivet: drill it out**, same size if the hole is good, next size up if not.

Step by step

1. Safety first: glasses, hearing protection.
2. Identify, lay out, cut, bend.
3. Drill pilot, cleco, drill final, deburr.
4. Countersink or dimple, reassemble, rivet.
5. Inspect, torque and wire, remove and replace.

SOURCES · FAA-H-8083-31B, Aviation Maintenance Technician Handbook: Airframe, Chapter 4 · FAA AC 43.13-1B CHG 1, Acceptable Methods, Techniques and Practices

SCAN · OPEN THIS GUIDE
theaviationpoint.com/standard-practices/workflow-overview/

Educational reference only, not approved data. Always consult the applicable SRM, AMM, or AC 43.13-1B and your certifying authority.