

# Bracketeering

*(BMAC Tech Tips)*

By Lenny Spall

Nice looking bike..!





Zooming in...

A close-up photograph of a motorcycle's bracket assembly. A red circle highlights a specific component, which appears to be a bracket or a mounting point. The surrounding area shows various mechanical parts, including what looks like a footpeg and some wiring. The background is a light-colored, textured surface, possibly a workbench or a protective mat.

**Ugly bracket!**

A close-up photograph of the front end of a motorcycle. The image shows a highly polished chrome headlight, handlebars, and various mechanical components. The lighting is bright, creating strong reflections on the chrome surfaces. The overall appearance is clean and well-maintained.

**Look at this!**

**Purpose:** to support or attach components, instrumentation & splash protection.



# 5052-H32 Aluminum Specifications

- Properties are good workability (useful in forming operations)
- Good corrosion resistance, especially to salt water and fuel & oil lines
- High fatigue strength and withstands excessive vibrations
- Has the best welding characteristics of all the aluminums
- Widely used for storage tanks, truck/trailer components, electronic chassis, etc. and parts requiring strength and good formability at reasonable cost.

***Frank uses 0.063" (~\$3.50 per sq ft) and 0.09" (~\$6.30 per sq ft) Aluminum sheets***

# Bracket Fabrication & Fasteners

*Weld*



*Rivet*



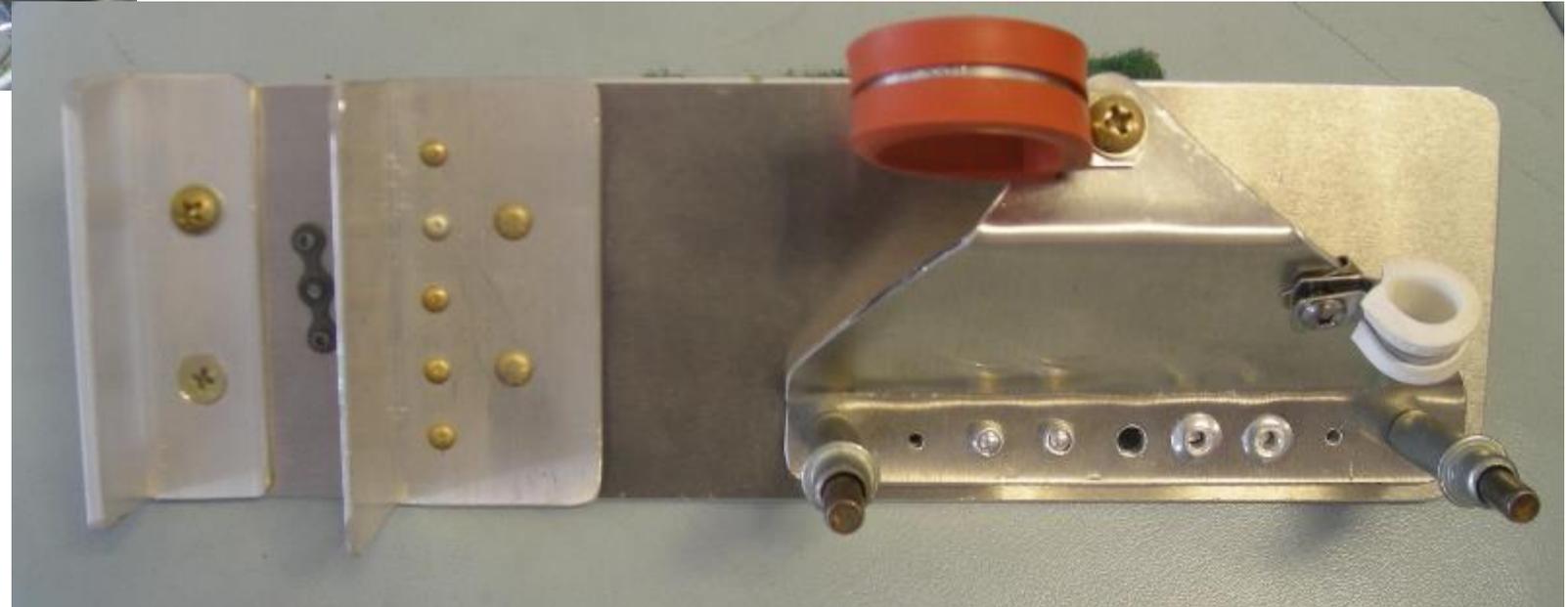
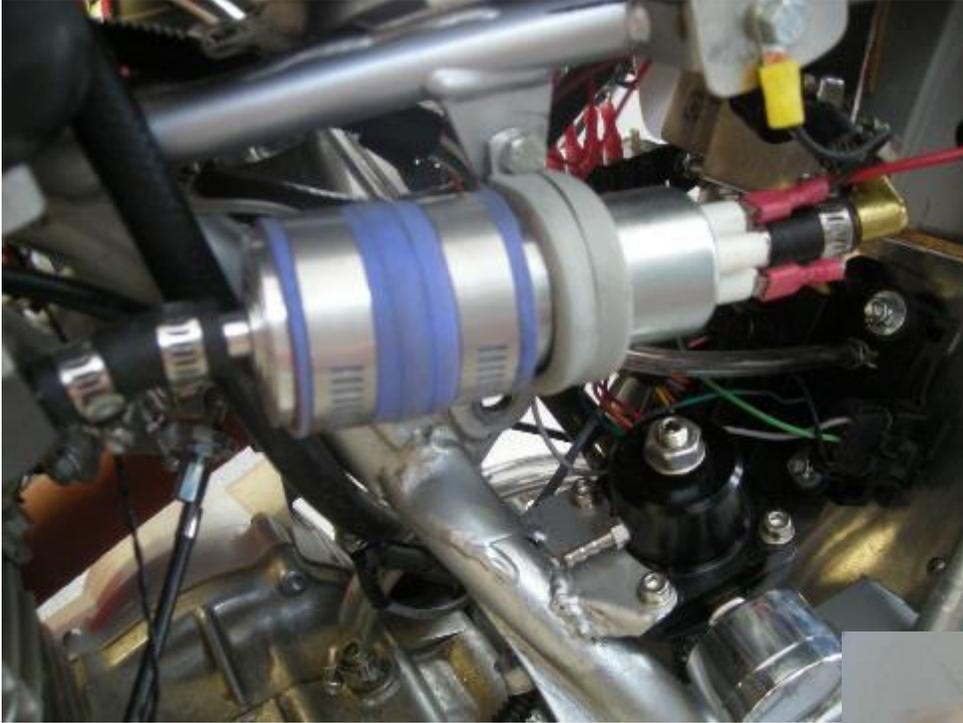
*Bolt*



# Fabrication Steps

- Determine thickness of bracket
- Determine how to attach
- Make cardboard template
- Fabricate with metal

# Fabrication Examples



# Aluminum Working Tools



# More Tools



# Finishing Aluminum

- Nothing
- Scotchbright
- Polish
- Paint
- Powdercoat



# My Plane



# Inlet Air Deflector Panels



# Close up



After Market certified panels = \$450 each  
Fabrication costs: Materials \$30 & Powder coating \$30

# Vertical Stabilizer Leading Edge Panel



After Market certified panel = \$280

Fabrication costs: Material on hand; tools \$12