

# Compact Chest Rig

Fabricating equipment to fit my maintenance mission at the 104th Fighter Wing.





# MODERN MINUTEMEN:

The mission of the 104th Fighter Wing.

## The mission

At the 104th Fighter Wing, I maintained engines to keep the F-15's flying. We would train for hostile environments, performing maintenance while responding to simulated threats and emergency scenarios.



## Hostile environment tools

Radios, magazines, medical supplies, and reference documents are just a few of the necessary items we had to carry during the hostile environment exercises.



## Government issue(s)

Issued gear to carry the required equipment was bulky, heavy, and hot. I wanted a lighter, more compact solution.



INSPIRATION:

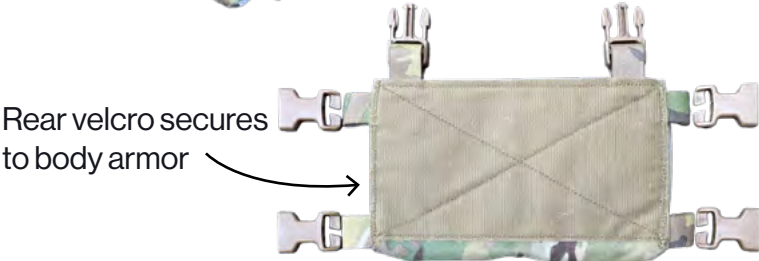
Taking a look at available equipment.

Spiritus Systems Micro Fight

This clever compact chest rig adapts to various mission needs. It's based off of a central chassis that accepts various inserts and adapters.



Central chassis



Mounting options

01.  
Standalone  
Harness



02.  
Mounted on  
body armor





## FABRICATION:

Constructing my modified version of the chassis, harnesses, and inserts.

### Tailoring to my mission

I wanted something thinner and more suited to performing maintenance rather than just combat.

I decided to make only the central chassis, harness, and magazine inserts. All other pouches I needed could be purchased.

### Built to last

Chassis were sewn out of 500D polyurethane coated nylon, harnesses were sewn out of nylon and elastic webbing. Polymer magazine inserts were cut and bent out of Kydex.





# THE FINAL PRODUCT:

Final chest rig chassis and harnesses.



# CHASSIS DETAIL:

Central chassis construction and features.



Ranger Green

Interchangeable hardware to fit mission requirements



Attach to body armor or cover velcro for standalone use

Magazine retention assembly





# HARNESS DETAILS:

Construction/features.



Radio PTT mount:



Changing hardware:







**Mounted on  
body armor**



**Standalone rig**

