

# Hustler 6x6

## **Project:**

To restore a classic 1971 Hustler 6x6 amphibious AATV.

## **Expectations:**

Students disassemble, inventory parts, order replacement parts, and rebuild the body and transmission. Students will fully restore it to like-new condition.

Students will:

- Tear down the machine
- Inventory parts that can be reused
  - Bag and label parts, and keep an inventory of them
- Inventory parts that will need to be replaced
  - Bag and label parts to keep to compare with the new parts to ensure that they will fit
- Order new parts
  - Look up new parts
  - Order new parts
  - Reconcile the shipping receipt with the new parts
- Clean and Paint parts that will be reused
  - Includes glass beading
- Clean and repair the body as needed (may include polishing)
- Assemble machine
- Test run the engine and machine
  - Ultimately, take a field trip to Pine Lake Race Track to test run.
  - Fabricate new parts if/when necessary by collaborating with some of the other programs within the school, such as Welding and Precision Engineering.

## **Major Components:**

### **CCW 340 2-Stroke Engine**

- Dissassembly
- Inspect for wear
- Order new parts
  - This also includes interacting with the machine shop
- Engine assembly
  - Piston Rings
  - Cylinders
  - Heads
  - Set timing
  - Test run

### **T-20 Transmission**

- Dissassembly
- Inspect for wear
- Order new parts
  - Seals
  - O-Rings
  - Send bands out for relining
- Reassembly
- Test

### **Body**

- Remove aftermarket lights
- Repair holes and damage to the body
- Repaint body
- Get new decals printed