

**CHECK OFF TOOLS AND SHOP MATERIALS NEEDED.**

These tools and shop materials are not included and are required to complete and operate your **PIPER TOMAHAWK** and most other remote control aircraft. ~~For some specific recommendations and part numbers please see the attached listing of tools and materials available in your market area.~~ **SA**

- Clean and flat table or work surface approximately 600 x 1800 mm ( 24 x 72 in. )
- 2.5 mm ball socket screw driver or Allen wrench
- 3.0 mm ball socket screw driver or Allen wrench
- 4.0 mm ball socket screw driver or Allen wrench
- Phillips ( cross head ) screw driver small size
- Phillips ( cross head ) screw driver medium size
- Flat blade screw driver medium size
- Low tack masking tape **Ruler or tape measure** **SD**

- Side ( " wire " ) cutters **SE**
- Pencil, pliers, hobby knife with #11 blade
- 30 minute Epoxy and 240 grit sandpaper
- Silicon Based Sealant (Dap - A - Goo )
- Epoxy mixing dishes, brushes and sticks
- Paper towels
- Rubbing alcohol
- Crescent wrench (optional )
- Heat gun and **heat iron** for covering (optional for covering touch up ) **SB SE**

**CHECK OFF OTHER ITEMS NEEDED TO COMPLETE ~~VMA PIPER TOMAHAWK SEMI SCALE SPORT MODEL~~ **SG****

These items are not included and are required to complete and operate your VMA MODEL and most other remote control aircraft.

- Medium fuel tubing appropriate for your choice of engine and fuel. 500 - 750 mm ( 24-36 in. )
- Liquid thread locker
- RC FM radio with at least four channels of control and on a frequency appropriate for your market area.
- Five servos compatible with the RC FM Radio. Servos generally are ~~sold~~ with new radio systems **SH**
- External Switch Actuator appropriate for your radio system ( optional )
- Engine and muffler suitable for use in a remote control model aircraft. A two stroke glow fuel .40 **.53** cubic inch engine is recommended. **SF**
- Propeller suitable for the engine. See the engine instruction manual recommendation for diameter and pitch.
- Engine glow plug
- Engine glow plug igniter **SK GA BLUE**
- Engine 4 way wrench
- Fuel for the engine **SL Adcock & Harwood**
- "After run" oil for engine
- RC Foam sheeting for wrapping radio receiver and battery pack. **tie** **SAN**

**CHECK OFF OPTIONAL EQUIPMENT AND ACCESSORIES.**

These items are not included and are not required but make the operation of your **PIPER TOMAHAWK** and most other remote control aircraft easier & more enjoyable. **SAM**

- Power Tote Deluxe field box # VMA-PT109D
- Fuel pump and connecting tubing
- Fueling valve
- Chicken stick or electric starter
- Stick on weights
- Battery to power electric starter
- Battery charger
- Power Panel to manage starter and pump if electric.
- Extra propellers
- Extra **Glow Plugs** **SI**
- Misc **Tools** **SI**
- Engine test stand # VMA - ETS120