

# HySecurity Gate Operators

## Suggested Tools List

### Document D0066

#### ❖ Socket Sets

- 1/2 Drive deep well up to 1 1/8 inch.
  - Used for; tightening anchors, adjusting gate hardware, replacing valves installing counter-weights.
- 3/8 Drive 1/4 to 3/4 inch.
  - Used for; purging the AWOG as needed & tightening drive wheels.

#### ❖ Combination wrench set

- SAE 1/4 to 1 1/8 open / box end

#### ❖ Screw drivers

- Phillips (cross-tip) #2 Six inch length or longer
  - Used for; connecting wires to contactor, ST Board and power board screw terminals
- Phillips (cross-tip) #1 Four to six inch length.
- Flat tip - Small 1/8 inch blade, six inch length or longer.
  - Connecting loop detector and photo-eye wires, adjusting the loop detectors
- Flat tip – Medium 1/4 inch blade, two inch “Stubby”
  - For adjusting the limit switches
- Flat tip – Medium 1/4 inch blade Six inch length
  - For adjusting the limit switches

#### ❖ Allen key set

- SAE “Allen” key set from 1/16 inch to 3/8 inch
  - For adjusting valves and checking fluid level.

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#### ❖ Wire strippers

- Must have the ability to strip the insulation from wires ranging from 20ga to 10ga
  - Assorted “Jumper” wire 18ga 14ga & 12ga

#### ❖ Wire crimpers

- Must have the ability to crimp wires ranging from 20ga to 10ga
  - With assorted “Fast-Ons”

#### ❖ Needle nose pliers

- Used for installing the wires to the back of the contactor.

#### ❖ Linesman pliers

- The 8” size would work well for general purpose cutting and pulling

#### ❖ Digital volt/ohm meter

- With inductive ammeter and peak hold.

#### ❖ Straight edge/level 36”

- Used to level operator and align the drive rail.

#### ❖ Measuring tape 30’

#### ❖ Drill motor

- Sized to fit the available bits.

#### ❖ Drill bits

- Greenlee “Uni-bit” Aka: Christmas tree bit, Step bit or sheet drill.

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## ❖ Metal (aluminum) cutting saw

- Hack saw or Saws-All
  - For trimming drive rail

## ❖ Hammers

- 1-2 lb Ball Peen, Dead Blow & German.

## ❖ Torque Wrench