

# TROUBLESHOOTING GUIDE

VC2000

1 – Improper clip spacing

2 – Clips do not feed properly

3 – Clips are not driven properly

4 – Driver blade is stuck down

5 – Tool height not working

6 – Recommended maintenance

# 1 – Improper clip spacing

- Make sure VH0134 trigger-switch knob and end-stop knobs are in correct position and tight
- Make sure VH0137 T-bolt is positioned in the slot when tight
- Check flag on VC5327 trigger switch assembly and inspect to make sure it is there and not excessively worn or damaged
- Make sure that the operator has a fluid motion when guiding the rail through the clipping head
- VH0050 flow control valve may be misadjusted for the operator speed

## 2 – Clips do not feed properly

- Check air pressure: should be 70-90 P.S.I.; adjust as necessary
- Check clip dispenser to make sure clips move freely and to make sure that the clip lifter VC5523 is working properly
- Check to make sure clips are loose on the roll
- The magnetic brake block VC5505 may be too strong; if this has two magnets, one of them may need to be removed
- Check for obstructions in the track and clip chute; repair as necessary
- Check to make sure that the clip-feed cylinder is engaged and that the assembly is tight to the mounting bracket
- Are the feed pawls VC5122 and VC5123 engaged and are the VC5121 feed pawl springs operational?
- VC5127 feed piston (clip feeder) internal spring may be broken
- VC5117 torsion spring may be missing or broken
- Is the VC5101 driver blade stuck down? If so, please follow troubleshooting procedures for “blade stuck down or tool doesn’t fire”
- Are the grooves in the VC5504 spool holder worn excessively or are there any burrs that would impede the roll from turning properly on the holder?

## 3 – Clips are not driven properly

- Check air pressure
- Inspect the muffler for dirt and debris
- Make sure that the tool height is adjusted properly
- Check for air leaks
- Check for knots or voids in the wood
- Make sure that the rail is pushed up tight to the VC5214 entry-guide rail and VC5364 uni-strut rail

## 4 – Driver blade is stuck down

- Lubricate tool
- Piston assembly VC0006 may have come unscrewed from the VC5119 yoke
- VC5119 yoke may be broken
- VC0006 assembly may be broken
- VC0004 spring may be collapsed or broken
- Check for debris that may be lodged
- Check for burrs on VC5107 and VC5108 side plates
- VC5320 cartridge valve may be sticking
- Mac/Ross valve may be sticking

## 5 – Tool height not working

- VH0179 plunger disengaged: adjust head and reinsert to lock
- Debris in VC5241 acme rod or VC5216 sprocket
- Obstruction in VC5216 sprocket or VC5218 chain
- Check to make sure VH0159 is tight and not missing

## 6 – Recommended maintenance

- Daily
- Use air gun to blow off woodchips, sawdust, and debris from machine including tool, clip trigger, acme rod, and tool-height adjustment area
  - Add 2 to 3 drops of 30W non-detergent, no-additive oil to opening between the front plate and the top of the blade of the tool assembly
- Weekly
- Check for loose or missing screws, nuts, or bolts
  - Remove air hose from clip-feeder assembly and add 2 to 3 drops of 30W non-detergent, no-additive oil to the hose opening and reinstall
  - Remove tool air supply hose and add 2 to 3 drops of 30W non-detergent, no-additive oil to the hose opening and reinstall
- Bi-weekly
- Drain reservoir air tank of water/condensation
- Monthly
- Clean mufflers (remove and clean)
  - Remove front plate from tool and lubricate drive blade, front plate, and top plate
  - Remove air-supply hoses on clip-lifter cylinders and add 2 to 3 drops of 30W non-detergent, no-additive oil to the hose openings and reinstall
  - Remove hose and oil clips trigger
  - Check hoses for cuts and abrasions
  - FC2000 only: clean and oil clip dispenser turntable assembly
- Annually
- Rebuild tool
  - Degrease and clean all machine areas