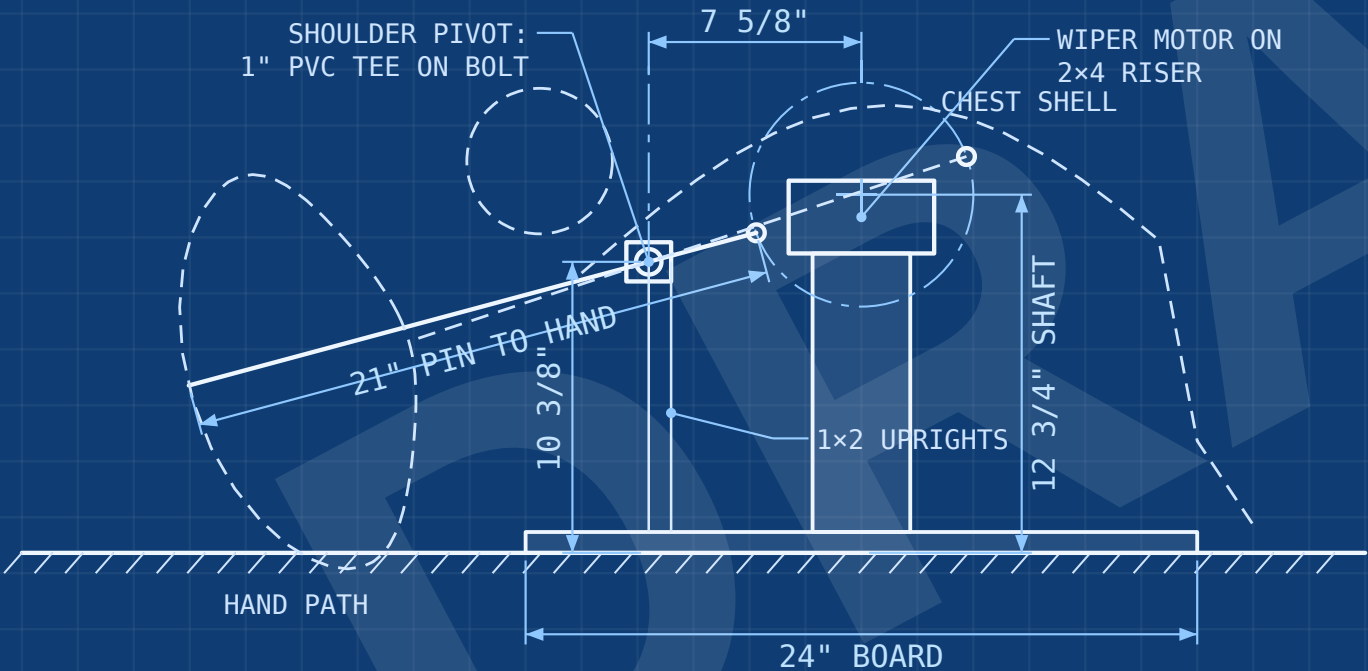


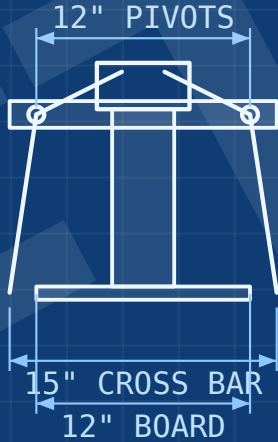
SIDE ELEVATION

ARMS SHOWN MID-STROKE · CRAWLING TO THE LEFT



FRONT VIEW

LOOKING AT THE HEAD



DETAIL A · DOUBLE CRANK

1/4" × 1" FLAT BAR, PINS 180° APART



NOTES

1. Dimensions in inches. Motor shaft 12 3/4" above the ground; shoulder pivots 7 5/8" in front of it and 2 3/8" lower.
2. Each hand is 21" from its crank pin. Trim the rods so the fingertips just brush the ground at the bottom of the loop.
3. The two crank pins are 180° apart, so one arm reaches while the other pulls.
4. Use spacers on the crank pins so the two arm rods pass each other freely.
5. Set park so both hands rest on the ground between runs.

CUT LIST & HARDWARE

QTY	PART	SIZE / SPEC
1	Base board, 3/4" plywood	12 × 24
1	Riser, 2×4	10"
1	Shoulder cross bar, 1×2	15"
2	Shoulder pivots	1" PVC tee + bolt
1	Wiper motor	12V
1	Double crank, 1/4" bar	1 × 9 1/2"
2	Arm rods, 3/4" PVC	about 22"
2	Uprights, 1×2	10"
1	Auto relay + fuse	40A relay, 15A fuse

PROP CONTROL · DIY PROJECT 04

GROUND CRAWLER

Double slider-crank · wiper motor

SCALE
NOT TO SCALE
REV
A

UNITS
INCHES
DATE
2026-10-13

SHEET
1 OF 1
DRAWN
PROP CONTROL