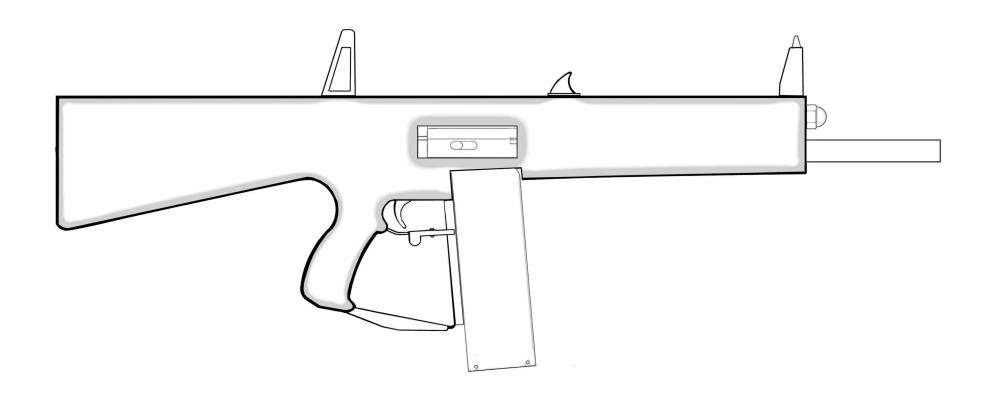
AA-12 CONSTRUCTION PLANS

FULL AUTO OPEN-BOLT / SEMI AUTO CLOSED-BOLT

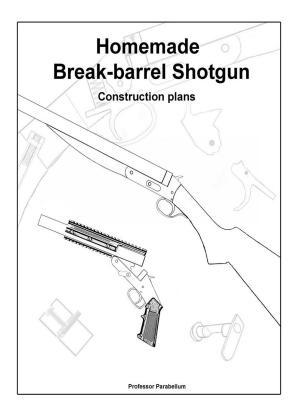


PRACTICAL SCRAP METAL SMALL ARMS VOL.26

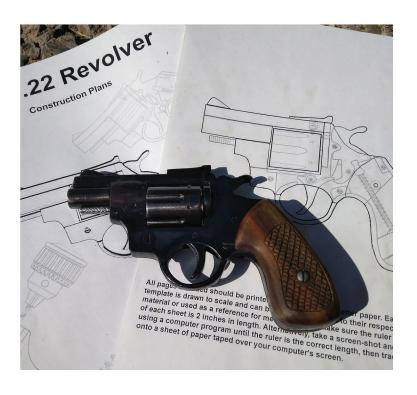
Professor Parabellum

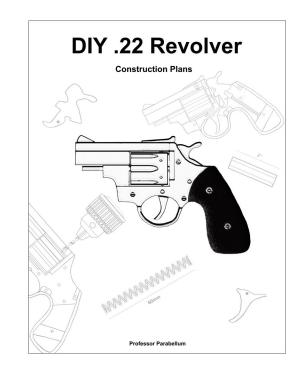
What readers have built:







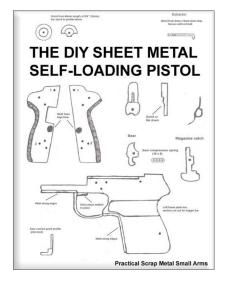


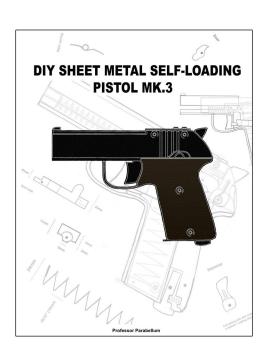








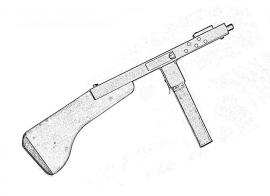






BUILD YOUR OWN

IMPROVISED SPECIAL PURPOSE SUBMACHINE GUN



- HIGHLY CONCEALABLE
 QUICK & EASY TO BUILD
 MINIMAL NUMBER OF PARTS
 MADE FROM STANDARD SIZES
 OF SQUARE TUBING

Hardware store materials (USA, Imperial):

Receiver and Gas Tube: 1" ID steel tube (OD: 33.4mm - 26.79mm)

Barrel, Bolt and Piston: 3/4" ID steel tube (OD: 26.67mm - ID: 20.93mm)

Reducer tube: 1/2" ID steel tube

Bolt Key Plate, Gas Block: 5/16" mild steel plate

Bolt Locking Peg and Spring Guide Rod: 1/2" steel round bar

Precision Steel Tube (Europe, Metric):

Receiver and Gas Tube: 30mm x 2.5mm steel tube

Barrel, Bolt and Piston: 25mm x 2.5mm steel tube

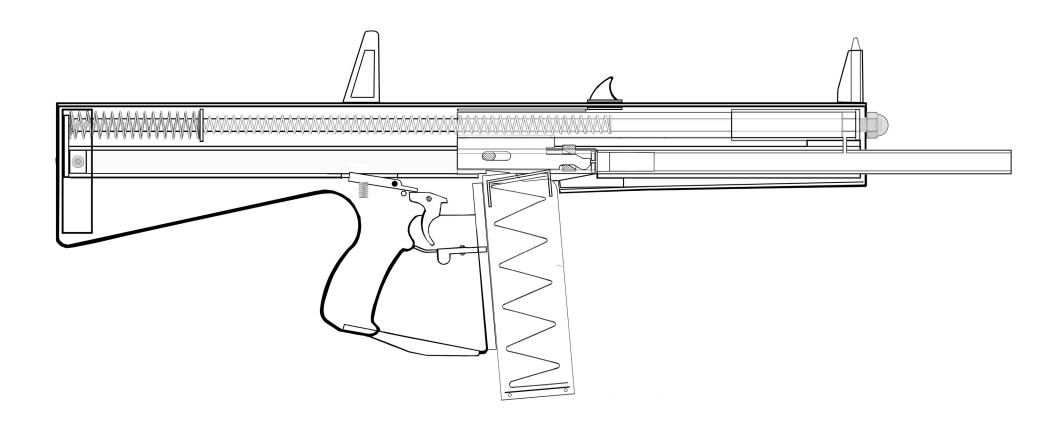
Reducer Tube: 19mm x 2mm

Bolt Key Plate, Gas Block: 8mm steel plate

Bolt Locking Peg and Spring Guide Rod: 12mm steel round bar

In most cases it will be easiest to find a suitable length of tubing for the barrel first. By measuring the outside diameter of your barrel you can more easily find a second length of tubing which will be a sliding fit over it. Sanding of the outside of the barrel tube using a flap disc may be required to achieve this.

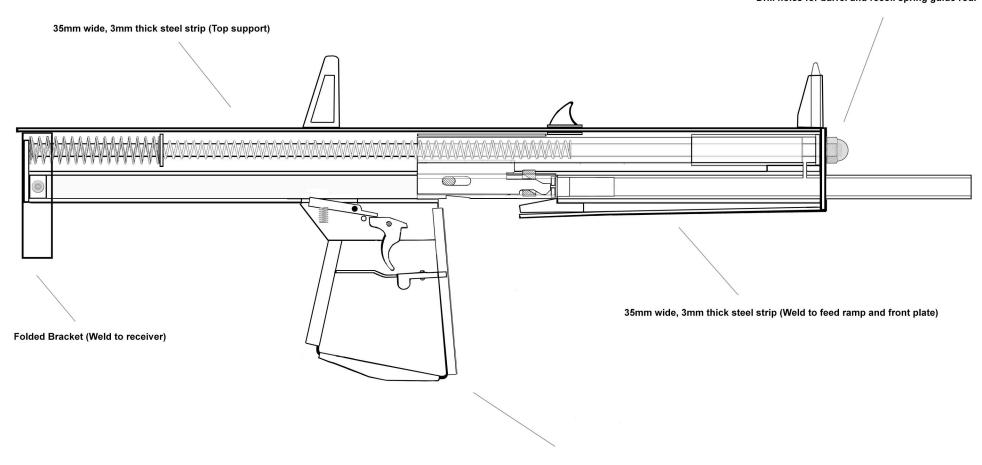
Open-Bolt Fully Automatic



Steel internal structure

(ABS Side Plates are bolted to either side)

35mm wide, 3mm thick steel strip (Front plate)
Drill holes for barrel and recoil spring guide rod.



Recoil spring: Custom wound. 700mm long, 14mm ID, 17-18mm OD.

19 Gauge Music Wire.

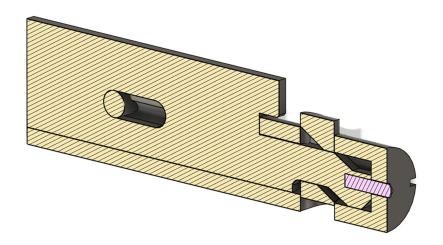
Buffer spring: 150mm long, 25mm OD.
Washer: 25mm OD, 13mm hole.

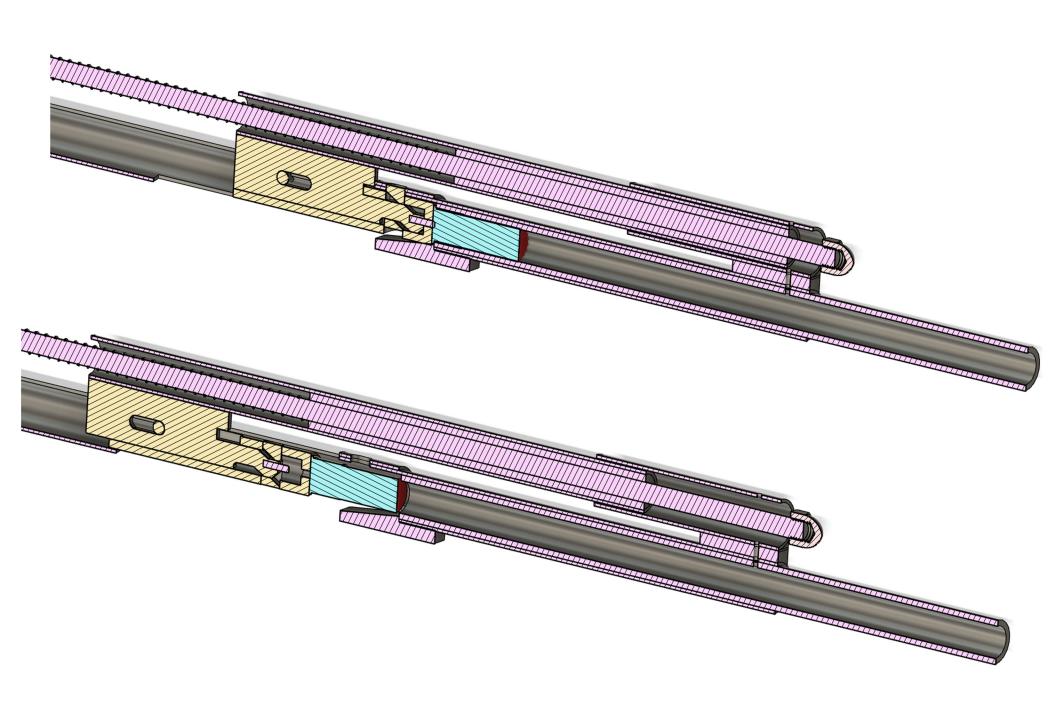
Folded sheet steel magazine support bracket



Bolt

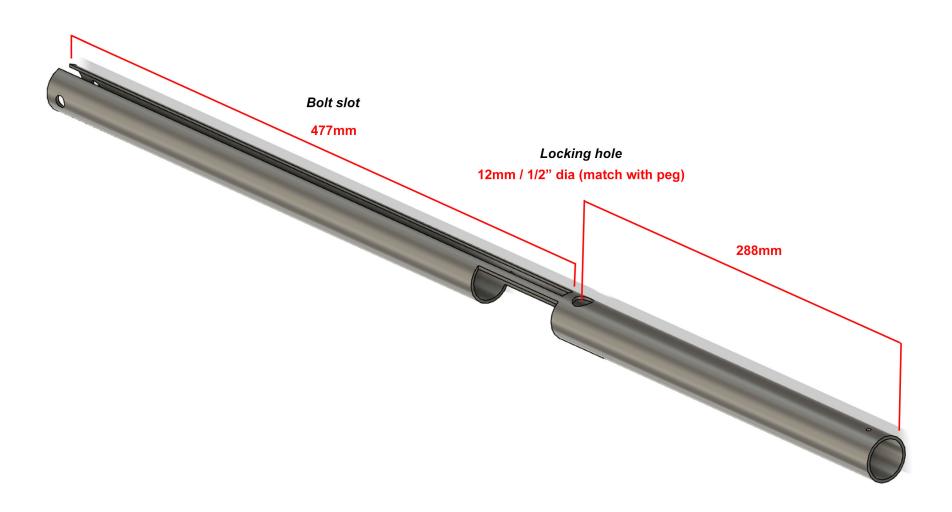


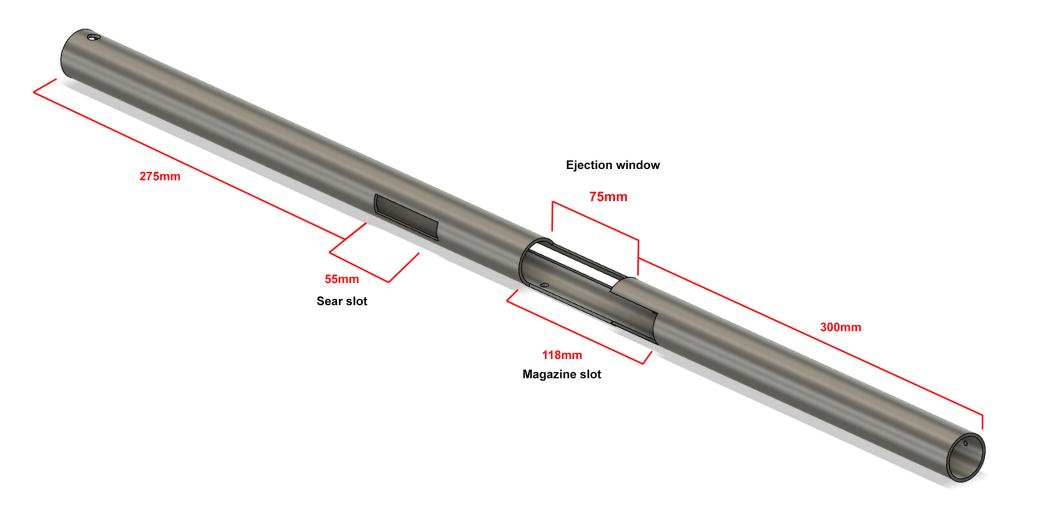




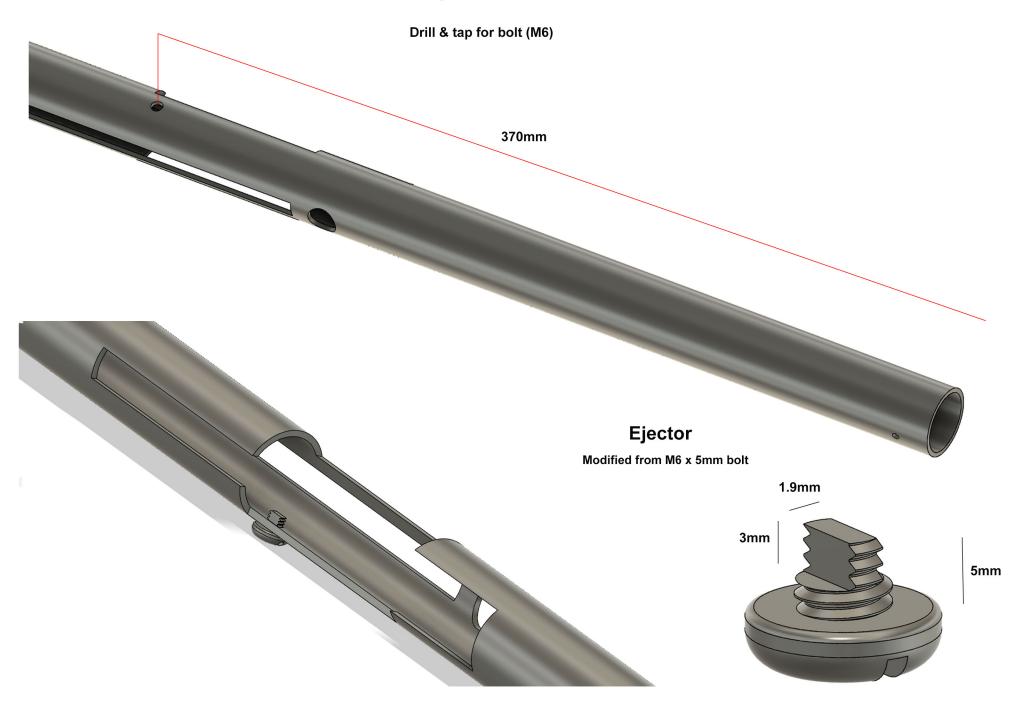
Receiver tube

780mm long

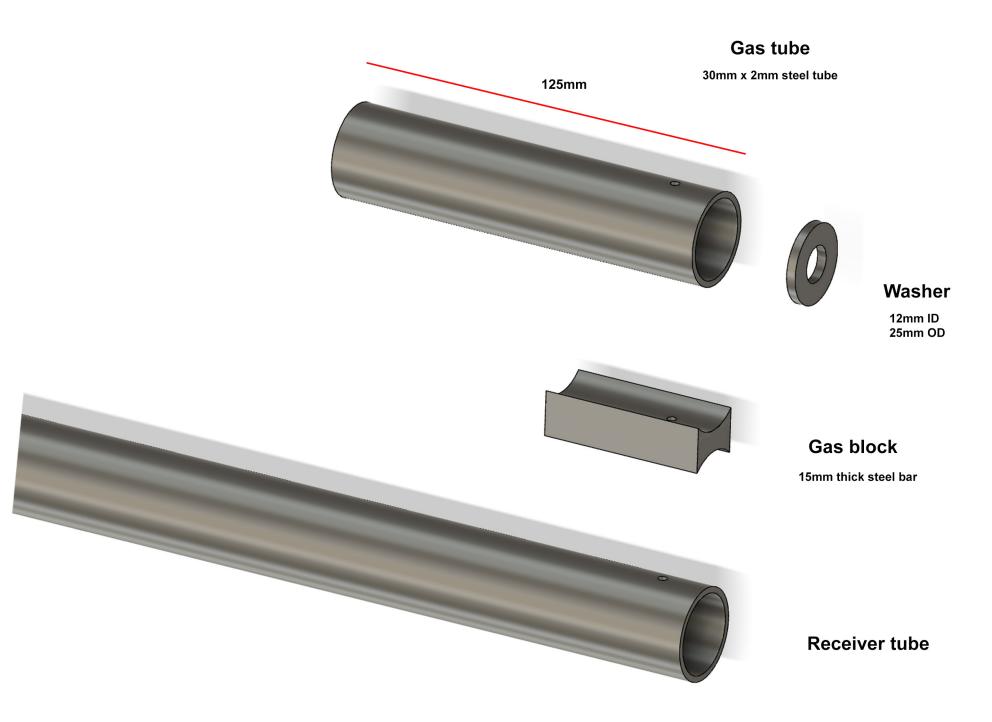




Ejector hole

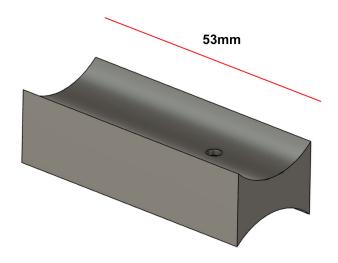


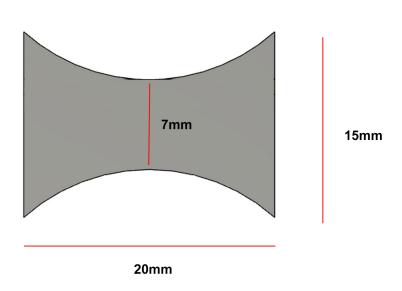
Gas tube assembly



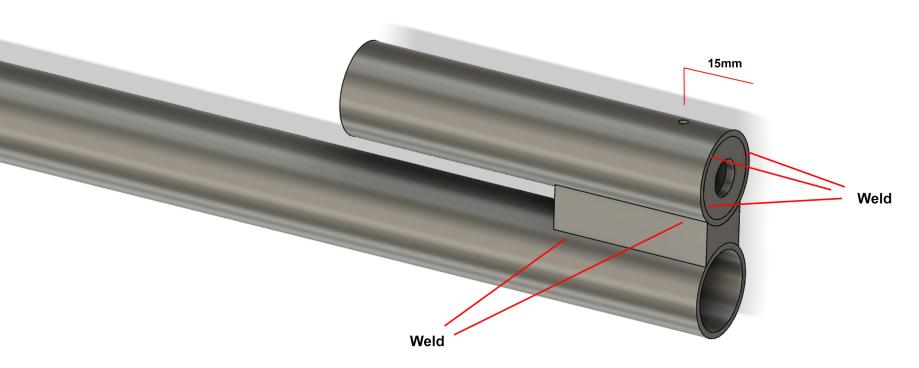
Gas block

15mm x 20mm steel bar

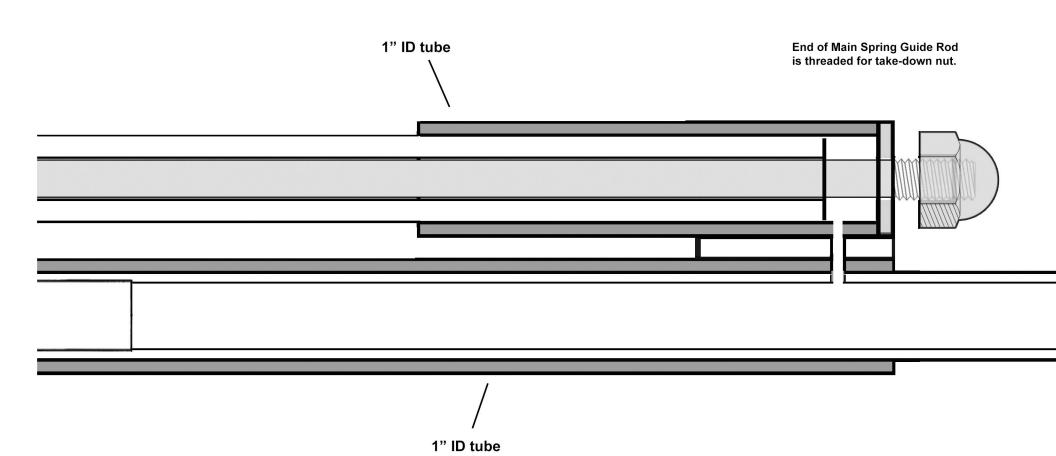




Once welded together, drill a 5mm diameter hole, 15mm from the front through gas tube and block until entering barrel.

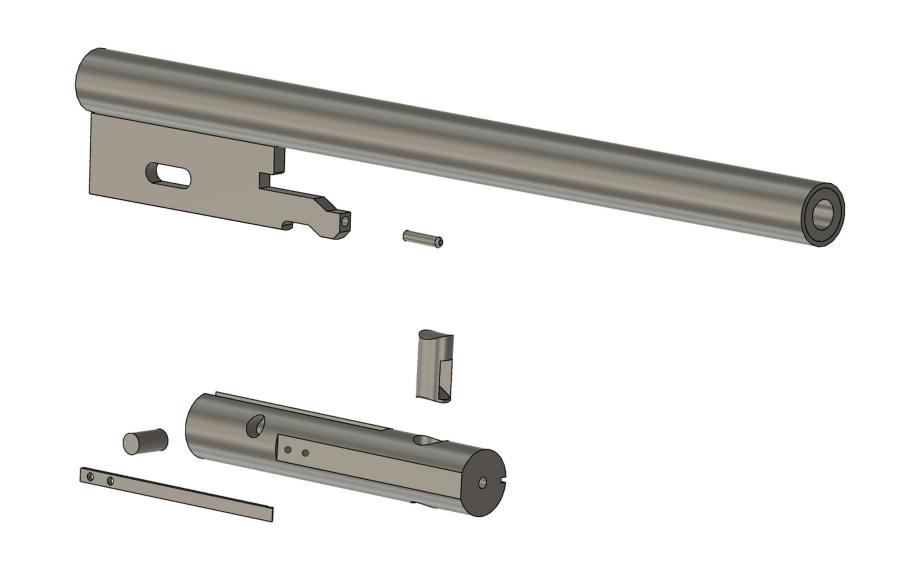


Gas tube



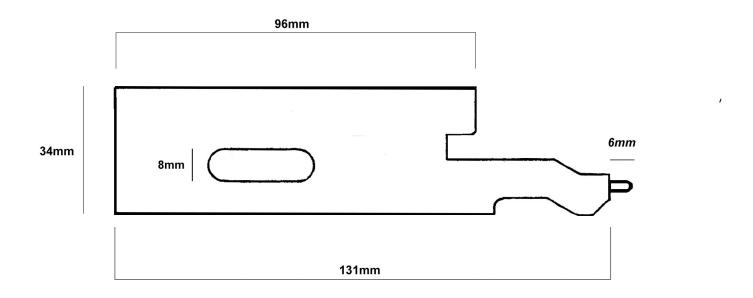
Bolt Assembly



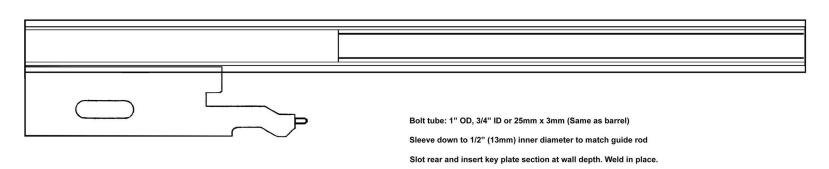


Bolt key section

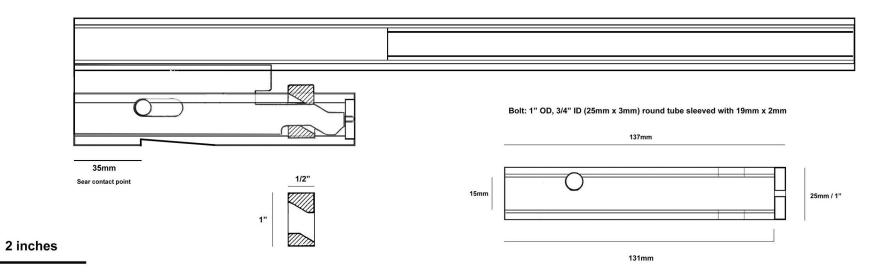
6mm (1/4") steel plate



Drill a 14mm deep, 3mm dia hole to accommodate a 20mm long fixed firing pin made from a length of 3mm silver steel bar which protrudes 6mm. Thread or epoxy in place.

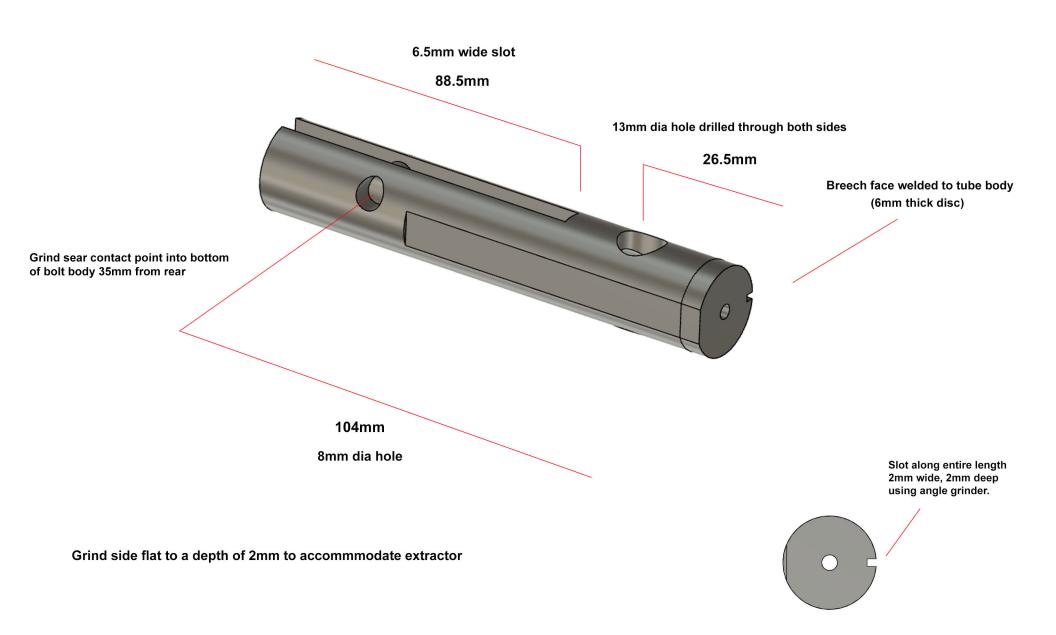






Bolt body

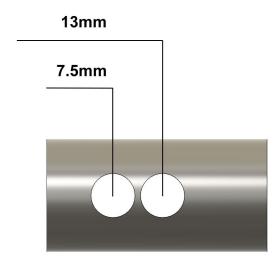
1" OD, 3/4" ID (25mm x 3mm) round tube sleeved with 19mm x 2mm (3/4" OD) tube



Locking peg



The locking peg is made from 13mm dia steel bar, 25mm in length. To cut the internal track two holes are first drilled through using a 5mm dia drill bit.

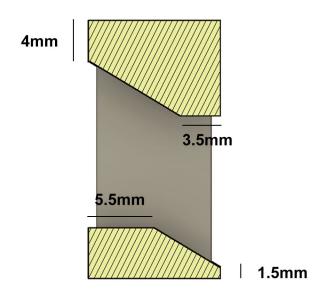


Next a rectangular window is formed by grinding through the wall formed by each hole using a dremel tool and a selection of small tungsten carbide grinding bits and finished with the aid of a set of jeweler's files to match the dimensions below.





In order to be raised or lowered by the Bolt Key, ramps are cut into both the top and bottom of each side of the window. This would be best acheived using a Jeweler's / Needle file.

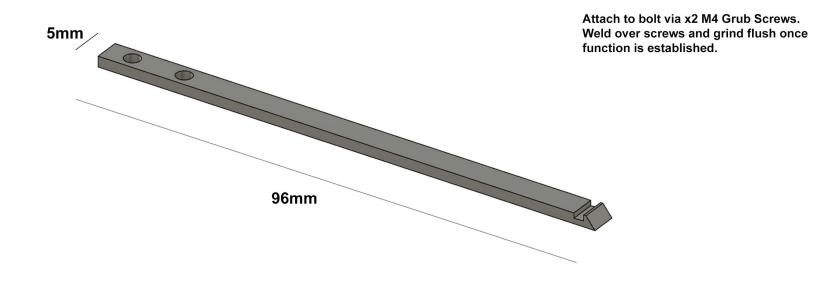


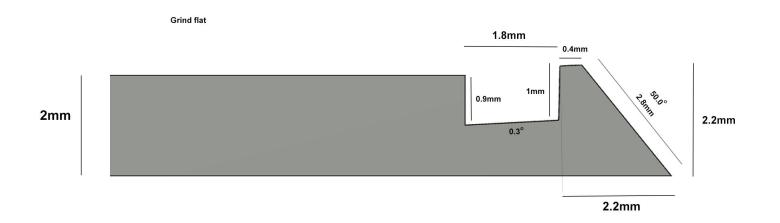


Grind top and bottom to match profile of bolt body when lowered.

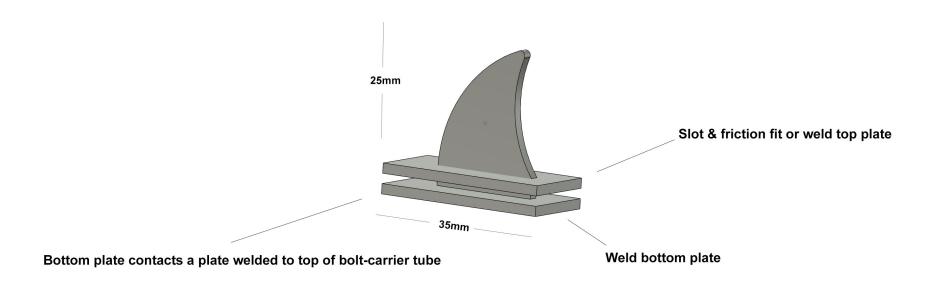
Extractor

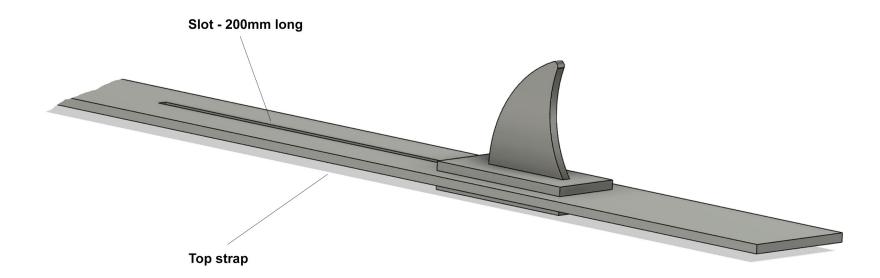
2.5mm flat stock





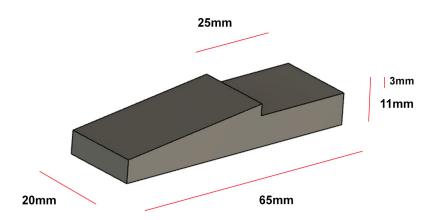
Cocking handle (Non-reciprocating)





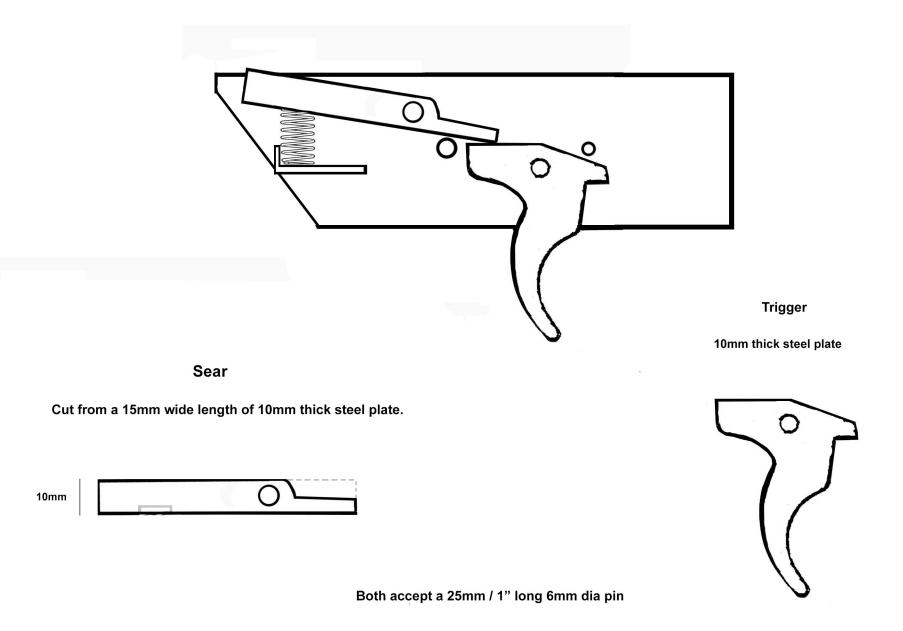
Feed Ramp

Mild steel plate / bar stock



Open Bolt Trigger group

The trigger group should be contained in a housing consisting of two 3mm thick steel plates welded directly to the receiver tube.



Side panels

Enlarge template until it measures 815mm in overall length. Cut from 4mm (1/4") ABS plate.

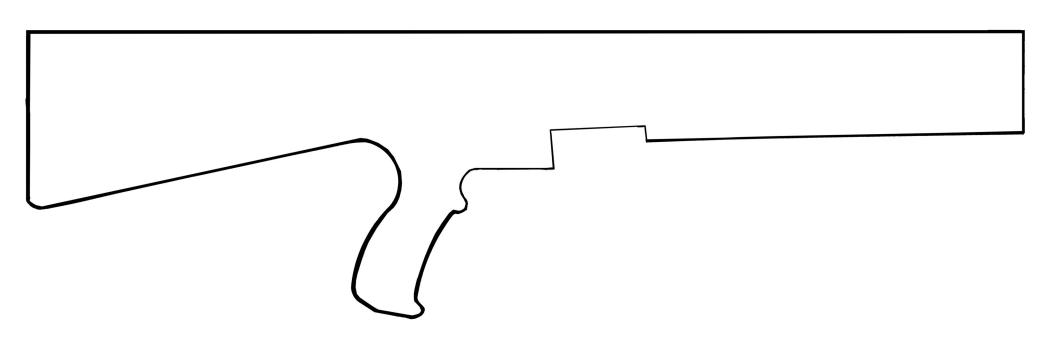
815mm

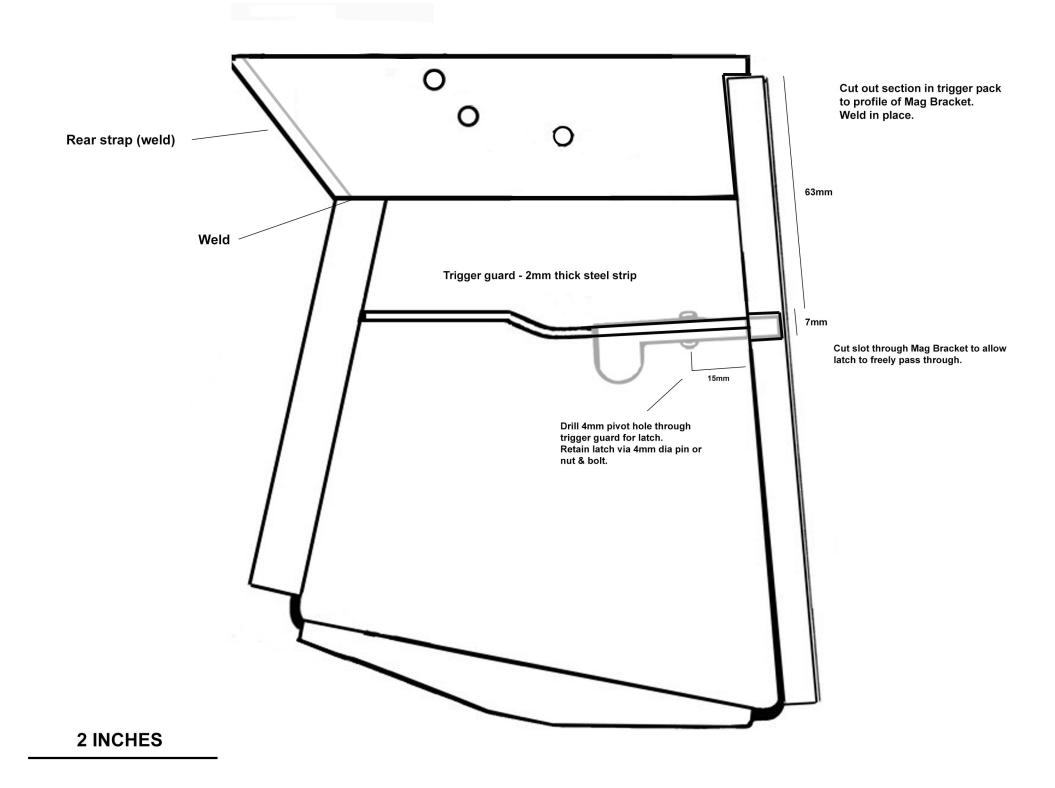
Both side panels are secured to the steel frame via multiple screws located at the front, middle, rear and pistol grip areas.

Side	plate	•
Jiuc	plate	•

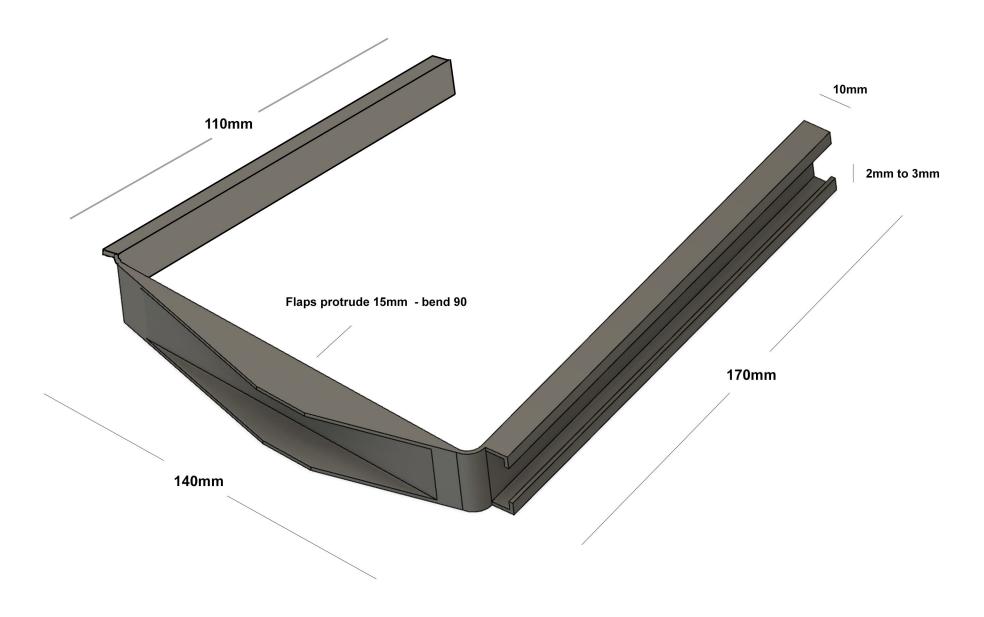
Left

815mm _____





A 400mm length of 1.5mm thick, 60mm wide mild steel plate is bent to form the magazine support bracket.



Two lengths of steel strap matching the inner dimensions of the bent 'track' are welded or brazed to the back of the magazine.

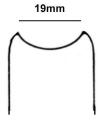


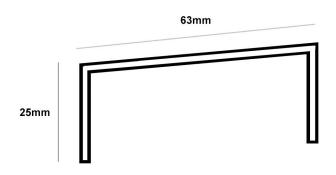
2 INCHES

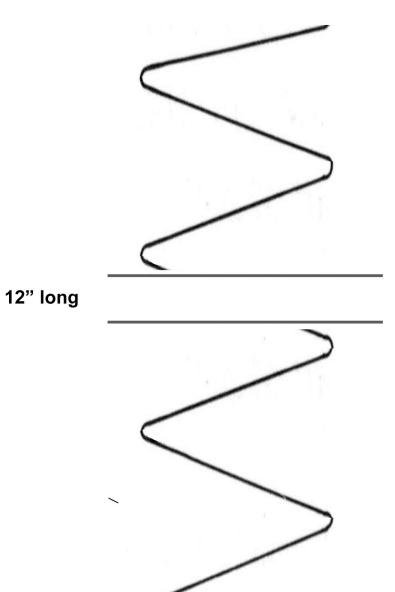
10 round magazine (Body)

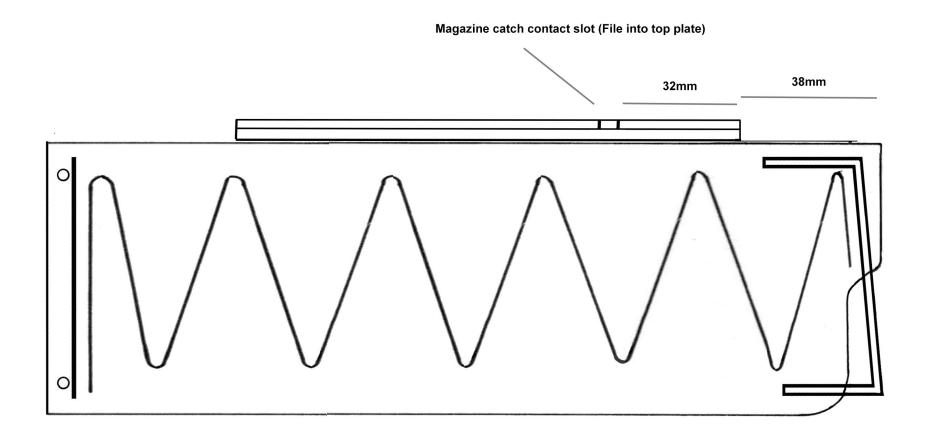
Bend from 3mm thick, 20mm wide steel strip

Bend lips inwards



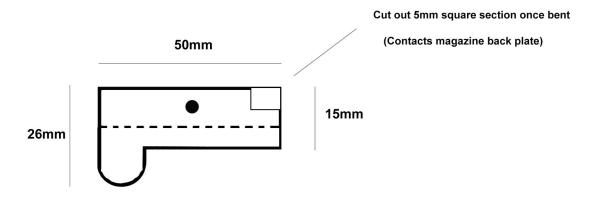






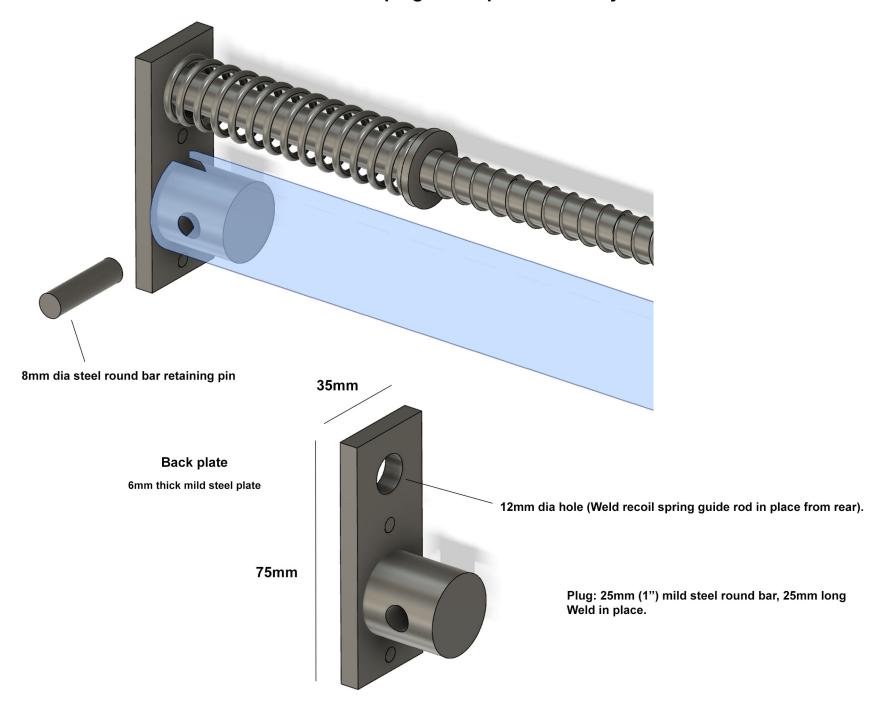
Magazine latch

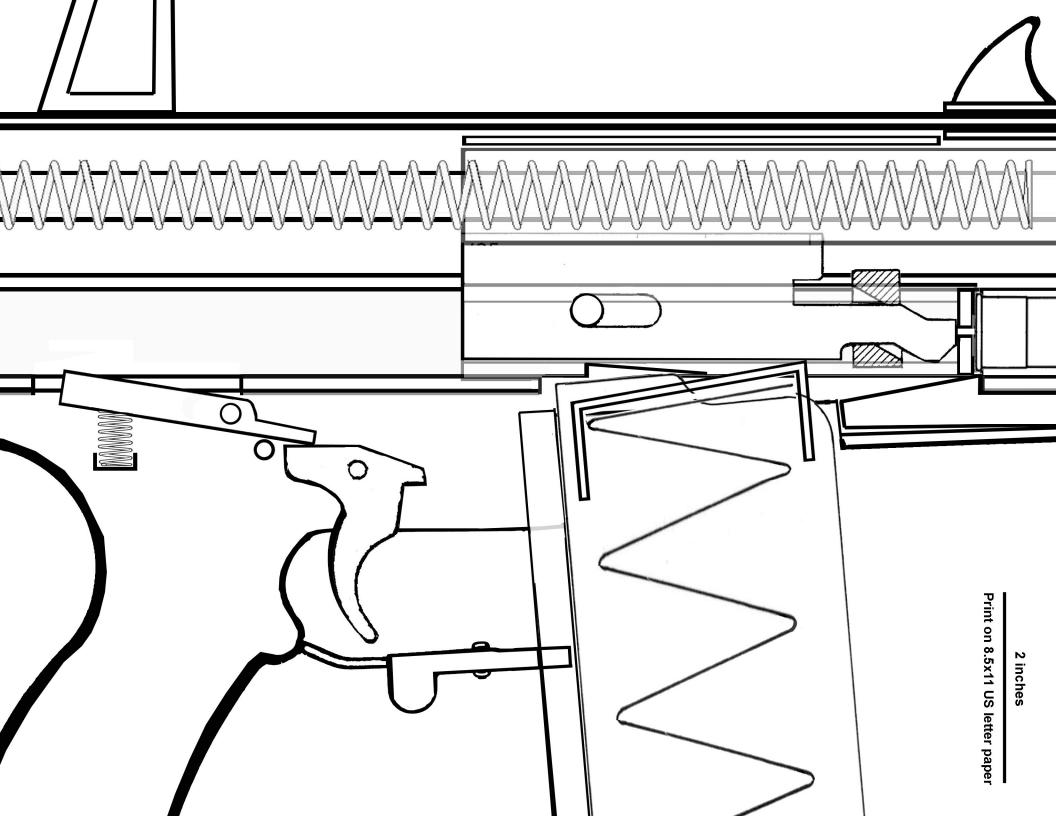
Bend from 1.5mm thick mild steel sheet



Coil spring arms push between button tab and trigger guard while held by M4 nut & bolt. Bend coil spring from 19 gauge Music Wire.

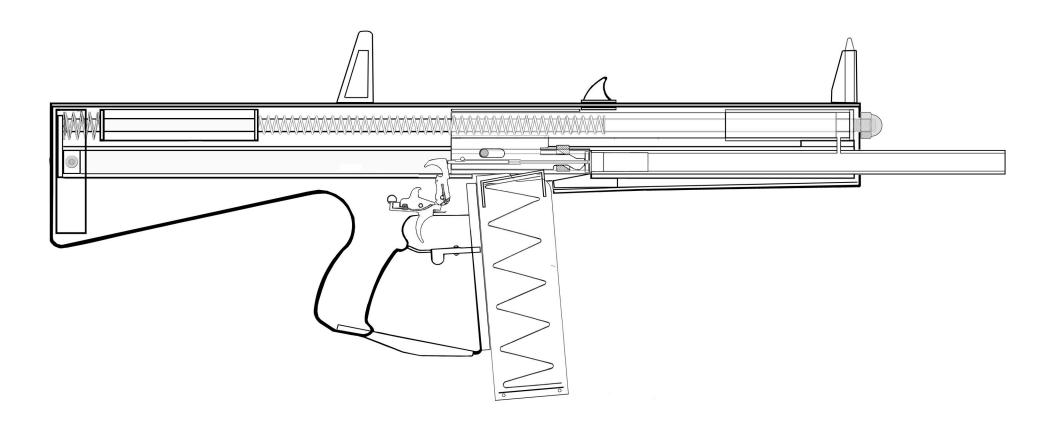
Rear plug / back plate assembly

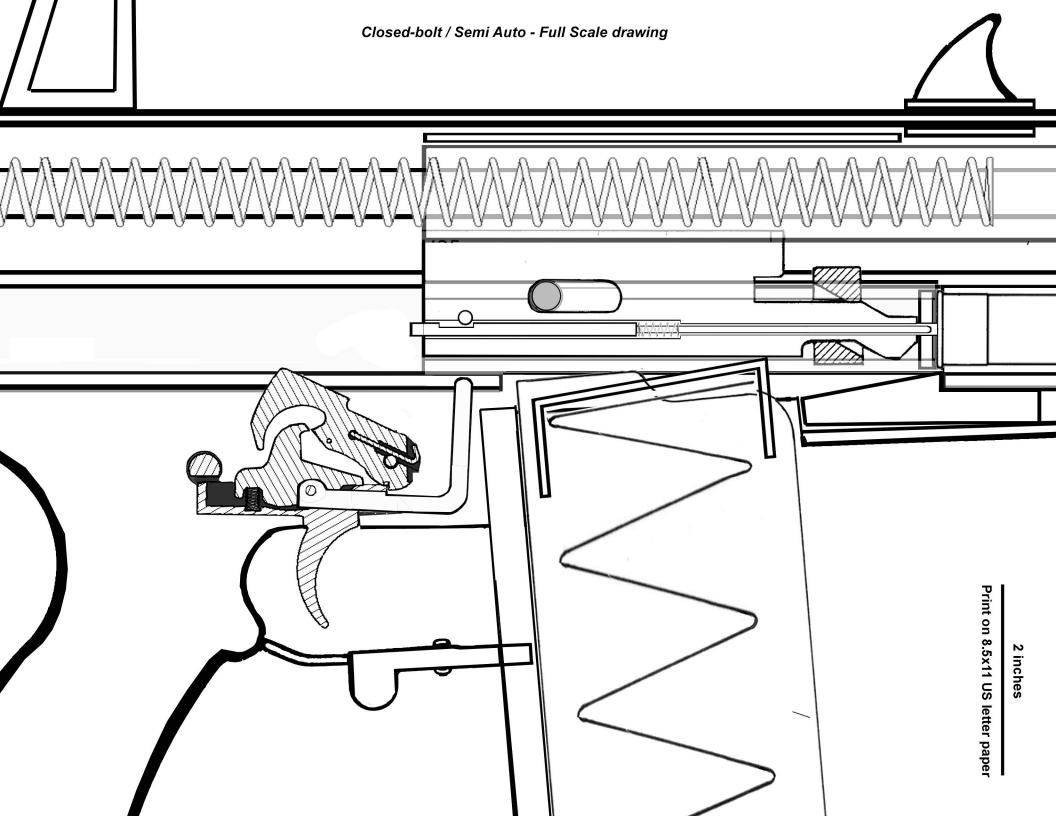




Closed-Bolt Semi Automatic

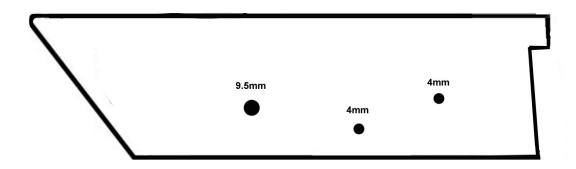
When using a standard AR15 Fire Control Group, a 170mm long section of 1" tubing with a washer welded at each end should be added to restrict rearward bolt travel.

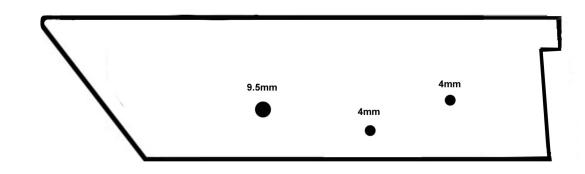




AR15 Fire Control Group side plates

3mm thick mild steel plate



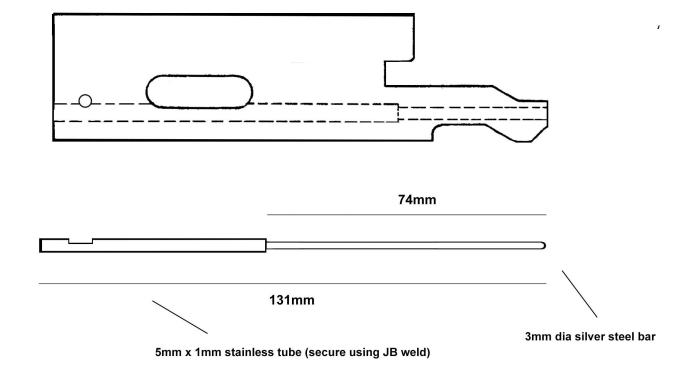


2 INCHES

Closed bolt version

Increase plate thickness / slot in Receiver Tube to 8mm

FP retained via 4mm pin



2 inches



