

Basic II Training Project Manufacturing Plan

Name: Steven Hong

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| **STEP #** | **PROCESS DESCRIPTION** | **MACHINE** | **FIXTURE(S)** | **TOOL(S)** | **SPEED(RPM)** | **NOTES** |
| 1 | Shear the aluminum sheet | Sheet metal shear | Hand-push | Caliber | N/A |  |
| 2 | Punch the holes | Punch | Punch holder | Caliber, center punch, hammer | N/A |  |
| 3 | Debur the hard edges | N/A | Vice | File, deburring tool | N/A |  |
| 4 | Bend the sheet metal | Brake | Jaw | Caliber | N/A |  |
| 5 | Cut base part from bar stock | Horizontal bandsaw | Vice | Caliber, file | N/A |  |
| 6 | Drill holes on base part | Drill press | Vice | Caliber, center drill, drill bits, chip brush, lubricant oil | 750 |  |
| 7 | Tap the threaded holes | Tap | Vice | Lubricant oil | N/A |  |
| 8 | Assembly all the parts | N/A | N/A | Screwdrivers | N/A |  |
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