



Cross-section drawing of Y-1852 *Little Boy* showing major mechanical component placement. Not shown are the APS-13 radar units, clock box with pullout wires, baro switches and tubing, batteries, and electrical wiring. Numbers in () indicate quantity of identical components. Drawing is shown to scale. (Author)

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- A) Front nose elastic locknut attached to 1.0" diameter cadmium-plated draw bolt
- B) 15.0" diameter forged steel nose nut w/14" diameter back end
- C) 28.0" diameter forged steel target case
- D) Impact absorbing anvil surrounded by cavity ring
- E) 13" diameter 3-piece WC tamper liner assembly w/6.5" bore
- F) 6.5" diameter WC tamper insert base
- G) 18" long K-46 steel WC tamper liner sleeve
- H) 4" diameter U-235 target insert discs (6)
- I) Yagi antenna assemblies (4)
- J) Target-case to gun-tube adapter with four vents slots and 6.5" hole
- K) Lift lug
- L) Safing/arming plugs (3)
- M) 6.5" bore gun tube
- N) 0.75" diameter armored tubes containing primer wiring (3)
- O) 27.25" diameter bulkhead plate
- P) Electrical plugs (3)
- Q) Baro ports (8)
- R) 1.0" diameter rear alignment rods (3)
- S) 6.25" diameter U-235 projectile rings (9)
- T) Polonium-Beryllium initiators (4)
- U) Tail tube forward plate
- V) Projectile WC filler plug
- W) Projectile steel back
- X) 2-pound WM slotted-tube Cordite powder bags (4)
- Y) Gun breech with removable inner breech plug and stationary outer bushing
- Z) Tail tube aft plate
- AA) 2.25" long 5/8-18 socket-head tail tube bolts (4)
- BB) Mark 15 Mod 1 electric gun primers w/AN-3102-20AN receptacles (3)
- CC) 15" diameter armored inner tail tube
- DD) Inner armor plate bolted to 15" diameter armored tube
- EE) Rear plate (w/smoke puff tubes) bolted to 17" diameter tail tube

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