



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)

- A) Front nose elastic locknut attached to 1.0" diameter cadmium-plated draw bolt
- B) 15.125" diameter forged steel nose nut
- C) 28.0" diameter forged steel target case
- D) Impact absorbing anvil with shim
- E) 13" diameter 3-piece WC tamper liner assembly w/6.5" bore
- F) 6.5" diameter WC tamper insert base
- G) 14" diameter K-46 steel WC tamper liner sleeve
- H) Polonium-Beryllium initiators (4)
- I) 4" diameter U-235 target insert discs (6)
- J) Yagi antenna assembly (4)
- K) Target-case to gun-tube adapter with four vents slots and 6.5" hole
- L) Lift lug
- M) Safing/arming plugs (3)
- N) 6.5" bore gun tube
- O) 27.25" diameter bulkhead plate
- P) Electrical plugs (3)
- Q) Baro ports (8)
- R) 0.75" diameter armored tube containing primer wiring (3)
- S) 1.0" diameter rear alignment rod (3)
- T) 6.25" diameter U-235 projectile rings (9)
- 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 (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