



Photo 1 – The turbocharger after being separated from the engine.



Photo 2 – Turbocharger manifold bore evidence of hot gas seepage.



Photo 3 – Crack at the base of the manifold.



Photo 4 – Another view of the manifold crack.



Photo 5 – Separated manifold flanges.

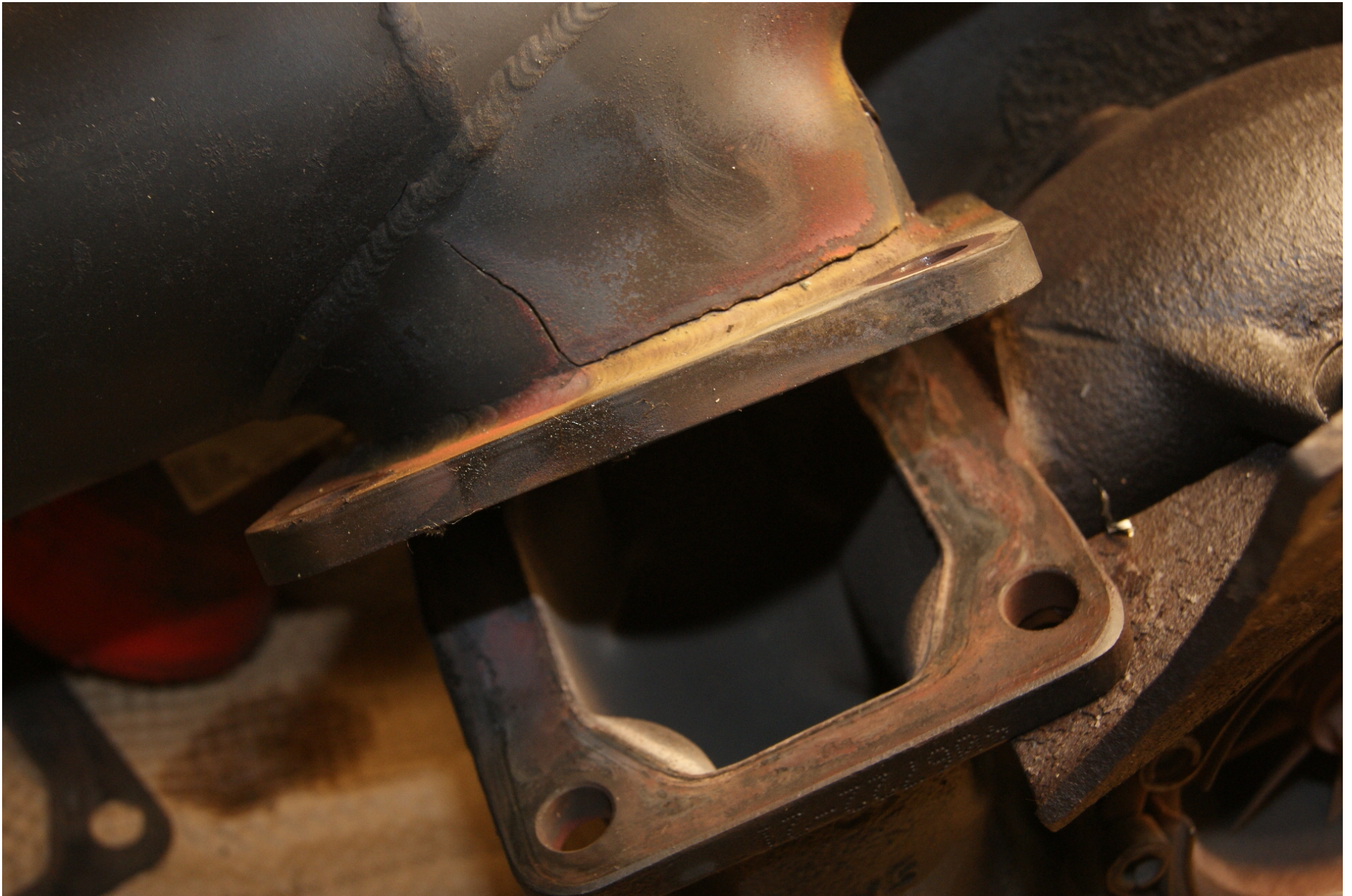


Photo 6 – Another view of the separated manifold flanges. Note crack has propagated around the base of the manifold.

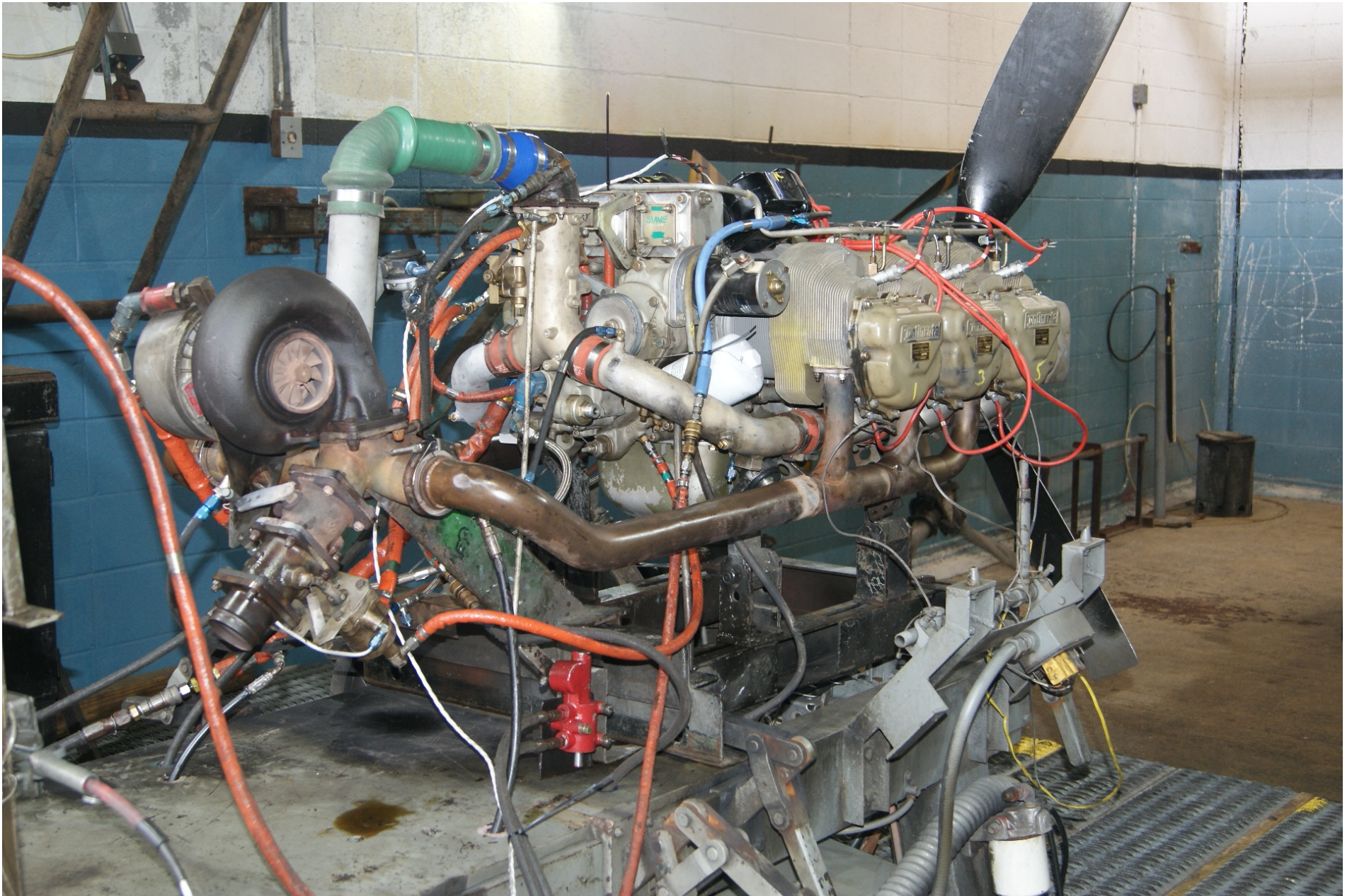


Photo 7 – Preparing the engine for test run with turbocharger and new manifold installed.

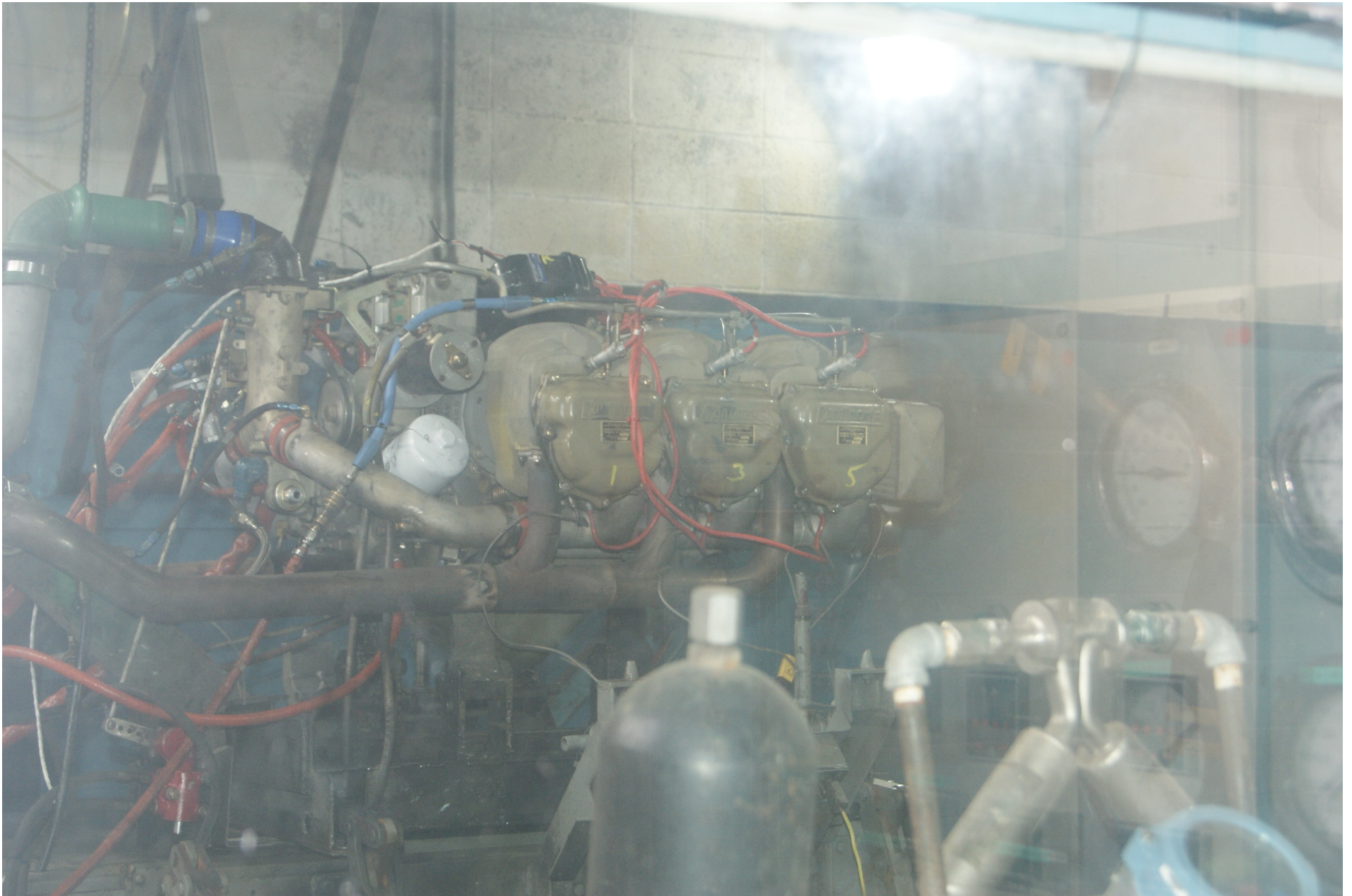


Photo 8 – Engine running in test cell.