```
\A rmi \in RM : ([type |-> "Prepared", rm |-> rmi] \in msgs) \/ (~(tmPrepared = tmPrepared \cup {rmi}))

(tmPrepared = RM) \/ (~([type |-> "Commit"] \in msgs))

\A rmi \in RM : ([type |-> "Commit"] \in msgs) \/ (~(rmState[rmi] = "committed"))

\A rmi \in RM : ~([type |-> "Prepared", rm |-> rmi] \in msgs) \/ (~(rmState[rmi] = "working"))

\A rmi \in RM : ~(rmState[rmi] = "working") \/ (~(tmPrepared = RM))

~([type |-> "Commit"] \in msgs) \/ (~(tmState = "init"))

~([type |-> "Abort"] \in msgs) \/ (~([type |-> "Commit"] \in msgs))

~([type |-> "Abort"] \in msgs) \/ (~(tmState = "init"))

\A rmi \in RM : ([type |-> "Prepared", rm |-> rmi] \in msgs) \/ (~([type |-> "Commit"] \in msgs))

\A rmj \in RM : ([type |-> "Prepared", rm |-> rmj] \in msgs) \/ (~(tmPrepared = RM))

\A rmi \in RM : ~([type |-> "Commit"] \in msgs) \/ (~(rmState[rmi] = "aborted"))

\A rmi \in RM : ~([type |-> "Abort"] \in msgs) \/ (~(rmState[rmi] = "committed"))

\A rmi \in RM : ~(rmState[rmi] = "committed") \/ (~(tmState = "init"))

TCConsistent
```