```
assert_of_eq_bool  THM

⊢  ∀p,q:𝔹. p=₂q ⟺ p = q  by UnivCD
|
1. p : 𝔹
2. q : 𝔹
⊢  p=₂q ⟺ p = q  by Unfold ‘eq_bool‘ 0
|
⊢  ((p∧₂q) ∨₂ (¬₂p∧₂¬₂q)) ⟺ p = q
| by OnHyps [2;1] BoolCases THEN AbReduce 0
|    THEN
|    RW assert_pushdownC 0
|
|\
| 1. false₂ = true₂
| ⊢  False
| | by AssertLemma Thm* ¬true₂ = false₂    {btrue_neq_bfalse} []
| |
| 2. ¬true₂ = false₂
| ⊢  False  by SwapEquands 1 THEN Trivial
|
.\
. 1. true₂ = false₂
. ⊢  False
.   by AssertLemma Thm* ¬true₂ = false₂    {btrue_neq_bfalse} []
.      THEN
.      Trivial
END
```