```
ma-npre-sub  THM

⊢  ∀M1,M2:MsgA.
   M1 ⊆ M2
   ⇒
   (∀a:Id, s:M2.state.
    a declared in M1
    ⇒
    unsolvable M2.pre(a,s) ⇒ unsolvable M1.pre(a,s))
  by RepeatFor 6 (Analyze 0 THENA Complete Auto) THEN Unfold_MsgA -6
     THEN
     Unfold_MsgA -5
     THEN
     SplitAndHyps
     THEN
     Unfold ‘fpf-val‘ 0
     THEN
     AllHyps
     (λh.Unfold ‘fpf-sub‘ h THEN InstHyp [a] h THENA Complete Auto)
     THEN
     AllHyps
     (λh.
      Unfold ‘fpf-sub‘ h THEN InstHyp [locl(a)] h THENA Complete Auto)
     THEN
     ExRepD
     THEN
     ThinTrivial
     THEN
     AssertBY (d2(locl(a))?Top = da(locl(a))?Top)
     (Unfold ‘fpf-cap‘ 0 THEN SplitOnConclITE THEN SplitOnConclITE)
     THEN
     HypSubst -5 0
     THEN
     BackThruSomeHyp
END
```