```
rel_mng_unprime  THM

⊢  ∀r:rel(), e,a,s,ds,da,de,rho,tr:Top.
|  [[r]] rho ds da de e s a tr ~ [[...]] rho ds da de e s a tr
| by Unfolds ``rel_mng rel_unprime`` 0 THEN

|    Reduce 0 THEN UnivCD THENA Auto THEN D 1
THEN All Reduce
|
1. name : relname()
2. r1 : Term List
3. e : Top
4. a : Top
5. s : Top
6. Top
7. Top
8. Top
9. rho : Top
10. tr : Top
⊢  list_accum(x,t.x
|                ([[t]] 1of(e) s a tr);[[name]] rho 2of(e) ;r1) ~ ...
| by GenConcl [[name]] rho 2of(e)  = F

|    THENA (Auto THEN Try (Unfold `top` 0 THEN Auto))
|
1. name : relname()
2. r1 : Term List
3. e : Top
4. a : Top
5. s : Top
6. Top
7. Top
8. Top
9. rho : Top
10. tr : Top
11. F : Top
12. [[name]] rho 2of(e)  = F
⊢  list_accum(x,t.x
|                ([[t]] 1of(e) s a tr);F;r1) ~ ...
| by Thin (-1) THEN MoveToConcl (-1)
THEN ListInd 2 THEN Reduce 0

|    THEN Try (Complete Auto)
|
1. relname()
2. Term List
3. e : Top
4. a : Top
5. s : Top
6. Top
7. Top
8. Top
9. Top
10. tr : Top
11. u : Term
```

```
12. v : Term List
13. ∀F:Top.
|   list_accum(x,t.x
|                  ([[t]] 1of(e) s a tr);F;v) ~ ...
⊢  ∀F:Top.
|  list_accum(x,t.x
|                 ([[t]] 1of(e) s a tr);F
|                                            ([[u]] 1of(e) s a tr);v) ~ ...
| by D 0 THENA Auto
|
1. relname()
2. Term List
3. e : Top
4. a : Top
5. s : Top
6. Top
7. Top
8. Top
9. Top
10. tr : Top
11. u : Term
12. v : Term List
13. ∀F:Top.
    list_accum(x,t.x
                   ([[t]] 1of(e) s a tr);F;v) ~ ...
14. F : Top
⊢  list_accum(x,t.x
                  ([[t]] 1of(e) s a tr);F
                                            ([[u]] 1of(e) s a tr);v) ~ ...
  by Subst [[u]] 1of(e) s a tr ~ [[unprime(u)]] 1of(e) s a tr 0

     THEN Try BackThruSomeHyp

     THEN Try (BackThruLemma `term_mng_unprime`) THEN Auto
.
END
```