Sorry if I repeat some of the things said above. The following should
work, because, just like Ben said, despite S1 and S2 are both anonimous
for the user, they are internally different for IDL. Make S2 the same as S1:

IDL> S1 = {a:0, b:.1, c:''}
IDL> S2 = S1
S2.a = 3 & S2.b = 7 & S2.c = 'x'
IDL> A = Replicate(S1,3)
IDL> A[1] = S2   ; can replace a structure.

Cheers,
Pavel

> Ah, that was easy!
>
> Now here's 'How come #2'
> I know that I can replace a given field in one of the structures.
> How come I can't replace Array element X with an identical structure (as
> I would with a named structure?)
>
> IDL> S1 = {a:0, b:.1, c:''}
> IDL> S2 = {a:3, b:7., c:'x'}
> IDL> A = Replicate(S1,3)
> IDL> A(1).c = 'q'   ;replace a field value without a
> problem
> IDL> A[1] = S2   ; can't replace a structure.
> % Conflicting data structures: S2,A.
> % Execution halted at: $MAIN$
>
> Thanks,
> Ben