```matlab
function s = solveh(x, h, delh, s_id)

eps = 1e-8;   % Set a tolerance for convergence
s = x(s_id);     % Save the current state variables

iter = 0;        % Set initial iteration to 0
% Set termination criterion
hnorm = norm(h(x),2); % norm of the constraint vector

    while(hnorm > eps)
        iter = iter+1; % Increase iteration by 1

        dhds = delh(x);
        m = dhds(:,2:3); % current dh/ds

        % Modify dh/ds when it is singular
        %%% KEEP THIS %%%
        dhds_inv = correctH(m);
        %%%%%%%%%%%%%%%%%

        s = s - dhds_inv*h(x); % Use modified dh/ds to calculate new s
        x(s_id) = s;           % Save new s to the current solution

        hnorm = norm(h(x),2); % Update termination critetion
    end
end
```