

```
function tau_w = wheel_saturate(tau_w_cmd, wh, p)

tau_w = tau_w_cmd;

% Torque limit
tau_w = max(min(tau_w, p.tau_w_max_Nm), -p.tau_w_max_Nm);

for i = 1:3

    if abs(wh(i)) >= p.wh_max_radps

        if sign(tau_w(i)) == sign(wh(i))

            tau_w(i) = 0;
        end
    end
end

end
```