# A dynamics formulation of general constrained robots 

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With reference to section 3.3 Coordinated multiple manipulators

1) The correct text for the beginning (the first two lines) of the explanation for Step 4 should begin as follows:

In Step 4, $\dot{q}_{a}=\left[\dot{q}_{1}^{T}, \dot{q}_{2}^{T}, \cdots, \dot{q}_{h}^{T}\right]^{T} \in \Re^{6 h} \quad$ with $\quad \dot{q}_{i}=\left[\dot{q}_{i 1}, \dot{q}_{i 2}, \cdots, \dot{q}_{i 6}\right]^{T} \in \mathfrak{R}^{6}, \quad i=$ $1,2, \cdots, h$, and $\dot{q}_{u}=0$ are specified. Matrix $\mathcal{T}_{a}$ is formed as
2) The correct text for the beginning (the first two lines) of the explanation for Step 8 should begin as follows:

In Step 8, $n=6 h$ is obtained from (13). Furthermore, it yields

$$
\dot{q}=\dot{q}_{a} \in \Re^{6 h}
$$

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