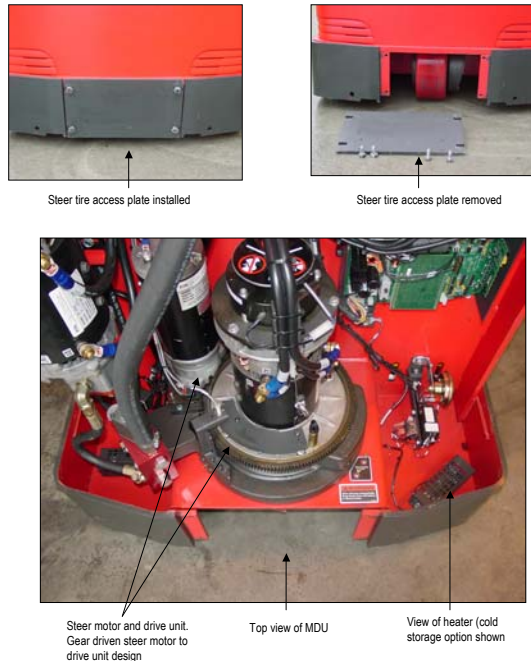


Raymond Drive Unit Assembly



The Raymond drive unit assembly features SEM (separately excited motor) technology as does the Hyster R30XM₂. There are many benefits to the SEM system.

However, the Raymond design permits the drive unit to turn in response to operator steering input. There are disadvantages to this type of design:

1. The power cables tend to become loose much quicker on this design as compared to a fix mounted drive unit. Loose connections cause performance degradation, motor and / or cable overheating.
2. The power cables have a much greater chance of getting chaffed or cut leading to a short or grounded situation. A shorted power cable can lead to an electrical fire, intermittent electrical malfunctions, or cause critical electrical components to fail. A grounded power cable can lead to many intermittent electrical problems as well as excessive battery amperage drainage.

Both of these situations lead to expensive repairs and truck downtime.

Another design related issue on the MDU is the drive tire access plate. This plate is secured with four mounting bolts and must be removed each time the drive tire needs inspection or servicing.