

2.2.2 Carriage Drive Mechanism

The carriage mechanism includes the **printhead**, the carriage, the timing belt, the carriage motor, and the platen.

The timing belt is connected to the bottom of the carriage. The belt is driven by the carriage motor and moved via the belt-driven pulley. The **printhead** is mounted on the carriage, and the entire unit is moved right and left along the carriage guide shaft and plate.

Carriage motor specifications are as follows:

Type:	4-phase, 48-pole step motor
Drive Voltage:	24 V \pm _{MV10}
Coil Resistance:	11 Ω \pm 7% at 25°C
Current Driving:	0.36 A \pm 10% (Typical) (Draft Printing) 0.28 A \pm 10% (Typical) (NLQ Printing) Holding: 0.09 A \pm 10%

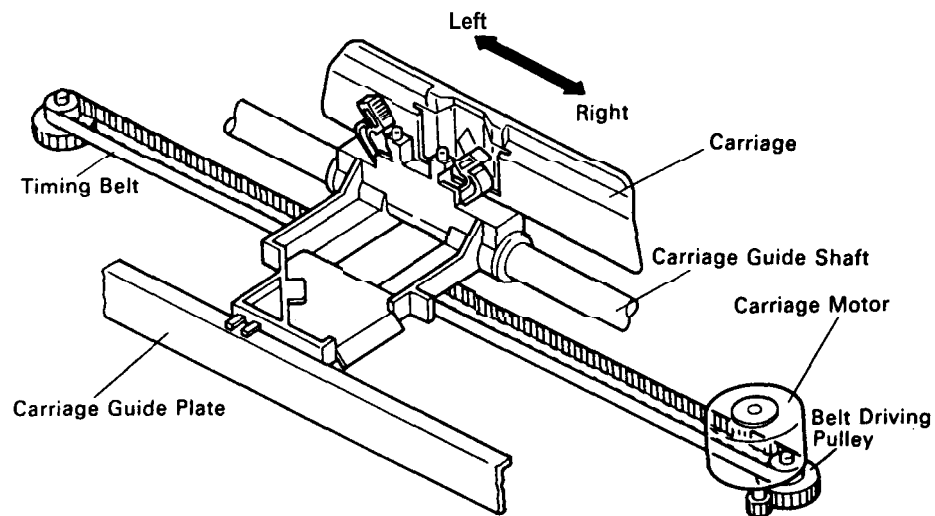


Figure 2-3. Carriage Drive Mechanism

2.2.2.1 Home Position Sensor

Following figure shows the home position sensor. The sensor switch is ON when the carriage is at the home position.

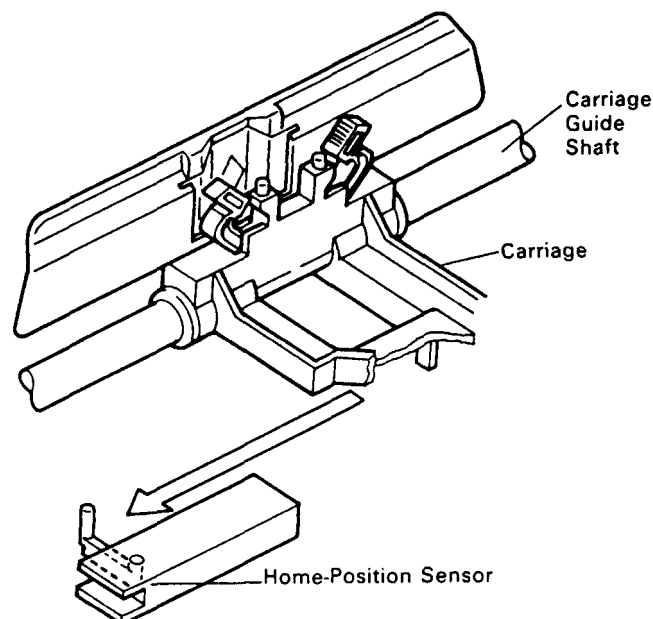


Figure 2-4. Home Position Sensor Mechanism