



A GEAR set is a series of meshed GEARS that correspond to a specific ROTOR. GEAR sets are installed on AXLES mounted to the rail. An AXLE is a  $\frac{7}{8}$ -in. diameter (~2 cm), 2-in. (~5 cm) long shaft which fits the central hub of a GEAR. The number of AXLES for each GEAR set depends on the ROTOR. Some AXLES are prepopulated with GEARS and indicated in Table 3-1. The number of pre-populated GEARS may change for District Championships or the *FIRST* Championship.

Table 3-1: GEAR set population.

	ROTOR 1	ROTOR 2	ROTOR 3	ROTOR 4
Pre-populated GEARS	0	0	1	2
PILOT placed GEARS	1	2	4	6

One GEAR, the Reserve GEAR, is staged on the AIRSHIP at the start of the MATCH at the base of the STEAM TANK, as shown in Figure 3-12.