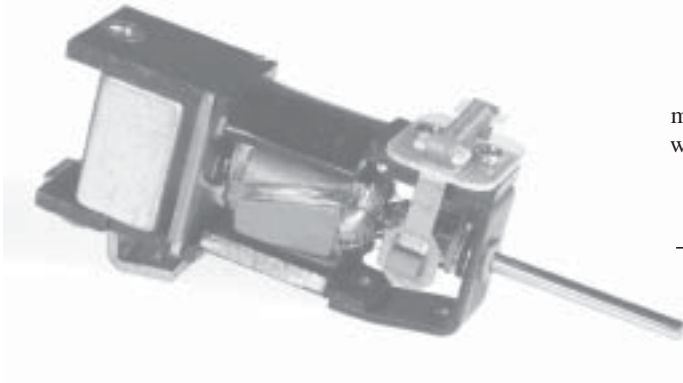


# MOTORS

	Super Motor	DC60	DC61	DC65	DC70 DC77	DC71	DC78	DC81	DC84	DC86	HO TROLLEY
BRUSHES	50606	20151	20151	86157	20171	20171	20172	86504	203181	203181	20207
SPRINGS		8535	8535	8543	8535	8535	8543	85037	85038	85038	8523
PLUNGERS		22169	22169	22189	22169	22169	22189	22169	22161	22161	22117
ARMATURES	5011	5014	5014	10025	10021	5013	10022	10027	10035	10036	5012
BRUSH PLATE or INSULATORS		22006	22006	22201	22206	20337 22192	22201	22206	22180	22180	



## NEW DC-71 MOTOR

Skew wound armature, new magnet material, straight polished shaft, and double insulated brushes for easy DCC. We recommend 2 amp & up modules for DCC. .004 HP at 9000 RPM. Dimensions: 2 1/8 long x 11/16 wide x 1 1/16"; 3/32 shaft extending approximately 11/16". Wound for 12 volt DC operation.

**Old DC-71's** with one brush grounded. For DCC insulate brushes use #22193 insulator.



**These motors will be discontinued when supply is exhausted.**  
**DC-60, 65, 77, 81, 84.**

### DC-60 MOTOR

.0019 HP at 9800 RPM. Dimensions: 1 7/8 long x 3/4" wide x 7/8" high; 3/32 shaft extending approximately 5/8". Wound for 12 volt DC operation.



### DC-77 MOTOR

.0034 HP at 13,900 RPM. Dimensions: 1 7/8 long x 11/16" wide x 1" high; 3/32 shaft extending approximately 1/2". Wound for 12 volt DC operation.



### DC-81 MOTOR

.0055 HP at 7,000 RPM. Dimensions: 2 5/6" long x 13/16" wide x 1" high; 1/8" shaft extending approximately 1/2". Wound for 12 volt DC operation.



### DC-65 MOTOR

.0034 HP at 14000 RPM. Dimensions: 1 7/32 long x 1 5/64" high x 3/4 wide" x 7/8" high; 3/32 shaft extending approximately 1/2". Wound for 12 volt DC operation.



### DC-84 MOTOR

.009 HP at 9,500 RPM. Dimensions: 1 11/16" long x 1 11/16" wide x 1 3/8" high; 1/8" shaft extending approximately 1/2" on both ends. Wound for 12 volt DC operation.