ASSEMBLY & TESTING

IMPORTANT! Read all instructions carefully before installing or wiring Turntable

MANUAL DRIVE
Attach the circular handcrank to the gearshaft, as shown in Fig. 1. Rotation of the crank will unlock the table, shift the next track position and then re-lock it. Check the table's operation by rotating it through a complete revolution. If any drag is noticed during rotation check ends of rails to make certain they do not protrude beyond turntable edge. The rails can be shifted by pressing against their ends with the flat side of a screwdriver. Note: When turntable stops at desired track location, rotate the crank through an additional full revolution to lock the table in position.

FIG. 1

Drive Unit Mounting Screws

FIG. 2

Gear Cover

FIG. 3

TERMINAL JOINERS

FIG. 4

Sliding contacts. Turntable Rail polarity will reverse when contacts cross gaps in slip-ring

TIPS FOR BEST INSTALLATION
Notching or recessing of the layout table is unnecessary; however, for best appearance and operation approach track(s) and roundhouse stalls should be mounted on roadbed. If necessary, track can approach table at slight angle, but a wood or metal shelf should be provided for support. Locate the turntable at the end of your approach track. Install end of track in any of the track notches around the table's periphery. Crank the turntable into alignment with the approach track, then sight along the tracks shifting the table to one side or the other for the best alignment. Secure the turntable to the layout with the four wood-screws provided. Before proceeding, check operation of turntable to insure that it rotates freely. If necessary, slightly loosen mounting screws. As each roundhouse stall track is installed, crank the table track to that position to check alignment before fastening it down. Be sure to leave a bit of clearance between the stall track ends and the turntable to avoid interference.

BEFORE INSTALLING TURNTABLE...

BEFORE WIRING...
Because it is impractical to illustrate all the track arrangements possible with your Atlas Turntable, it is important that you familiarize yourself with the table's wiring scheme: In order that an engine be able to move from an approach track onto the table and then into a roundhouse stall, it is necessary that the polarity of the approach and stall track rails corresponds with the polarity of the turntable rails. This is taken care of by a split slip-ring arrangement, built into the turntable as shown in Fig. 4, which automatically reverses the turntable's rail polarity when necessary. The following simple rules will enable you to wire the stall tracks correctly. For the single "A" position track directly opposite the gearbox, the lefthand rail (dashed line) must be the same polarity as the righthand terminal screw and the righthand rail (solid line) the same polarity as the lefthand terminal screw. At all other track positions, the righthand rail and the other rail must be the same polarity as the righthand terminal and the lefthand terminal. Figs. 5 through 8 illustrate several typical arrangements.
ROUNDHOUSE STALLS; One-Cab Layouts

Each roundhouse stall track must be separately controlled to allow power to be shut off under stored engines. On one-cab layouts, a very simple method uses Atlas #205 Connectors as shown in Fig. 7. Each Connector provides separate control for three stalls. Just run wires from the numbered Connector terminal screws to the correspondingly numbered track connections. All “C” (common) terminals can be connected together at any convenient place.

ROUNDHOUSE STALLS; Two-Cab Layouts

If your layout is wired for two-train operation using the common-rail system one rail of your trackage is divided into separately controllable blocks. Using an Atlas #220 Controller and Atlas #215 Selectors as shown in Fig. 8 provides a simple and easily wired method of selectively controlling and powering your turntable and its stall tracks from either of two cabs. Just run wires from the numbered or lettered terminals on the Controller and Selectors to the correspondingly identified connections on the turntable and stall tracks. The Controller governs turntable operation and the Selector provides control selectively from either cab to the four stalls. Note that the additional Selector at the right in Fig. 8 is intended for the mainline blocks for which track connections are not shown.

Further information about wiring your layout with Atlas control components can be found in the Atlas book "The Complete ATLAS Wiring Book" available at most hobby shops.