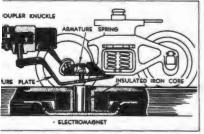
REMOTE CONTROL TRACK SETS

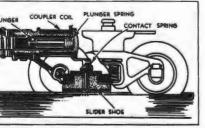
h the exception of electronic cars, which can rated anywhere on the track, all Lionel operatus and other cars equipped with electric coucan be unloaded and uncoupled only by means smote Control Track Set, Remote Control Track pusies of a special track section equipped with of control rails and a central electro-magnet two-button controller connected to the track n by a four-conductor cable.

tern remote control track set for 'O' track is ated as UCS; a similar set for '027' track is 119. These remote control sets will uncouple electro-magnetic' and 'magnetic' couplers (See Section MIS-TRUCKS) and should be used to e the earlier RCS and No. 1019 which have no electro-maguet and therefore cannot open the a 'magnetic' trucks.



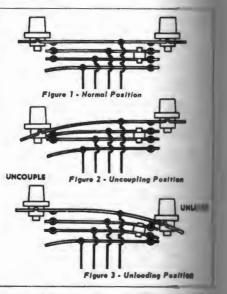
Operation of 'Magnetic' Coupler Truck

ler knuckle snaps open when mevable ermeture plate on truck m is attracted by the energized electromagnet



Operation of 'Electro-Megnetic' Coupler Truck er knuckle eners open when coupler coll is energized in truck slider shee in contect with control rell

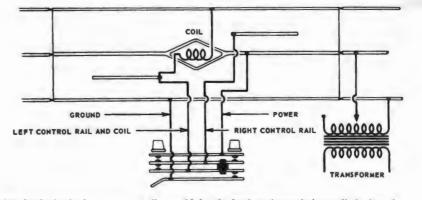
esides opening 'magnetic' couplers, the central comagnet of modern remote control sections is to control several plunger-operated cars, such e Searchlight Car and the Animated Box Car.



Although the various special track sections different each other, their controllers are identical the exception of the treatment of cable ends. The troller is a pile-up switch consisting of four flat tact springs insulated from each other by fibre sees. In sornal position (Figure 1) the four constance separated. In 'Uncouple' position (Figure 2) if spring connected to the track power rail is heat into contact with the two control rails and to the tral electromagnet. In 'Unload' position (Figure 1) one of the control rails is brought into contact the power rail the opposite control rails is needed to ground through the outside rails.

While remote control sections can be located where in the layout the best practice is to place the between two ordinary straight sections. This facilitate coupling by aligning the trucks of adjucars and avoid possible interference which may under some circumstances between accessories in ted next to the remote control section and locome coming out of a curve. Another difficulty which be experienced if the remote control section is in the ed next to a curve is that the roller of a 622 disswitcher may bridge between the center rail and of the control rails causing the switcher to une with automatically.

Figure 4 - Schematic Wiring Diagram of Remote Control Set No. 6019



Note that for fixed voltage connection illustrated below the fourth conductor which normally leads to the power rail of the remote control section is connected directly to the transformer.

Pixed Voltage Operation

In normal usage the control rails and the electromagnet are energized by the regular variable track voltage applied to the entire track system, but it is mentimes desirable to permit a remote control section located in an insulated siding, etc. to receive lixed voltage directly from the transformer so that an operating car stationed in the siding might be unbaded even though the rest of the siding is 'dead'. For this installation the controller wire which runs to the center power rail (See Figures 4, 6 and 8) should be disconnected from the remote control section and connected instead to a fixed voltage post on the transformer. To prevent a short circuit the fixed voltage and the variable track voltage circuits should have a common ground. A chart listing such fixed and variable voltage combinations for various transformers is given in section PS.

