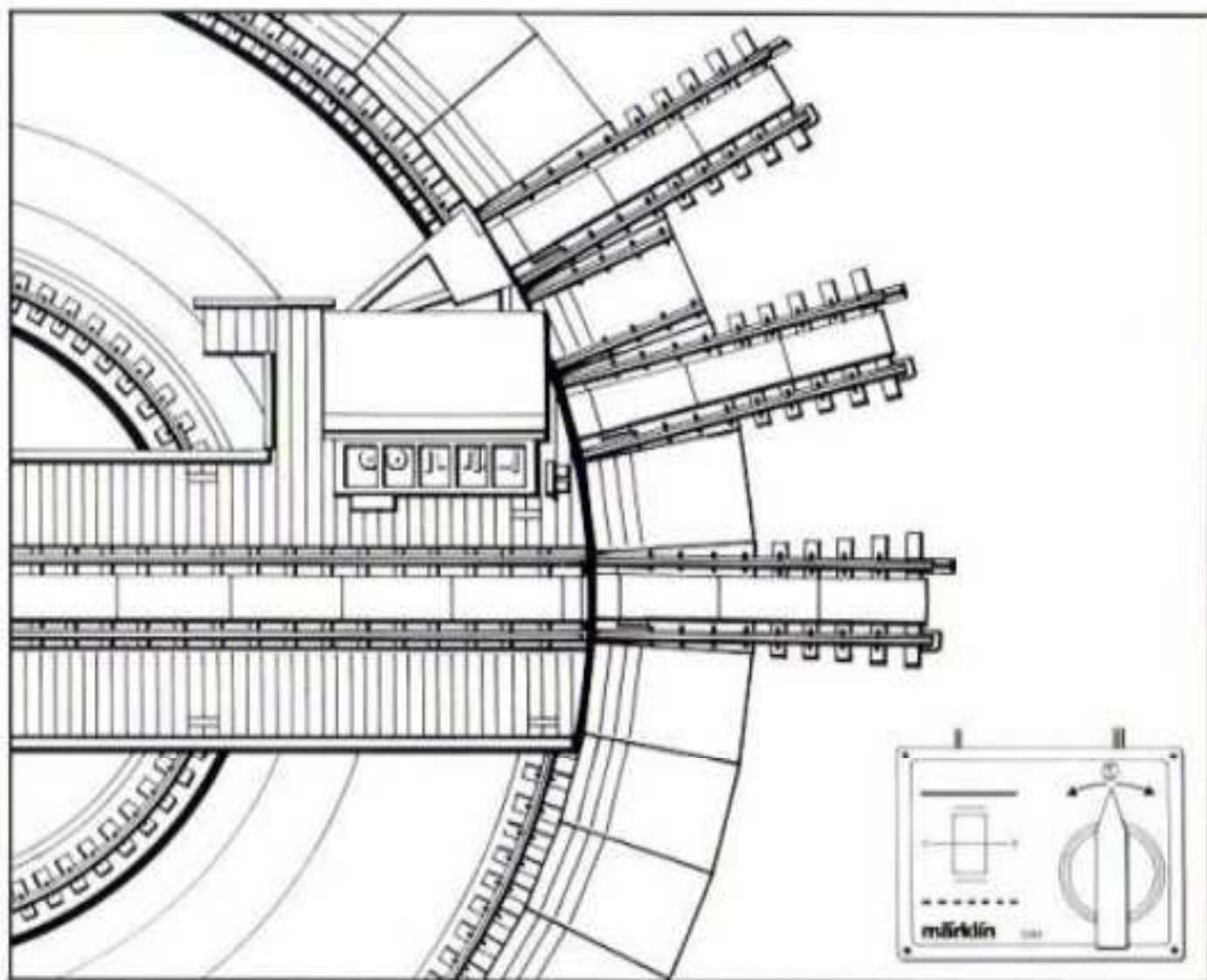


märklin
HO



**Drehscheibe
Turntable
Plaque tournante
Draaischijf**

7286

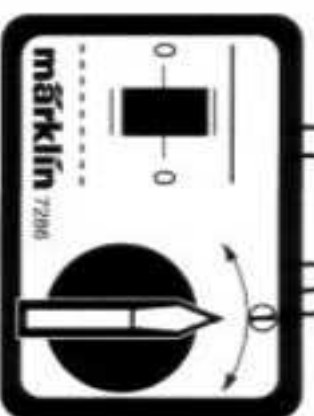
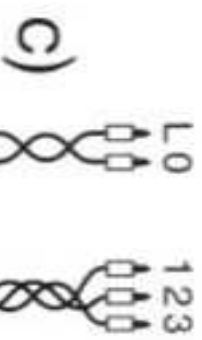
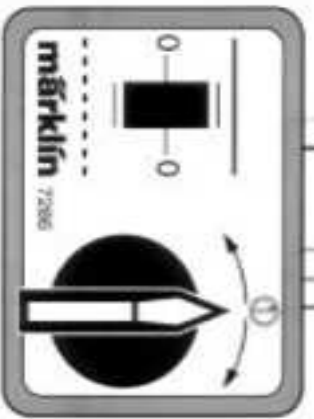
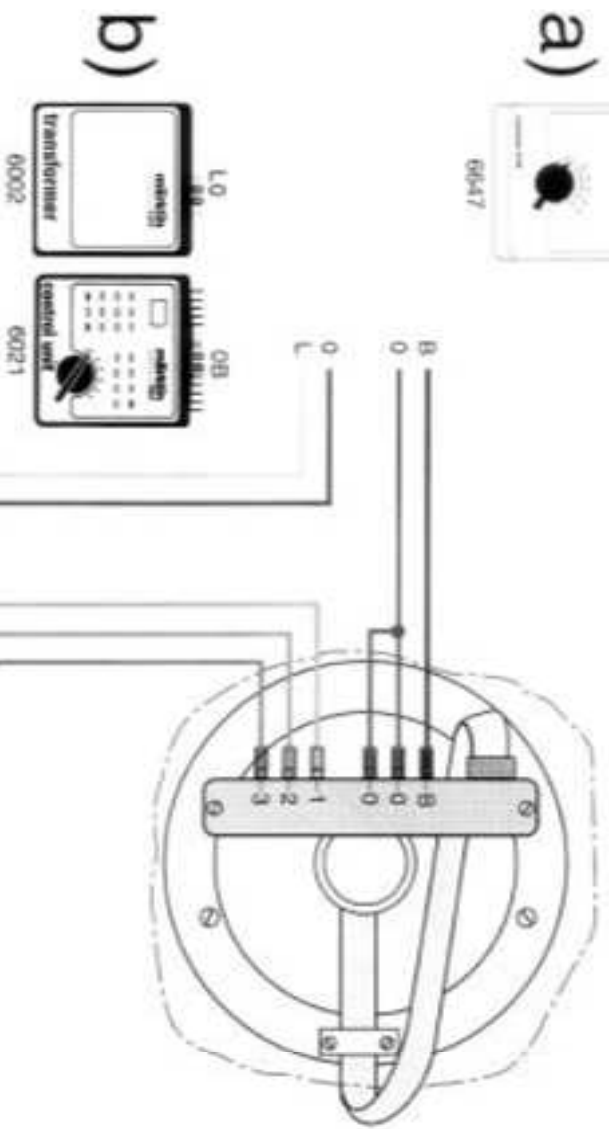
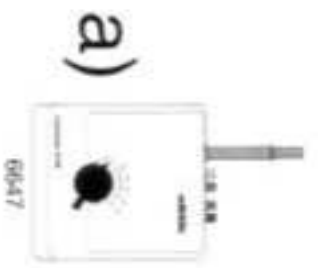


Abb. 1

Abb. 1

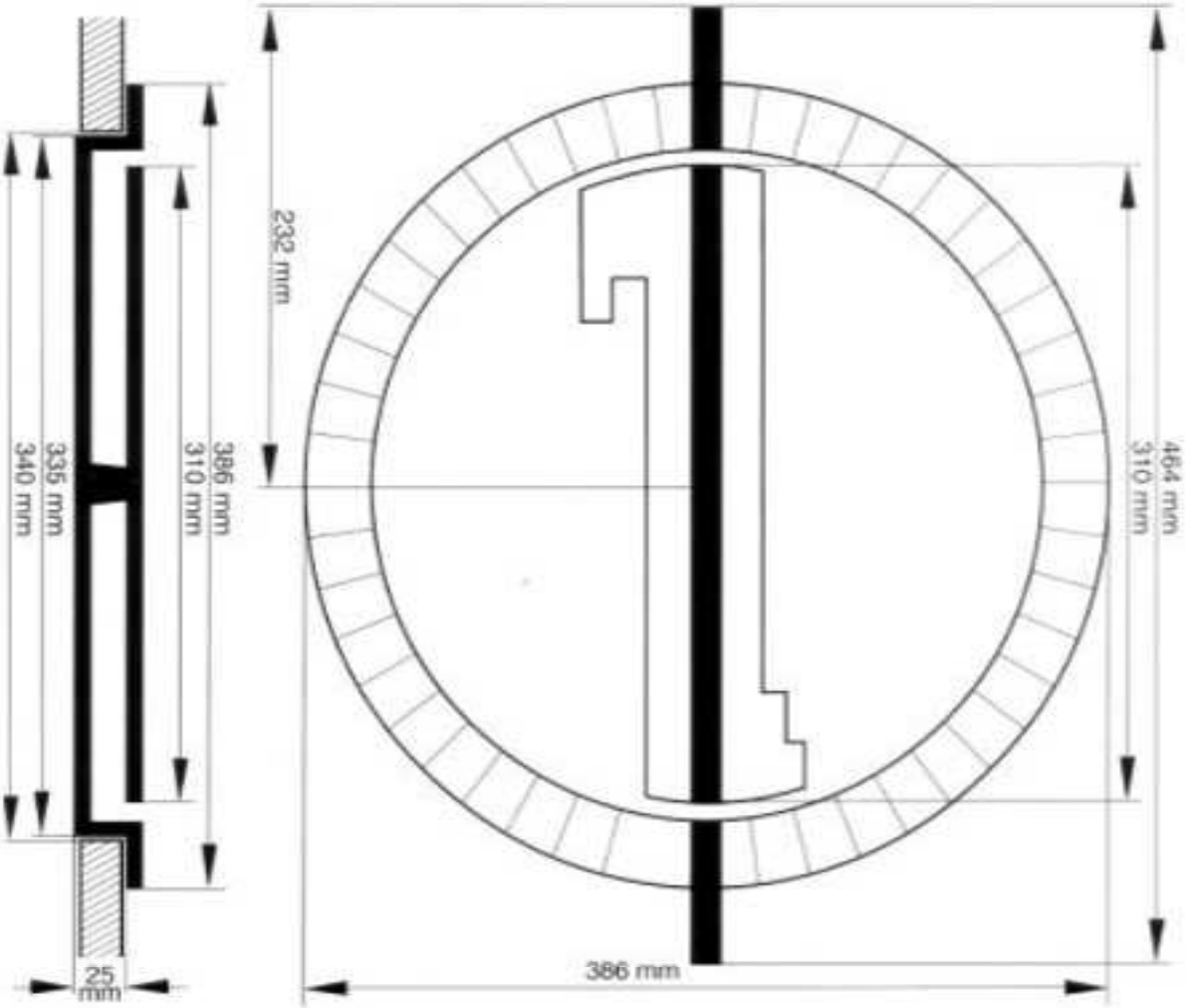


Abb. 2

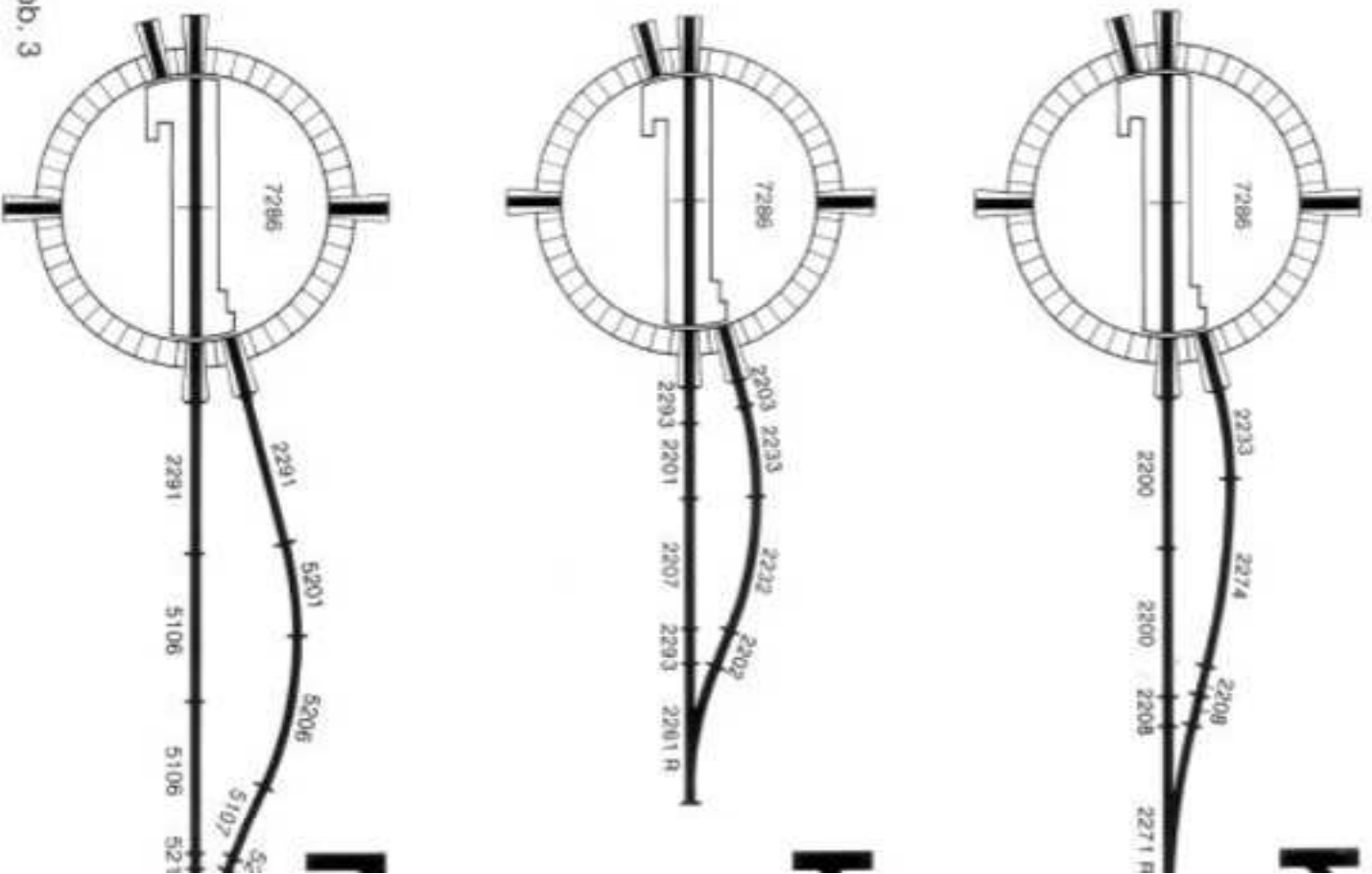


Abb. 3



Inhalt

1. Allgemeines

Kap.	Inhalt	Seite
1.	Allgemeines	1
2.	Einbau	2
3.	Anschluß	3
4.	Betrieb	4
5.	Fahrbetrieb	5
6.	Störungen	5
7.	Wartung	6

Die Drehscheibe 7286 ist sowohl **digital** als auch bei **digital** einsetzbar. Für die **Steuerung** wird neben dem mitgelieferten nur ein Transformator mit 16 nung benötigt.

Mit der **konventionellen Steuerung** kann die Drehhöhe in zu jedem gewünschten Rand oder im Dauerbetrieb beliebig werden. Dabei ist die Drehrichtung wählbar.

Durch die austauschbaren können die Gleisanschlüsse 7,5° beliebig installiert werden sind bis zu 48 Gleisanschlüsse

Die Drehscheibe ist auch für in einem Zweileiter-System ge

Mit dem **Digital-Nachrüst-Kit** die konventionelle **Märklin-Digital-Drehscheibe** 7686 den. Zur Nachrüstung muß nicht ausgebaut oder zerlegt werden anderer Fabrikate sein serienmäßig **nicht** für das 1 Set 7687 vorbereitet.

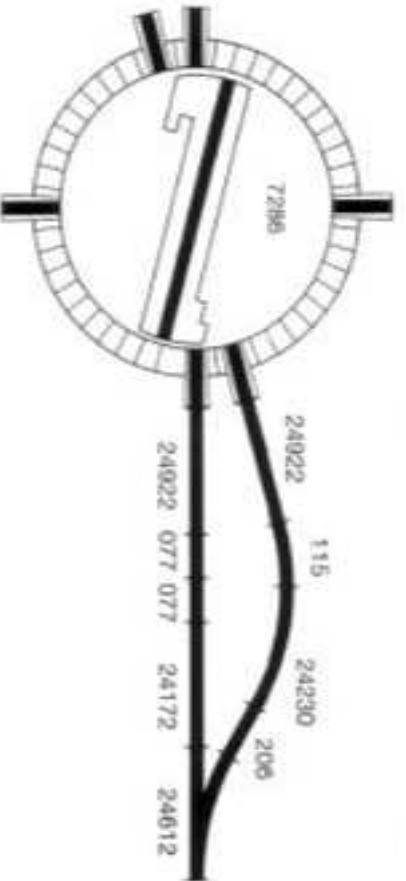


Abb. 3a

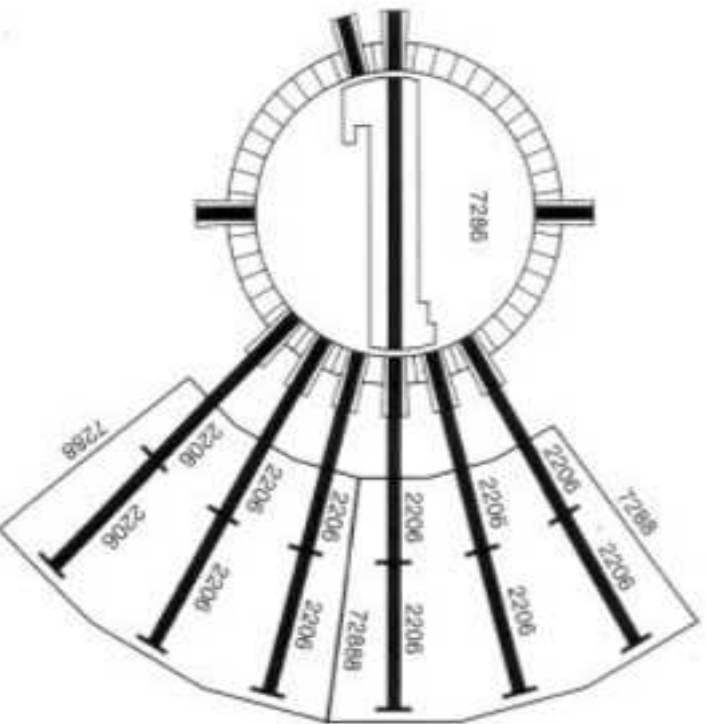


Abb. 4

Wichtiger Hinweis: Motor und Getriebe sind ab Werk ausreichend geschmiert. **Bitte nicht ölen! Beschädigungsgefahr!**

Sollten durch Verschmutzung der Stromzuführung Betriebsstörungen auftreten, kann die **Bühne ausgebaut** werden. Dazu müssen zwei gegenüberliegende Rand-Segmente abgenommen und die Bühne zwischen die Lücken gestellt werden (Abb. 6, Abb. 5). Nach Lösen der Schraube am Drehpunkt läßt sich die Bühne nach oben aus der Grube nehmen. Die Kontaktbahnen am Königstuhl und die Kontaktfedern der Bühne sind vorsichtig zu reinigen.

Achtung: Die Kontaktfedern unter der Mitte und unter den Enden der Bühne dürfen nicht verbogen werden. Bitte vorsichtig behandeln! Beim Zusammenbau ist auf den richtigen Sitz der beiden Gitterabdeckungen und der Kontaktfeder unter der Schraube zu achten (Abb. 8).

Die Mechanik des Bühnen-Antriebs ist ansonsten wartungsfrei. Bitte lassen Sie erforderliche Reparaturen an der Antriebs-Einheit nur über Ihren Fachhändler vom **Märklin-Service** ausführen! Unsachgemäße Eingriffe führen zu irreparablen Schäden!

Chapter	Contents	Page
1.	General Information	7
2.	Installation on the Layout	8
3.	Electrical Connections for the Turntable	9
4.	Operating the Turntable	10
5.	Operating Locomotives	11
6.	Trouble Shooting	11
7.	Care and Maintenance	12

The 7286 turntable can be used **digital** as well as **digital loc**tion. For control of the turntable with 16 volt alternating current in addition to the controller in the turntable.

With **conventional control** the turntable deck can be set to any desired edge set steps to any desired edge set be turned as far as desired in rotation. In either case the deck either right or left.

The interchangeable edge set the spoke tracks to be installed the turntable at 7.5° intervals. have up to 48 spoke tracks.

The turntable can also be used as a system.

The **7286 Conventional Märklin** can be converted with the **Retrofit Kit** to the easy-to-use 7686 digital turntable. The turntable have to be removed from the turntable apart for this conversion. Turntable makes are in general not equipped from their manufacturer of the 7687 Digital Retrofit

2. Installation on the Layout

The turntable is designed for a **flush mount installation** on the layout. A circular hole with a diameter of 340 mm (13-3/8") must be cut in the base board of the layout. (See ill. 2 for installation dimensions). The turntable along with the edge segments sits over this hole and is fixed in place by the spoken tracks.

The terminal strip included with the turntable is to be screwed to the mounting pegs on the underside of the turntable pit with the screws included with the unit (ill. 1).

The existing terminal strip on the 7286 Conventional Turntable is no longer needed when converting this turntable with the 7687 Digital Retrofit Kit.

The **edge segments** for the turntable are interchangeable and allow you to set up an arrangement best suited to your track layout. The 6 spoke tracks included with the turntable can be expanded by 3 tracks with the 7287 Extension Set.

To change edge segments in a particular location, the **turntable deck** must be turned away from that area. The mechanism can be released for this purpose with the hand lever opposite the engine shed (ill. 5). The deck can be turned freely with the lever pulled back to the **middle**. When releasing the lever, be sure that the deck is appropriately lined up with an edge segment.

The edge segments can be removed by pushing up on the springy **tongues** in the middle (ill. 6). Then, the spoke tracks can be inserted in the desired location (ill. 7). The edge segments with dummy tracks are inserted opposite the spoke tracks, if a spoke track is not already in that position.

The track connections are designed for **Marklin K Track**. The 2291 adapter track (ill. 3) can be used as an approach track on layouts with M Track; the 24922 adapter track (ill. 3a) is used on layouts with the new C Track.

The **7288 locomotive shed kit** with automatic closing doors can be used with the 7286 turntable. The spoke tracks for this must be set at 15" intervals and a cover plate is inserted on the edge of the turntable between the spoke tracks (ill. 4). If several locomotive sheds are to be set up directly next one another, then the external walls on the adjoining sides of two locomotive sheds are replaced with new roof supports. The parts necessary to set up a six or nine stall roundhouse locomotive shed with gapless walls are available from your local dealer as Spare Part Set 72888.

3. Electrical Connections for the Turntable

Tip: The 7286 turntable control is designed for operation with 16 volts AC. The accessory outputs (0 and L) on the Marklin transformers used for the HO system are suitable for this.

The six-pin special plug on the **flat ribbon cable** on the turntable is inserted into the corresponding sockets on the terminal strip on the underside of the turntable (note the shape of the plug indicating that it can only be inserted one way into the sockets).

The three conductor **control wire** from the controller to the turntable is connected with the plugs included with the unit to the sockets marked **1** (black wire), **2** (blue wire), and **3** (green wire) on the terminal strip on the underside of the turntable.

The **accessory power wires** to the controller are connected to the accessory sockets **L** and **0** on an accessory or a train transformer with a 16 volt AC output (ill. 1).

The existing control box for the 7286 Conventional Turntable is no longer needed when using the 7687 Retrofit Kit and digital 6040 Keyboard for digital control of this turntable.

For **conventional locomotives** sockets **B 0 0** are connected to the train control transformer (example 6627) (ill. 1 a).

For **digital locomotive control** sockets **B 0 0** for track power are connected to the Digital track power circuit (example 6627) (ill. 1 b).

The **running rails** of the turntable are electrically separated from each other for normal 3-rail operation. The two rails on the terminal strip on the underside of the turntable are connected to the rails of the layout. One of the plugs with side 1 is connected to the rails with the turntable. Otherwise the rails can be used for track detection functions, for example. It is possible to have separate connections for the two-rail locomotives (ill. 1 c).

Important information:

The wires to the controller extensions of these wires may improve noise suppression for vision reception (ill. 1 c).

4. Operating the Turntable

The **controller** is used to determine the direction in which the turntable deck is turned and the type of operation for it (Ill. 1).

The direction of rotation for single steps or for continuous operation is preselected with the **rotary switch** on the right.

→ rotation to the right (clockwise)
← rotation to the left (counterclockwise)

When the rotary switch is set for the center position, the drive mechanism for the deck is turned off.

The **sliding switch** on the left starts the turntable deck in the selected direction of rotation.

With the lower setting the - **single step** - pressing the button moves the deck over one edge segment (7.5°) and stops it automatically. These single steps are independent of the built-in track connections.

With the upper setting - **continuous operation** - the sliding switch locks in place, and the turntable deck will operate continuously. Just before reaching the desired position, the sliding switch must be disengaged and moved to the center setting - 0 -, whereby the deck will stop at the next edge segment.

Important information:

The mechanism for the turntable deck can become overloaded if the turntable is operated continuously. For this reason after every full rotation of the turntable deck (360°) the mechanism must be allowed to rest for at least 10 seconds before resuming operation of the turntable.

The turntable deck can also be moved **manually** for maintenance or conversion work. The drive mechanism can be disengaged with the hand lever opposite the operator's cab (Ill. 5). The deck is free to turn when the lever is pulled **towards the middle** of the turntable pit. It is possible to start the stage drive **on site** with the control unit connected by pressing the hand lever **outwards**.

Important note:

Do not switch the power supply to the installation off while the turntable is being operated.

5. Operating Locomotives

The **deck track** is constantly supplied with track power (conventional transformer or digital system). With digital operation an auxiliary function that has been turned on (example: headlights or smoke) remains on.

The **spoke tracks** lined up with the deck are supplied with power by the latter, all other spoke tracks are shut off. This insures that no locomotive accidentally approaches the turntable from a spoke track not aligned with the deck (especially in conventional locomotive operation).

If other approach and stall tracks are to have track power when they are not aligned with the deck (especially for digital operation), they can be supplied with power from feeder tracks (2290) or center rail and ground terminal clips (7504 and 7505). This allows digital locomotives with headlights on or smoke being generated to be stored on stall tracks.

The signal boards included with the turntable can be placed at both ends of the deck and should face outwards.

6. Trouble Shooting

Trouble with the turntable r the deck should be **started** by moving the hand lever **op ne should one or more times the edge of the turntable** (Ill 5).

Should the turntable stop be **ons** due to **power failure**, p **ting hand lever towards the** the turntable by hand to **connection**.

In case of problems during r **ple**, the deck rotates roughly **the wiring connections for t** the controller should be checked **problems in the operation of** indicate a need for maintenar

7. Care and Maintenance

Important note:

The motor and gearbox have been adequately lubricated at the factory. **Please do not oil!**
This could cause damage!

The **deck** can be **removed** if there are operating problems due to dirty electrical contacts. To do this two edge segments opposite each other must be removed and the deck moved so that it is between the two holes (ill. 6, ill 5). After loosening the screw at th pivot point for the deck, the deck can be lifted up out of the turntable pit. The contact strips on the center support and the contact springs on the deck can now be carefully cleaned.

Attention: The contact springs under the centre and under the ends of the turntable must not be bent. Please treat carefully! Make sure that the two grating covers and the contact spring are properly positioned under the screw when reassembling the deck (ill. 8).

The deck mechanism is otherwise maintenance-free. Please have all necessary repairs to the mechanism unit sent to the **Marklin Service Center** by your local dealer! Inappropriate handling will lead to irreparable damage!

Sommaire

1. Remarques générales

Chap.	Thème	Page
1.	Généralités	13
2.	Montage	14
3.	Branchement	15
4.	Fonctionnement	16
5.	Circulation des trains	17
6.	Défauts	17
7.	Entretien	18

La plaque tournante 7286 peut être utilisée en mode conventionnel ou en mode Digital. Pour commander la plaque tournante, il faut compléter le boîtier fournisseur de 16 V courant alternatif.

Avec la commande conventionnelle, le segment de bordure peut être amené à volonté, en fonction de la volonté, en fonction de la volonté de rotation peut être choisi dans tous les cas.

Grâce aux segments de bordure amovibles, les raccords de la plaque tournante n'importe où avec l'installation. Des extensions sont possibles dans tous les cas.

La plaque tournante convient à deux conducteurs.

Avec le kit de modification Digital, la plaque tournante Marklin peut être réglée et utilisée en mode Digital 7686. La plaque tournante doit être déposée ou d'être déposée. Les plaques tournantes ne sont généralement pas prévues de série pour le kit Digital 7687.