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OPERATING INSTRUCTIONS

MT-9000

Programmable Turntable,
Full Automatic Operation,
Linear Motor, Infrared Remote
Control through CB-9000
Control Center

THE FIRST NAME IN HIGH FIDELITY

NOTE: Locate turntable's serial number (shown on rear panel of unit) and record it here 



FISHER

MT-9000

SPECIFICATIONS

Motor	120 Pole Linear
Drive System	Direct
Wow & Flutter (WRMS)	0.035 %
Rumble (DIN 45539B)	-70 dB
Speed Variation	±0.3 %
Speed Control Range	±6 %
Tracking Force	2 gram
Platter Diameter	12-5/16"
Platter Weight	2.2 lbs.
Strobe Light	Yes
Record Speed Selector	33/45 rpm
Auto Function	
Start	Yes
Stop	Yes
Reject	Yes
Cueing	Yes
Repeat	Yes
Automatic Tone Arm Return at End of Record	Yes
Manual Function	
Start	Yes
Stop	Yes
Remote Control Function	
Start	Yes
Program Selection	Yes
Reject	Yes
Cueing	Yes
Stop	Yes
Tone Arm Data	
Resonance	<10 Hz
Balance Adjustment	Weight
Effective Length	222 mm
Shape	J-Form
Bearing Type	
Horizontal	Thrust
Friction Sensitivity	0.15 gram
Vertical	Pivot
Friction Sensitivity	0.2 gram
Max. Tracking Error	±1.5 °
Cartridge Supplied	Stereo Magnetic (MG-100S)
GENERAL	120 V AC ±10 %
Power Requirements	50/60 Hz
Power Consumption	4.5 Watts
Dimensions (WxDxH)	17-5/16" x 15-3/16" x 5-5/16"
Weight (approx.)	18 lbs.

*Specifications are subject to change without notice.

THE WARRANTY ON THIS UNIT DOES NOT COVER DAMAGE CAUSED BY MISHANDLING OR MISUSE.

WARNING: To prevent fire or shock hazard, do not expose turntable to rain or moisture.

INTRODUCTION: This highly sophisticated turntable was designed by FISHER to give you many years of listening enjoyment.

A novel engineering approach to the difficult task of rotating a turntable accurately and without any undesirable motions, was developed for this unit. The "Linear Motion" drive used for this purpose employs a system of 120 magnetic poles instead of the usual 4 to 24. This system achieves completely uniform rotation, virtually eliminating wow and flutter as well as rumble.

You will be pleasantly surprised by the excellent performance and stability of this unit, and will enjoy many years of dependable operation.

IMPORTANT:

Please read the following instructions carefully. They were prepared to assist you during the initial set-up and to ensure optimum performance of the turntable at all times.

UNPACKING THE UNIT

Carefully unpack the unit and put aside the turntable platter, rubber mat, counterweight, and 45 rpm adapter. It is advisable to save the carton, all fillers and mounting hardware in case it is necessary to reship the unit.

ATTACHING THE PARTS

- 1 Carefully slide turntable platter onto the turntable shaft.
- 2 Place rubber mat on turntable platter.
- 3 Push the counterweight straight onto the back end of the tone arm until it stops. Because of the factory installed cartridge/sensor, the tracking force of this turntable is not adjustable.

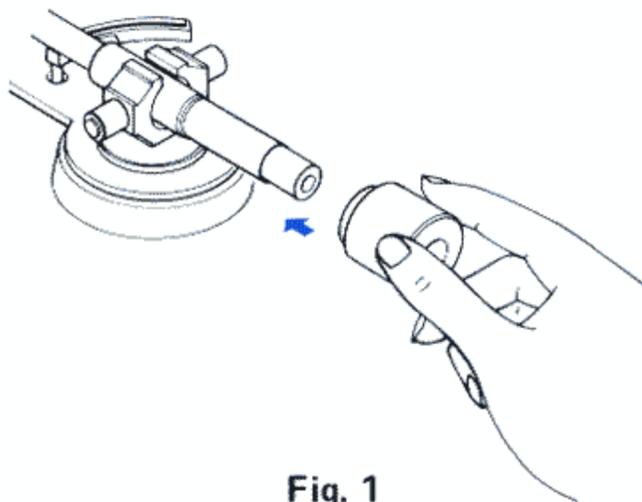


Fig. 1

CONNECTING THE TURNTABLE

- 1 Connect the two shielded cables, coming from the turntable, to the magnetic phono input jacks of CC-9000 preamplifier.
- 2 Connect the ground wire to the system ground terminal of your amplifier.
- 3 Connect turntable line cord to AC outlet of CB-9000 control center.
- 4 Connect control cable between MT-9000 and CB-9000.

DUST COVER MOUNTING

Insert the dust cover's hinges into the hinge receptacles on the back of the base.

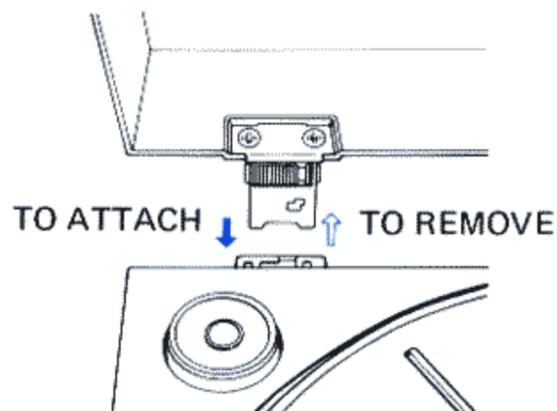


Fig. 2

REMOTE CONTROL

Your Fisher MT-9000 turntable is uniquely equipped for wireless remote control operation. The handheld remote control transmitter emits an invisible beam of infrared light which carries the control signals to the sensor window on the front of the CB-9000 control center base. Because the infrared beam travels in a straight line, the emitter on the remote control transmitter must be pointed toward the sensor window on the CB-9000 control center, and you must make sure that there are no objects between the remote control transmitter and the CB-9000 control center that might obstruct the beam. Do not install the MT-9000 turntable in a location where it will be exposed to direct sunlight. The remote control transmitter is supplied with the CB-9000 control center.

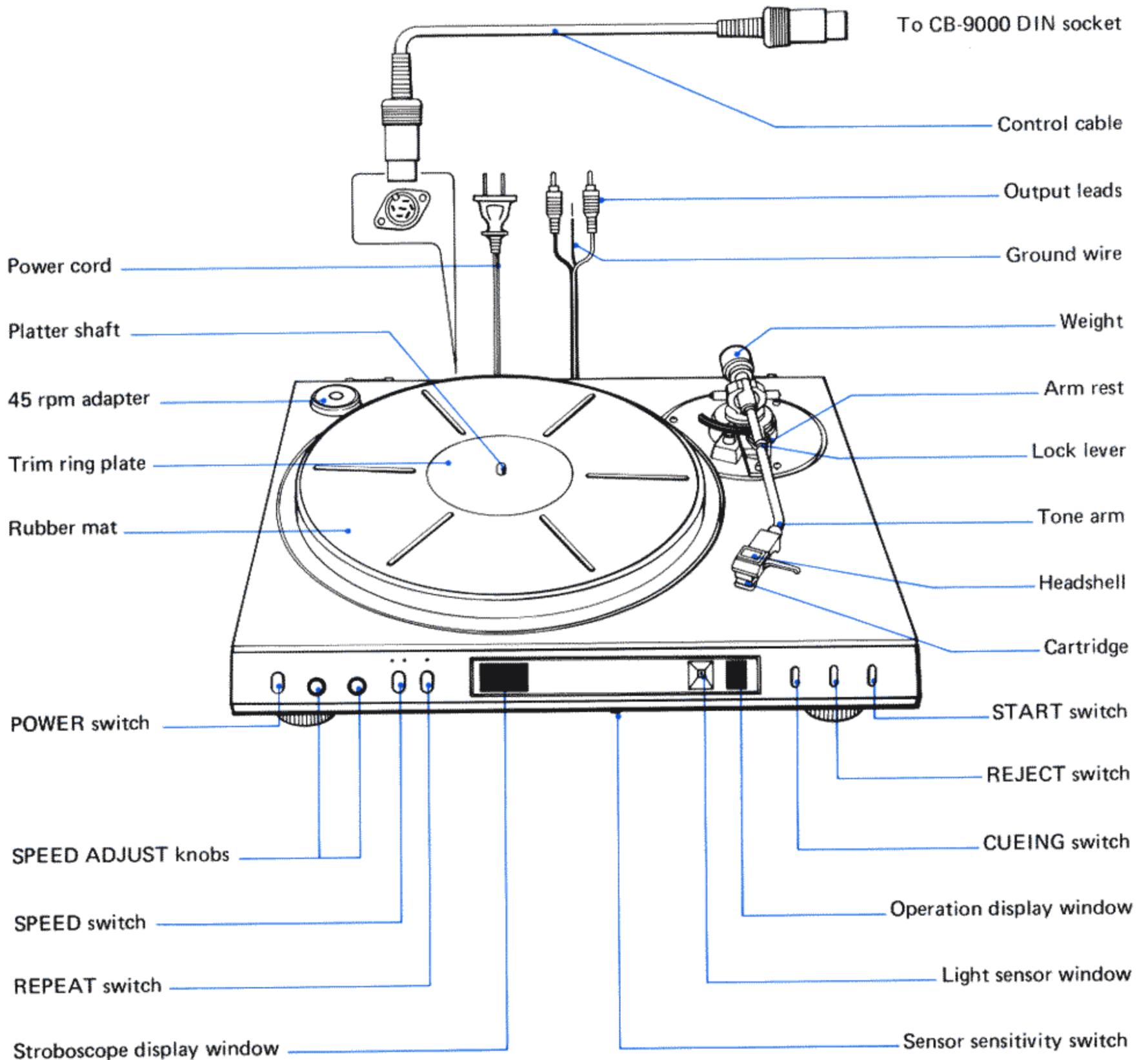


Fig. 3

TURNTABLE OPERATION

Familiarize yourself with the location of all the controls before operation turntable. (Fig. 3)

- 1 Set your receiver or amplifier to the PHONO input mode.
- 2 Raise the stylus cover.
- 3 Place a record on the turntable.
- 4 Turn the power switch on.
- 5 Set the SPEED switch to either 33 or 45.
- 6 Release the tone arm rest lock.
- 7 Depress the CUEING switch. The tone arm will rise from the rest and "1" will appear in the Operation Display Window.
- 8 Move the tone arm toward the platter, and the platter will begin to rotate.
- 9 Adjust the platter speed with the SPEED ADJUST knob so that the stroboscope pattern appears to stand still. If the pattern moves in the direction of rotation, the speed is too fast and musical notes will sound sharp. If the pattern moves in the opposite direction, the speed is too slow and musical notes will sound flat.
- 10 Press the REJECT switch. "1" will appear in the Operation Display Window, the tone arm will return to the rest and the platter will stop rotating.
- 11 Press the START switch to begin record play. Your Fisher MT-9000 can be programmed to begin play at any of the tracks on the record. If the START switch is pressed 1 time, "1" will appear in the Operation Display Window and play will begin with track 1. If the START switch is pressed 2 times, "2" will appear in the Operation Display Window and play will begin with the second track on the record. Play can be started with any track up to number 17 by pressing the START switch a corresponding number of times.
- 12 When the end of the record is reached, "E" will appear in the Operation Display Window and the tone arm will automatically rise and return to the rest.
- 13 To stop play at any time, press the REJECT switch and the tone arm will rise and return to the rest.
- 14 To interrupt play at any time, press the CUEING switch and the tone arm will rise. Press the CUEING switch again and the tone arm will descend.
- 15 To repeat the play of a record, press the REPEAT switch. When the end of the record is reached, "1" will appear in the Operation Display Window, the tone arm will rise and go back to the first track of the record and begin play. In the REPEAT mode play will always begin with the first track.
- 16 The START, CUEING, and REJECT functions may be operated from as far as about 20 feet away from the CB-9000 control center by using the appropriate switches on the Remote Control Transmitter.
- 17 Because the variable surface characteristics of vinyl records affect the performance of the sensor in the cartridge shell, the tone arm may sometimes descend on the wrong track when programmed play is attempted. If the tone arm descends on a track outside of the one selected, set the Sensor Sensitivity Switch on the underside of the base to the L (LOW) position. If the tone arm passes the selected track, set the Sensor Sensitivity Switch to the H (HIGH) position. If no difficulties with programmed track selection are experienced, leave the Sensor Sensitivity Switch in the normal M (MIDDLE) position.
- 18 When playing other than black records, automatic operation is not possible. To play colored vinyl records or records manufactured with nonstandard dimensions, the AUTO/MANUAL switch located under the platter must be set to the MANUAL position. To do this, lift the platter straight up off the turntable shaft, set the AUTO/MANUAL switch to the M position, and carefully replace the platter. For normal operation keep the AUTO/MANUAL switch set to the A position.
- 19 To operate the turntable in the MANUAL mode, press the CUEING switch and the tone arm will rise. Grasp the finger lift and carefully position the tone arm over the beginning of the record. Press the CUEING switch and the tone arm will descend and play will begin. At the end of the record, the tone arm will rise and return to the rest.

NOTE:

- When there is no record on the platter, "1" will appear in the Operation Display Window.
- When the START switch is depressed for a number of times exceeding the number of tracks on the record, "P" will appear in the Operation Display Window.

TROUBLE-SHOOTING GUIDE

Before having your turntable unit serviced, be sure to check the following and make corrections if possible, according to these instructions.

SYMPTOM	PROBABLE CAUSE	CORRECTION
<ul style="list-style-type: none"> • Turntable does not rotate. 	<ul style="list-style-type: none"> • Faulty AC power connection. 	<ul style="list-style-type: none"> • Make sure unit is plugged into a "live" AC socket.
<ul style="list-style-type: none"> • No sound is produced. 	<ul style="list-style-type: none"> • Output cords not connected. • Faulty lead wire connections in cartridge. 	<ul style="list-style-type: none"> • Connect cords to amplifier. • Re-connect lead wires.
<ul style="list-style-type: none"> • Noise is audible and there is marked sound distortion in high tonal range. 	<ul style="list-style-type: none"> • Dust accumulation on stylus. • Dusty or scratched disc surface. • Stylus is worn out. • Treble sound excessive. 	<ul style="list-style-type: none"> • Blow dust off, or use stylus brush. • Try a new, clean record. • Replace stylus. • Adjust tone control.
<ul style="list-style-type: none"> • Humming sound evident when playing a record. 	<ul style="list-style-type: none"> • Turntable and amplifier are not connected with ground wire. • Poor connections on output cords. 	<ul style="list-style-type: none"> • Connect turntable and amplifier with a ground wire at ground terminals. • Connect output cords to the amplifier correctly.
<ul style="list-style-type: none"> • Speakers howl when volume is turned up. 	<ul style="list-style-type: none"> • Improper location of turntable in relation to speakers. 	<ul style="list-style-type: none"> • Place turntable on solid surface at a distance from speakers.
<ul style="list-style-type: none"> • Tone arm does not descend if START switch is pressed. 	<ul style="list-style-type: none"> • Record color other than black. • Turntable is exposed to direct sunlight. • Stylus protector is down. 	<ul style="list-style-type: none"> • Set AUTO/MANUAL switch to M position. • Move turntable. • Raise stylus protector
<ul style="list-style-type: none"> • Tone arm does not descend on desired track. 	<ul style="list-style-type: none"> • Sensor sensitivity switch is not properly set. 	<ul style="list-style-type: none"> • Reset sensor selectivity switch.
<ul style="list-style-type: none"> • Remote control does not work. 	<ul style="list-style-type: none"> • Emitter is not aimed at sensor window. • Batteries are weak. 	<ul style="list-style-type: none"> • Aim remote control at sensor window. • Replace remote control batteries.

MAINTENANCE

Remember that your turntable is a sensitive electro-mechanical device which needs occasional maintenance.

1 Cleaning the stylus: You will occasionally note dust particle built up around the stylus. If the build-up becomes excessive it will not only result in noisy reproduction, but will eventually shorten the lives of both the record and the stylus. Should this condition occur, **DO NOT** attempt to remove the dust with your fingers or a tool. Just lift the tone arm by its handle and blow the dust away, or use stylus brush.

2 Cleaning the dust cover, cabinet and visible metal parts:

Use a clean soft cloth moistened with plain lukewarm water.

NEVER use benzol, benzine, or other strong chemical cleaners, since they could damage the finish on your unit. It is important that **NO** liquid reaches the insides of the turntable.

IMPORTANT:

It is very important to keep the rubber platter mat clean at all times. If the mat becomes dirty or stained, the tone arm may descend when there is no record on the platter, causing severe damage to the stylus. If necessary, clean the mat by wiping it with a soft cloth moistened with clear lukewarm water. Do not use detergents or solvents because they may damage the mat.

3 Your MT-9000 is equipped with a diamond stylus (needle) which will last for about 500 hours of record playing. In normal home use this means you should replace the stylus about once a year. Playing records with a worn stylus will cause distorted sound and will do permanent damage to the record grooves. To replace the stylus, follow these steps:

1. Turn off the power to the amplifier and the turntable.
2. Carefully grasp the stylus assembly and pull it forward and downward away from the cartridge body.
3. Install the ST-100SD replacement stylus assembly (available from your authorized Fisher dealer) by gently pushing it upward and backward into the cartridge body.

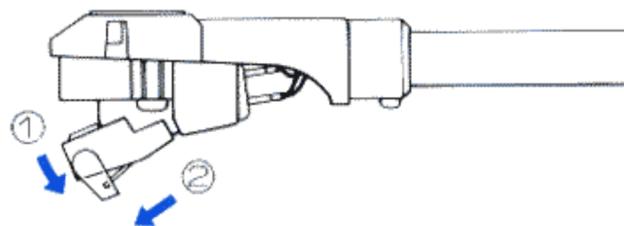


Fig. 4

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