This publication contains the installation, operation and maintenance instructions for standard units of the \textit{TMX: Mixed Flow Inline}. \par
\begin{center}
\textbf{WARNING}
\end{center}

\textbf{Rotating Parts & Electrical Shock Hazard:}

- Fans should be installed and serviced by qualified personnel only.
- Disconnect electric power before working on unit (prior to removal of guards or entry into access doors).
- Follow proper lockout/tagout procedures to ensure the unit cannot be energized while being installed or serviced.
- A disconnect switch should be placed near the fan in order that the power can be swiftly cut off, in case of an emergency and in order that maintenance personnel are provided complete control of the power source.
- Grounding is required. All field-installed wiring must be completed by qualified personnel. All field installed wiring must comply with National Electric Code (NFPA 70) and all applicable local codes. Ensure the power supply (voltage, frequency and current carrying capacity of wires) is in accordance with the motor nameplate.
- Fans and blowers create pressure at the discharge and vacuum at the inlet. This may cause objects to get pulled into the unit and objects to be propelled rapidly from the discharge. The discharge should always be directed in a safe direction and inlets should not be left unguarded. Any object pulled into the inlet will become a projectile capable of causing serious injury or death.
- When air is allowed to move through a non-powered fan, the impeller can rotate, which is referred to as windmilling. Windmilling will cause hazardous conditions due to unexpected rotation of components. Impellers should be blocked in position or air passages blocked to prevent draft when working on fans.
- Friction and power loss inside rotating components will cause them to be a potential burn hazard. All components should be approached with caution and/or allowed to cool before contacting them for maintenance.
- Under certain lighting conditions, rotating components may appear stationary. Components should be verified to be stationary in a safe manner, before they come into contact with personnel, tools or clothing.
- Failure to follow these instructions could result in death or serious injury.

\begin{center}
\textbf{Receiving and Inspection}
\end{center}

Carefully inspect the fan and accessories for any damage and shortage immediately upon receipt of the fan.
- Turn the wheel by hand to ensure it turns freely and does not bind
- Inspect inlet vane dampers (if supplied) for free operation of all moving parts
- Record on the \textit{Delivery Receipt} any visible sign of damage

\begin{center}
\textbf{Handling}
\end{center}

Lift the fan by lifting lugs.
\textit{NOTICE! Never lift by the shaft, motor or housing.}

\begin{center}
\textbf{Loren Cook Product Guide, TMX, provides additional information describing the equipment, fan performance, and available accessories.}
\end{center}

For additional safety information, refer to AMCA Publication 410-96, \textit{Safety Practices for Users and Installers of Industrial and Commercial Fans}. All of the publications listed above can be obtained from:
\begin{itemize}
  \item lorencook.com
  \item info@lorencook.com
  \item 417-869-6474 ext. 166
\end{itemize}

For information and instructions on special equipment, contact Loren Cook Company at 417-869-6474.
Storage
If the fan is stored for any length of time prior to installation, completely fill the bearings with grease or moisture-inhibiting oil (refer to Lubrication, page 6). Store the fan in its original crate and protect it from dust, debris and weather.
- Cover the inlet, and outlet opening to prevent the accumulation of dirt and moisture in the housing
- Periodically rotate the wheel and operate inlet vane dampers (if supplied) to keep a coating of grease on all internal bearing parts
- Periodically inspect the unit to prevent damaging conditions

Installation
TMX can be mounted horizontally or vertically to a floor or a ceiling in various motor positions and discharges.
Most motors are shipped mounted on the fans with belts and drives installed. However, extremely heavy motors are shipped separately, and some motors are shipped separately due to height limitations. These motors and drives will require field installation.

! NOTICE! Although a certain amount of vibration is inherent in operating fans, extreme vibration is a serious problem that may cause structural and mechanical failure.

Isolation Installation
To help prevent vibration and noise from being transferred to the building, isolators are recommended.

**Floor Mounted Spring Isolators**
1. Mount fan on isolation base or rails (if supplied).
2. Elevate fan (or isolation base) to operating height and insert blocks to hold in position.
3. Position isolators under the fan and vertically align by inserting leveling bolt through mounting holes in the fan or the base. The isolator must be installed on a level surface.
4. Adjust the isolators by turning the leveling nut counterclockwise several turns at a time alternately on each isolator until the fan weight is transferred onto the isolators and the fan raises uniformly off the blocks. Then remove the blocks.
5. Turn lock nut onto leveling bolt and secure firmly in place against the top of the mounting flange or frame.

**Floor Mounted Rubber-In-Shear (RIS) Isolators**
1. Mount fan on isolation base or rails (if supplied).
2. Elevate fan to provide room to insert isolators between the fan and foundation and block in position.
3. Position isolators under fan and secure bolts.
4. Remove blocks and allow fan to rest on floor. Isolators must be installed on a level surface (leveling should not be required).
5. Secure isolators to mounting surface.

**Ceiling Mounted Spring and Rubber-in-Shear (RIS) Isolators**
1. Elevate fan to operating height and brace.
2. Attach threaded rod to overhead support structure directly above each mounting hole. Rod should extend to within a few feet of fan.
3. Attach isolator to end of threaded rod using a nut on each side of isolator bracket.
4. Insert another section of threaded rod through the fan mounting hole and isolator.
5. Attach two nuts to threaded rod near fan mounting bracket.
6. Place adjusting nut and locking nut on threaded rod near fan mounting bracket.
7. Alternately rotate adjusting nut at each mounting location until the fan weight is uniformly transferred to the isolators. Remove bracing.

**Duct and Damper Installation**
Efficient fan performance relies on the proper installation of inlet and discharge ducts as well as dampers. Be sure your fan conforms to the following guidelines and allows three duct diameter of straight duct before placing an elbow or damper. Clearance is also required on the inlet and outlet for maintenance such as pulley or bearing replacement.

**Non-Ducted Inlet Clearance**
If your fan has an open inlet (no duct work), the fan must be placed one effective wheel diameter away from walls and bulkheads.

**Free Discharge**
Avoid a free discharge into the plenum. This will result in lost efficiency because it doesn't allow for a static regain.
Belt and Pulley Installation

Belt tension is determined by the sound the belts make when the fan is first started. The belts will produce a loud squeal which dissipates after the fan is operating at full capacity. If belt tension is too tight or too loose, lost efficiency and damage can occur.

Do not change the pulley pitch diameter to change tension. This will result in a different fan speed.

1. Loosen motor plate adjustment bolts and move motor plate in order that the belts can easily slip into grooves on pulleys. Never pry, roll or force the belts over the rim of the pulley.
2. Adjust the motor plate until proper tension is reached. For proper tension, a deflection of approximately 1/4" per foot of center distance should be obtained by firmly pressing the belt. Refer to Figure 3.
3. Lock the motor plate adjustment nuts in place.
4. Ensure pulleys are properly aligned. Refer to Figure 4.

Pulley Alignment

Pulley alignment is adjusted by loosening the motor pulley setscrew and by moving the motor pulley on the motor shaft.

Wheel-to-Inlet Clearance

The correct wheel-to-inlet clearance is critical to proper fan performance. This clearance should be verified before initial start-up since rough handling during shipment could cause a shift in fan components. Refer to wheel/inlet drawing below for correct overlap.

Adjust the overlap by loosening the wheel hub and moving the wheel along the shaft to obtain the correct value. Trim balance as necessary following procedure (0.150 in/sec max).

A uniform radial gap (space between the edge of the cone and the edge of the inlet) is obtained by loosening the inlet cone bolts and repositioning the inlet cone.

Wheel/Inlet Overlap

<table>
<thead>
<tr>
<th>Size</th>
<th>Overlap (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>90</td>
<td>5/32</td>
</tr>
<tr>
<td>120</td>
<td>3/16</td>
</tr>
<tr>
<td>135</td>
<td>3/16</td>
</tr>
<tr>
<td>150</td>
<td>7/32</td>
</tr>
<tr>
<td>165</td>
<td>7/32</td>
</tr>
<tr>
<td>180</td>
<td>7/32</td>
</tr>
<tr>
<td>202</td>
<td>1/4</td>
</tr>
<tr>
<td>225</td>
<td>9/32</td>
</tr>
<tr>
<td>245</td>
<td>5/16</td>
</tr>
<tr>
<td>270</td>
<td>5/16</td>
</tr>
<tr>
<td>300</td>
<td>3/8</td>
</tr>
<tr>
<td>330</td>
<td>13/32</td>
</tr>
</tbody>
</table>

Figure 4 indicates where to measure the allowable gap for the drive alignment tolerance. All contact points (indicated by WXYZ) are to have a gap less than the tolerance shown in the table. When the pulleys are not the same width, the allowable gap must be adjusted by half of the difference in width. Figure 5 illustrates using a carpenter’s square to adjust the position of the motor pulley until the belt is parallel to the longer leg of the square.
Wiring Installation

**NOTICE!** Lock off all power sources before unit is wired to power source.

Leave enough slack in the wiring to allow for motor movement when adjusting belt tension. Some fractional motors have to be removed in order to make the connection with the terminal box at the end of the motor. To remove motor, remove bolts securing motor base to power assembly. Do not remove motor mounting bolts.

**NOTICE!** Follow the wiring diagram in the disconnect switch and the wiring diagram provided with the motor. Correctly label the circuit on the main power box and always identify a closed switch to promote safety (i.e., red tape over a closed switch).

Use of Variable Frequency Drives

**Motors**

Motors that are to be operated using a Variable Frequency Drive (VFD) must be VFD compatible. At a minimum, this must be a Premium Efficiency motor with Class F insulation. Motors that are not supplied by Loren Cook Company should have the recommendation of the motor manufacturer for use with a VFD.

**Grounding**

The fan frame, motor and VFD must be connected to a common earth ground to prevent transient voltages from damaging rotating elements.

**Wiring**

Line reactors may be required to reduce over-voltage spikes in the motors. The motor manufacturer should be consulted for recommended line impedance and usage of line reactors or filters if the lead length between the VFD and the motor exceeds 10 ft (3m).

**Fan**

It is the responsibility of the installing body to perform coast-down tests and identify any resonant frequencies after the equipment is fully installed. These resonant frequencies are to be removed from the operating range of the fan by using the “skip frequency” function in the VFD programming. Failure to remove resonant frequencies from the operating range will decrease the operating life of the fan and void the warranty.

**Wiring Diagrams**

**Vari-Flow**

For EC or VF see EC Motor Wiring supplement. For VF2 see PM wiring supplement.

**Single Speed, Single Phase Motor**

When ground is required, attach to ground A or B with No. 6 thread forming screw. To reverse, interchange T-1 and T-4.

**2 Speed, 2 Winding, Single Phase Motor**

When ground is required, attach to ground A or B with No. 6 thread forming screw. To reverse, interchange T-1 and T-4 leads.

**Single Speed, Single Phase, Dual Voltage**

When ground is required, attach to ground A or B with No. 6 thread forming screw. To reverse, interchange T-5 and J-10 leads.

**3 Phase, 9 Lead Motor**

- **Y-Connection**
  - Low Voltage: 208/230 Volts
  - High Voltage: 460 Volts

- **Delta-Connection**
  - Low Voltage: 208/230 Volts
  - High Voltage: 460 Volts

To reverse, interchange any 2 line leads.

**2 Speed, 1 Winding, 3 Phase Motor**

To reverse, interchange any 2 line leads. Motors require magnetic control.

**2 Speed, 2 Winding, 3 Phase**

To reverse:
- High Speed - interchange leads T_{11} and T_{12}.
- Low Speed - interchange leads T_{1} and T_{2}.
- Both Speeds - interchange any 2 line leads.
Wheel Rotation
Test the fan to ensure the rotation of the wheel is the same as indicated by the arrow marked Rotation.

115 and 230 Single Phase Motors
Fan wheel rotation is set correctly at the factory. Changing the rotation of this type of motor should only be attempted by a qualified electrician.

208, 230 and 460 3 Phase Motors
These motors are electrically reversible by switching two of the supply leads. For this reason, the rotation of the fan cannot be restricted to one direction at the factory. See Wiring Diagrams for specific information on reversing wheel direction.

**NOTICE! Do not allow the fan to run in the wrong direction. This will overheat the motor and cause serious damage.** For 3-phase motors, if the fan is running in the wrong direction, check the control switch. It is possible to interchange two leads at this location so that the fan is operating in the correct direction.

Final Installation Steps
1. Inspect fasteners and setscrews, particularly fan mounting and bearing fasteners then tighten according to Recommended Torque for Setscrews/Bolts.
2. Inspect for correct voltage with a voltmeter.
3. Ensure all accessories are installed.

Operation
Pre-Start Checks
1. Lock out all the primary and secondary power sources.
2. Ensure fasteners and setscrews, particularly those used for mounting the fan, are tightened.
3. Inspect belt tension and pulley alignment.
4. Inspect motor wiring.

5. Ensure belt touches only the pulley.
6. Ensure fan and ductwork are clean and free of debris.
7. Inspect wheel-to-inlet clearance. The correct wheel-to-inlet clearance is critical to proper fan performance.
8. Close and secure all access doors.
9. Restore power to fan.

Start-Up
Turn on the fan. In variable speed units, set fan to its lowest speed and inspect for the following:
- Direction of rotation
- Excessive vibration
- Unusual noise
- Bearing noise
- Improper belt alignment or tension (listen for squealing)
- Improper motor amperage or voltage

**NOTICE! If a problem is discovered, immediately shut off the fan. Lock out all electrical power and check for the cause of the trouble. Refer to Troubleshooting.**

Inspection
Inspection of the fan should be conducted at the first 30 minute, 8 hour and 24 hour intervals of satisfactory operation. During the inspections, stop the fan and inspect as per the Conditions Chart.

30 Minute Interval
Inspect bolts, setscrews and motor mounting bolts. Adjust and tighten as necessary.

8 Hour Interval
Inspect belt alignment and tension. Adjust and tighten as necessary.

24 Hour Interval
Inspect belt tension. Adjust and tighten as necessary.

<table>
<thead>
<tr>
<th>Setscrews</th>
<th>Hold Down Bolts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Key Hex Across Flats</td>
</tr>
<tr>
<td>#8</td>
<td>5/64”</td>
</tr>
<tr>
<td>#10</td>
<td>3/32&quot;</td>
</tr>
<tr>
<td>1/4</td>
<td>1/8&quot;</td>
</tr>
<tr>
<td>5/16</td>
<td>5/32&quot;</td>
</tr>
<tr>
<td>3/8</td>
<td>3/16&quot;</td>
</tr>
<tr>
<td>7/16</td>
<td>7/32&quot;</td>
</tr>
<tr>
<td>1/2</td>
<td>1/4&quot;</td>
</tr>
<tr>
<td>5/8</td>
<td>5/16&quot;</td>
</tr>
<tr>
<td>3/4</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>7/8</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>1</td>
<td>9/16&quot;</td>
</tr>
</tbody>
</table>

Maintenance
Establish a schedule for inspecting all parts of the fan. The frequency of inspection depends on the operating conditions and location of the fan.

Regular inspections are recommended for fans exhausting non-contaminated air.

**It is recommended the following inspections be conducted twice per year:**
- Inspect bolts and setscrews for tightness. Tighten as necessary
- Inspect belt wear and alignment. Replace worn belts with new belts and adjust alignment as needed. Refer to Belt and Pulley Installation (page 3)
• Bearings should be inspected as recommended in the Lubrication Conditions Chart (page 6)
• Inspect variable inlet vanes (if supplied) for freedom of operation and excessive wear. The vane position should agree with the position of the control arm. As the variable inlet vanes close, the entering air should spin in the same direction as the wheel
• Inspect springs and rubber isolators for deterioration and replace as needed
• Inspect for cleanliness. Clean exterior surfaces only. Removing dust and grease on motor housing assures proper motor cooling. Removing dirt from the wheel and housing prevents imbalance and damage

Lubrication

Fan Bearings

TMX bearings are lubricated through a grease fitting on the exterior of the fan housing and should be lubricated by the schedule, Lubrication Conditions Chart.

For best results, lubricate the bearing while the fan is in operation. Pump grease in slowly until a slight bead forms around the bearing seals. Excessive grease can burst seals thus reducing bearing life.

Lubrication Conditions Chart

<table>
<thead>
<tr>
<th>Fan Class</th>
<th>Fan Status</th>
<th>Shaft Size</th>
<th>Maximum Interval (operation hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMX</td>
<td>Normal Conditions (clean, dry &amp; smooth)</td>
<td>&lt;1-1/2&quot;</td>
<td>2000</td>
</tr>
</tbody>
</table>

In the event the bearing cannot be seen, use no more than three injections with a hand-operated grease gun.

Before lubricating, the grease nipple and immediate vicinity should be thoroughly cleaned without the use of high pressure equipment. The grease should be supplied slowly as the bearing rotates until fresh grease slips past the seal. Excessive pressure should be avoided to prevent seal damage.

Exceptions to the greasing interval chart:
• Periodic Applications (any break of one week or more): it is recommended that full lubrication be performed prior to each break in operation
• Higher Temperature: it is recommended to halve the intervals for every 30°F increase in operating temperature above 120°F not to exceed 180°F.
• Vertical Shaft: it is recommended that the intervals should be halved

Loren Cook Company uses petroleum lubricant in a lithium base. Other types of grease should not be used unless the bearings and lines have been flushed clean. If another type of grease is used, it should be a lithium-based grease conforming to NLGI grade 2 consistency.

A NLGI grade 2 grease is a light viscosity, low-torque, rust-inhibiting lubricant that is water resistant. Its temperature range is from -30°F to +200°F.

Motor Bearings

Motors are provided with prelubricated bearings. Any lubrication instructions shown on the motor nameplate supersedes instructions below.

Motor bearings without provisions for relubrication will operate up to 10 years under normal conditions with no maintenance.

For motors with provisions for relubrication, follow intervals of the table below.

Relubrication Intervals

<table>
<thead>
<tr>
<th>Service Conditions</th>
<th>180T and Smaller</th>
<th>213T-365T</th>
<th>404T and Larger</th>
</tr>
</thead>
<tbody>
<tr>
<td>Over 1800 RPM and Les</td>
<td>Over 1800 RPM</td>
<td>Over 1800 RPM</td>
<td>Over 1800 RPM</td>
</tr>
<tr>
<td>Standard</td>
<td>3 yrs.</td>
<td>6 months</td>
<td>2 yrs.</td>
</tr>
</tbody>
</table>

Motors are provided with a polyurea mineral oil NGLI #2 grease. All additions to the motor bearings are to be with a compatible grease such as Exxon Mobil Polyrex EM and Chevron SRI.

The above intervals should be reduced to half for vertical shaft installations.

Motor Services

Should the motor prove defective within a one-year period, contact your local Loren Cook representative or your nearest authorized electric motor service representative.

Changing Shaft Speed

All belt driven fans with motors up to and including 5HP are equipped with variable pitch pulleys. To change the fan speed, perform the following:
1. Loosen setscrew on driver (motor) pulley and remove key, if equipped.
2. Turn the pulley rim to open or close the groove facing. If the pulley has multiple grooves, all must be adjusted to the same width.
3. After adjustment, inspect for proper belt tension.

Speed Reduction

Open the pulley in order that the belt rides deeper in the groove (smaller pitch diameter).

Speed Increase

Close the pulley in order that the belt rides higher in the groove (larger pitch diameter). Ensure that the RPM limits of the fan and the horsepower limits of the motor are maintained.

Pulley and Belt Replacement

1. Loosen and remove belts by adjusting motor mounting plate.
2. Remove pulleys from their respective shafts.
3. Clean the motor and fan shafts.
4. Clean bores of pulleys and coat bores with heavy oil.
5. Remove grease, rust or burrs from pulleys and shafts.
6. Remove burrs from shaft by sanding.
7. Place fan pulley on fan shaft and motor pulley on motor shaft. Damage to pulleys can occur when excessive force is used in placing the pulleys on their respective shafts.
8. Tighten in place.
9. Install belts on pulleys and align as described in Belt and Pulley Installation (page 3.)

Bearing Replacement

The fan bearings are pillow block ball bearings.
1. Loosen and remove belts by adjusting motor mounting plate.
2. Remove the inner housing cover by removing the bolts around the perimeter of the cover. Do not remove fan sheave yet.
3. Remove inlet cone by removing attaching bolts/nuts around perimeter of the inlet plate.
4. Remove wheel by loosening setscrews and sliding off shaft.
5. Record the location of the fan sheave from end of shaft, and remove the sheave.
6. Record the distance from the bearing to the end of the shaft.
7. Loosen setscrews on bearings and remove shaft.
8. Remove bearings from bearing base and replace with new ones, noting the exact location of each; do not fully tighten base bolts.
9. Slide shaft through bearings until shaft protrudes the same amount as measured above. Tapping the inner race of each bearing with a soft driver may be required. Do not hammer the end of the shaft or the bearing housing.
10. Tighten one setscrew on each bearing to half its specified torque (Page 5).
11. Rotate shaft to allow bearings to align themselves.
12. Replace wheel but do not tighten yet.
13. Replace inlet cone. Wheel may need to be moved to allow proper alignment. Care should be taken to insure that inlet cone is centered inside wheel before and after tightening attaching bolts.
14. Slide wheel on shaft to achieve proper wheel/inlet overlap and tighten wheel set screws. Refer to Wheel-to-Inlet Clearance (page 3).
15. Tighten hold-down bolts to proper torque.
16. Turn the shaft by hand. Resistance should be the same as it was before hold-down bolts were fully tightened.
17. Tighten all bearing setscrews to full specified torque.
18. Replace the sheave, align with motor sheave and adjust the belt tension.
19. Test run fan and retighten all setscrews and bolts and trim balance as necessary. (0.150 in/sec max).
20. Replace inner housing cover.

Wheel Replacement
1. Drill two holes approximately centered between the shaft and the edge of the hub outer dimension with the following dimensions:
   • 1/4” diameter
   • 3/8” to 1/2” deep
   • 180° apart in face of hub
2. Tap 1/4” holes to 5/16” thread with the 5/16” hole tap. Do not drill or tap any larger than recommended.
3. Screw the puller arms into the tapped holes full depth of threads (3/8” to 1/2” approximately). Align center of puller with center of shaft. Make certain all setscrews in hub (normally a quantity of two) are fully removed. Work puller slowly to back wheel off the shaft.

Recommended Puller:
Lisle No. 45000 Steering Wheel Puller. This puller is available at most automotive parts retail outlets.

Troubleshooting

Problem and Potential Cause

Low Capacity or Pressure:
• Incorrect direction of rotation. Make sure the fan rotates in same direction as the arrows on the motor or belt drive assembly
• Poor fan inlet conditions. There should be a straight clear duct at the inlet or outlet
• Improper wheel alignment
• Fan installed backwards. Verify airflow diagram on page 5.

Excessive Vibration and Noise:
• Damaged wheel
• Belts misaligned
• Belts too loose; worn or oily belts
• Loose fasteners
• Speed too high
• Incorrect direction of rotation. Make sure the fan rotates in same direction as the arrows on the motor or belt drive assembly
• Bearing set screws loose
• Bearings need lubrication or replacement
• Debris in impeller
• Fan surge
• See page 4 for issues regarding use of VFD

Overheated Motor:
• Motor improperly wired
• Incorrect direction of rotation. Make sure the fan rotates in same direction as the arrows on the motor or belt drive assembly
• Cooling air diverted or blocked
• Improper inlet clearance
• Incorrect fan speed
• Incorrect voltage

Overheated bearings:
• Improper bearing lubrication
• Excessive belt tension
Limited Warranty

Loren Cook Company warrants that your Loren Cook fan was manufactured free of defects in materials and workmanship, to the extent stated herein. For a period of one (1) year after date of shipment, we will replace any parts found to be defective without charge, except for shipping costs which will be paid by you. This warranty is granted only to the original purchaser placing the fan in service. This warranty is void if the fan or any part thereof has been altered or modified from its original design or has been abused, misused, damaged or is in worn condition or if the fan has been used other than for the uses described in the company manual. This warranty does not cover defects resulting from normal wear and tear. To make a warranty claim, notify Loren Cook Company, General Offices, 2015 East Dale Street, Springfield, Missouri 65803-4637, explaining in writing, in detail, your complaint and referring to the specific model and serial numbers of your fan. Upon receipt by Loren Cook Company of your written complaint, you will be notified, within thirty (30) days of our receipt of your complaint, in writing, as to the manner in which your claim will be handled. If you are entitled to warranty relief, a warranty adjustment will be completed within sixty (60) business days of the receipt of your written complaint by Loren Cook Company. This warranty gives only the original purchaser placing the fan in service specifically the right.

You may have other legal rights which vary from state to state. For fans provided with motors, the motor manufacturer warrants motors for a designated period stated in the manufacturer’s warranty. Warranty periods vary from manufacturer to manufacturer. Should motors furnished by Loren Cook Company prove defective during the designated period, they should be returned to the nearest authorized motor service station. Loren Cook Company will not be responsible for any removal or installation costs.

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