For Your Own Safety
- Always wear eye protection when using this and other power tools
- Read this Owner’s Manual before operating your Foredom tool

General Information
The Foredom® 350K2 Air Turbine Kit Contains:

| T-35A Handpiece with hose, hose adapter, and instructions |
| Air Filter/Regulator Push Fittings 3 Assorted Carbine burs |
| Owner’s Manual 6 Ft. Air Line On/Off Foot Pedal Lubricant |

The Foredom 350K2 Air Turbine Handpiece is capable of generating 350,000 RPM (revolutions per minute). Rotation is accomplished by forcing air at a maximum rate of 40 P.S.I. (pounds per square inch) across an impeller or turbine which holds the collet.

The unit generates substantial speed, but little torque, which makes it ideally suited for operations such as cutting, carving, engraving, texturing, and fine detailing with carbide or diamond points on materials such as metal, bone, stone, porcelain, plastics, glass and hard woods.

A delicate touch is required on softer material and woods, or the bur will bury itself and stall the handpiece– as is the case when too heavy a cut is attempted.

Filtered and regulated air is fed into the handpiece through an on/off foot pedal, or the air flow can be shut off and on at the regulator. Clean, dry air is an absolute requirement to the efficient running of this machine, as any foreign particles generated by or from the air source (compressor) will be thrown into the turbine and eventually clog and/or damage it.

With proper use and maintenance, the Foredom 350K2 Air Turbine can give a life time of use. However, if a few simple basics are not observed, like any other fine instrument or machine, the unit will eventually develop problems that will become exaggerated if not corrected.

Be sure that the tubing you use to connect the filter/regulator to the air source is rated for the output pressure of the compressor. The unit requires a minimum of 1.5 C.F.M. (cubic feet per minute) of air at 40 P.S.I. (1/4 HP Compressor) which is also the recommended operating pressure. If you have purchased a handpiece only, you must install an industrial filter/separator in the air line. As air is being compressed in the compressor, heat is generated that causes a temperature differential between raw air and compressed air that introduces moisture into the system which, in turn, is forced with the air into the air line feeding the handpiece. Without an in-line separator/filter, impurities such as moisture or dirt are carried with the air and forced against the turbine impeller in the handpiece and will damage the turbine.

Installation
1. Beginning with the compressor (not included), run a supply hose (not included) from the compressor to the Filter/Regulator bracket marked “IN”.
2. Insert a length of air line (clear tubing) from the feed nozzle marked “Out” on the Filter/Regulator to the source nozzle marked “IN” on the Foot Pedal. If necessary cut the air line to a convenient length. Some applications may require the air line to be secured along its length with mounting brackets to keep the line out of the way of other area activities.
3. Insert the free end of the handpiece hose into the air hose adapter (HP91002).
4. Insert the narrow end of the hose adapter hose from the handpiece to the source nozzle marked “OUT” on the Foot Pedal. To connect the air line hoses push them directly into the push fittings. Leave sufficient length to allow operator convenience and movement within the operator’s work area. Using the screw holes in the bracket, locate the Filter Regulator in a permanent position that will allow the operator to read the pressure gauge with an occasional glance to ensure that it is maintaining the required 40 PSI. Pressure that is too high can damage the turbine, and too low a pressure will result in unsatisfactory functioning of the handpiece.

If the compressor introduces any noticeable amount of moisture into the air line, it will collect in the clear separator cup. Periodically drain the water away by depressing the air valve on the bottom of the cup.

To keep the Foot Pedal stable and secure, it is a good idea to mount it either on the floor, or to a piece of heavy sheet metal or thin plywood near the operator’s foot. Once a suitable working location for the components has been found, you may want to shorten the air lines to a length that will keep them out of the way.

**Operation**

- **Always wear proper eye protection when using this and other power tools.**
- **Never operate the handpiece without a bur in the collet.**
- **Always use 1/16” (1.6mm) shank friction grip burs rated for 350,000 RPM.**
- **Tie back long hair, and avoid wearing jewelry or loose clothing.**
- **To insert a bur, push the collet release plunger and insert the bur into the collet. Make sure that the bur is fully inserted into the collet before releasing the collet release plunger. Bur removal is easy: press the collet release plunger and pull the bur out.**
- **Develop a light, but sensitive and controlled touch as bur makes contact with material.**
- **For accuracy, dexterity, and comfort, hold the handpiece loosely, but with enough pressure to maintain control.**
- **Use a suitable dust collection system that will remove not only larger dust particles, but airborne dust as well from the work area.**
- **Wear a respirator to prevent the inhalation of dust particles.**
- **Do not cover exhaust port at the rear of handpiece during use.**
- **Keep the work area clean and organized.**
- **Keep children out of the work area and away from any operating or moving machinery.**
- **Keep the foot pedal out of the way to avoid accidental starts.**