USER'S MANUAL OF AIR IMPACT WRENCH

Working environment:

- Using these tools in any potentially explosive environment is strictly prohibited.
- It is always recommended that these types of tools must be operated when standing on a solid or firm location.
- Always use these tools in a well ventilated area.
- Slipping, stumbling and falling are the major causes of potential serious injury, therefore, a clean and clutter free surface in the working area before operating the tools is strongly recommended.

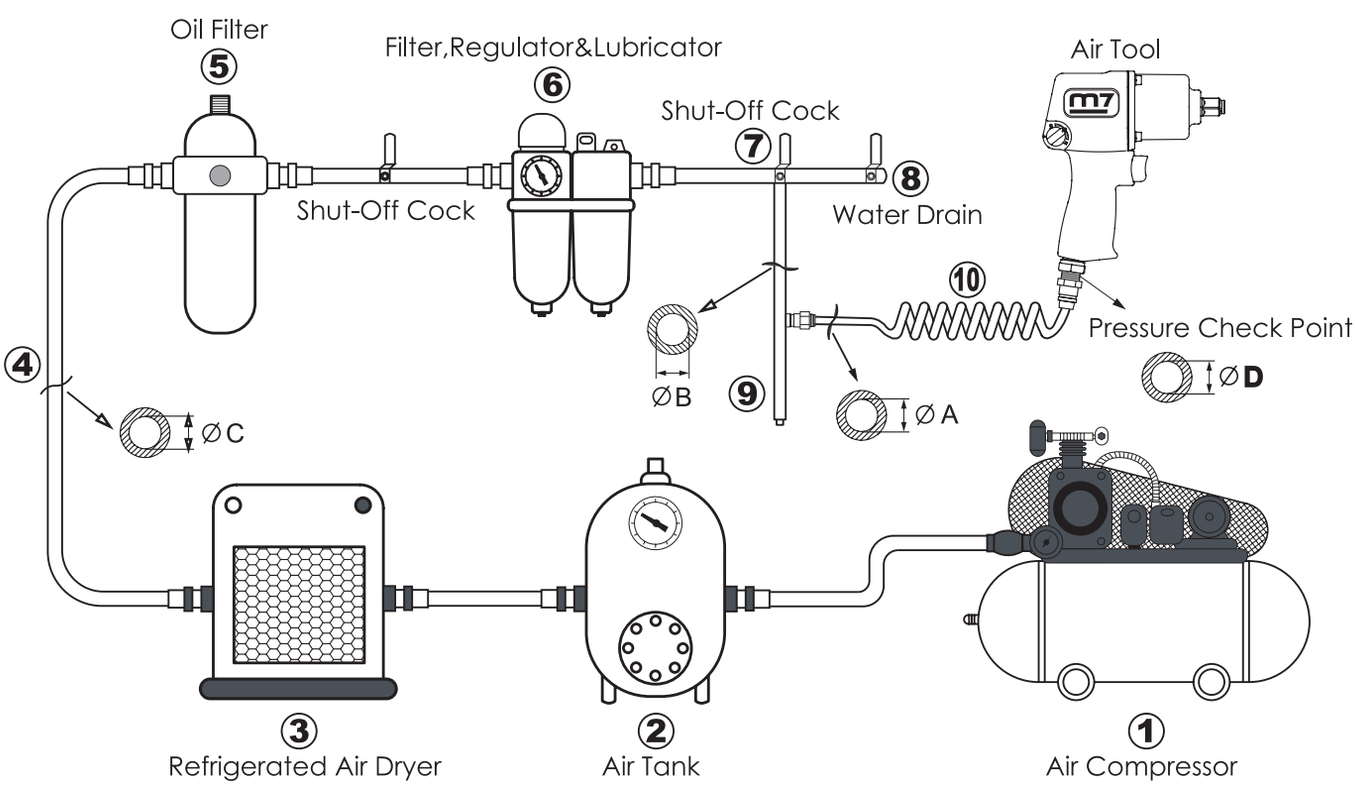
Air supply and connection requirements:

- The maximum recommended air pressure during operation must not exceed 90 psi (6.3bar). Higher air pressure may create unsafe operating conditions for the tool and the user.
- The compressed air should be cooled and have a water filter installed at the outlet end of the compressor. Even with a water filter installed, some water may still condense in the piping or hose and will enter the tool mechanism causing premature damage to the tool. Therefore, it is recommended to install an air filter-lubricator device somewhere between the tool and the compressor.
- Always use an air compressor of the proper capacity to operate each tool.
- Clean the hose with a blast of compressed air before connecting the hose to the air tool. This will prevent both moisture and dust inside the hose from entering the tool and causing possible rust or malfunction.

AIR TOOL REPAIR KITS

M7 provides specialized repairing tools for your after market need

IDEAL SYSTEM CONNECTION



PIPING DIAMETERS AND LENGTH REQUIREMENT:

- The diameter ΦA required for the inlet pipe ⑩ is recommended on the specification table.
- The diameter ΦB required for the branch pipe (from ⑦ to ⑨) should be 2 times as large as ΦA. ΦB = 2 x ΦA
- The diameter ΦC required for the primary air supply (from ① to ⑧) should be 3 times as large as ΦA. ΦC = 3 x ΦA
- The length for the inlet pipe ⑩ should be less than 15 feet (4.5m).

IMPACT WRENCH

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam.	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. Severe torque loss, but will still run at full free speed, 2. Tool will not run.	1. The rotor blades may be damaged, 2. The screws may be loose. 3. The reverse button (knob) may be out off position. 4. Some component(s) in motor housing or hammer housing may be worn off.	1. Check and replace new ones, if necessary. 2. Tighten all loose screws. 3. Adjust the button. 4. Check and replace them, if necessary.
1. Air leaks from hammer housing or rear cover.	1. The screws may be loose. 2. The gasket seal may be broken.	1. Tighten all loose screws. 2. Replace it.

Note: The consumable parts are the rotor blades, anvil and hammer.

RATCHET WRENCH

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam.	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. Severe torque loss, but will still run at full free speed, 2. Tool will not run.	1. The rotor blades may be damaged, 2. The screws may be loose. 3. The reverse button (knob) may be out off position. 4. Some component(s) in motor housing or hammer housing may be worn off.	1. Check and replace new ones, if necessary. 2. Tighten all loose screws. 3. Adjust the button. 4. Check and replace them, if necessary.

Note: The consumable parts are the rotor blades, gears and ratchet anvil.

DIE GRINDER

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam. 2. Trigger may be damaged!	1. Clean to remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Push trigger and run for several seconds to get rid of the dust. 5. Inspect the trigger, correct or replace the related component when necessary.
1. Severe torque loss, but will still run at full free speed, 2. Tool will not run.	1. The rotor blades may be damaged, 2. The screws may be loose. 3. The Air Regulator may not be in correct position. 4. The Collet Nut may be loose.	1. Check and replace with new ones, if necessary. 2. Tighten all loose screws. 3. Check and correct. 4. Check and tighten.

Note: The consumable parts are the rotor blades, bearings and collet.

AIR CUTTING OFF TOOL

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam. 2. Trigger may be damaged!	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Push trigger and run for several seconds to get rid of the dust. 5. Inspect the trigger, correct or replace the related component when necessary.
1. Severe torque loss, but will still run at full free speed, 2. Tool will not run.	1. The rotor blades may be damaged, 2. The screws may be loose. 3. The Air Regulator may not be in correct position.	1. Check and replace with new ones, if necessary. 2. Tighten all loose screws. 3. Check and correct.
Note: The consumable parts are the rotor blades and bearings.		

AIR ANGLE GRINDER

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam. 2. Trigger may be damaged!	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Push trigger and run for several seconds to get rid of the dust. 5. Inspect the trigger, correct or replace the related component when necessary.
1. Severe torque loss, but will still run at full free speed. 2. Tool will not run.	1. The rotor blades may be damaged, 2. The screws may be loose. 3. The bevel gears may not have enough grease. 4. The bevel gears may be worn off.	1. Check and replace new ones, if necessary. 2. Tighten all loose screws. 3. Apply some multiple-purpose grease. 4. Replace them.
Note: The consumable parts are the rotor blades and bearings.		

BELT SANDER

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam.	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. Severe torque loss, but will still run at full free speed. 2. Tool will not run.	1. The rotor blades may be damaged. 2. The screws may be loose. 3. The belt may not be seated correctly. 4. The bearings may be damaged.	1. Check and replace with new ones, if necessary. 2. Tighten all loose screws. 3. Adjust it. 4. Replace them.
Note: The consumable parts are the rotor blades and bearings.		

AIR SANDER

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam. 2. Trigger may be damaged!	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. Severe torque loss, but will still run at full free speed. 2. Tool will not run.	1. The rotor blades may be damaged, 2. The pad may not be correct. 3. The screws may be loose.	1. Check and replace with new ones, if necessary. 2. Check and replace with the correct one. 3. Tighten all loose screws.
Note: The consumable parts are the rotor blades and bearings.		

AIR SHEAR

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam.	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. Severe torque loss, but will still run at full free speed, 2. Tool will not run.	1. The rotor blades may be damaged, 2. The cutting blades may not be sharp enough. 3. The cutting blades may not be in the correct position. 4. The lock screws for cutting blades may be loose.	1. Check and replace with new ones, if necessary. 2. Check and replace with new ones, if necessary. 3. Check and adjust them. 4. Check and tighten.
Note: The consumable parts are the rotor blades and bearings.		

AIR SAW

1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam. 2. Trigger may be damaged!	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. Severe torque loss, but will still run at full free speed. 2. Tool will not run.	1. The rotor blades may be damaged.	1. Check and replace with new ones, if necessary.
1. Severe decrease in reciprocating speed.	1. The drive motor may be dirty.	1. Cleaning required.
Note: The consumable parts are the rotor blades and bearings.		

AIR DRILL 1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam.	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. Severe torque loss, but will still run at full free speed. 2. Tool will not run.	1. The rotor blades may be damaged, 2. The keyless chuck may be damaged.	1. Check both possibilities and replace with new ones, if necessary.
Note: The consumable parts are the rotor blades and bearings.		
AIR SCREWDRIVER 1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam.	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. Severe torque loss, but will still run at full free speed, 2. Tool will not run.	1. The rotor blades may be damaged, 2. The screws may be loose. 3. The Reverse Knob may be damaged or not in the right position. 4. The impact mechanism may be damaged.	1. Check both possibilities and replace with new ones, if necessary. 2. Tighten all the loose screws. 3. Check and adjust, or replace with a new one if necessary. 4. Check and replace with a new set, if necessary.
Note: The consumable parts are the rotor blades and bearings.		
AIR HAMMER 1. The tool runs automatically or tool will not shut off. 2. Torque decreases slightly. 3. Sound of air leaking.	1. Dust jam.	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. The tool doesn't work	1. The piston may be jammed or damaged. 2. The size of chisel may not be correct.	1. Check and replace the related component when necessary. 2. Check and replace with the correct one.
Note: The consumable parts are the throttle valve and piston.		
HYDRAULIC RIVETER 1. The tool runs automatically or tool will not shut off. 2. Power decreases slightly. 3. Sound of air leaking.	1. Dust jam.	1. Clean and remove the dust from the air inlet. 2. Clean the throttle valve. 3. Apply a few drops of recommended pneumatic oil into the air inlet. 4. Pull the trigger and run for several seconds to get rid of the dust.
1. The tool doesn't work	1. The size of rivet may not be suitable. 2. The size of rivet nose may not be correct.	1. Check and use the correct ones. 2. Check and replace with the correct one!
Note: The consumable parts are the rivet nose, jaw housing, front housing and spring.		

NOTE:

For more details about troubleshooting issues, refer to the user manual provided with each product