

**PLEASE READ AND FOLLOW ALL WARNINGS**

**Universal Tool**

**UT8893-5  
3/8-in. Angle Drill**

### Read Operating Instructions

Always become familiar with all the instructions and warnings before operating any power tool.

### Always Wear Approved

#### Eye Protection

Impact resistant eye protection should meet or exceed the standards as set forth in the United States ANSI Z87.1, Occupational and Educational Eye and Face Protection. Look for the marking Z87.1 on your eye protection to insure that it is an approved style. For further information, ANSI Z87.1, Occupational and Educational Eye and Face Protection, is available from the American National Standards Institute, Inc., 11 West 42nd Street, New York, NY 10036.

#### Hearing Protection is Recommended

Hearing protection should be used when the noise level exposure equals or exceeds an 8 hour time-weighted average sound level of 85 dBA. Process noise, reflective surfaces, other tools being operated nearby, all add to the noise level present in your work area. If you are unable to determine your noise level exposure, we recommend the use of hearing protection.

#### Avoid Prolonged Exposure to Vibration

Tools can vibrate during use. Prolonged exposure to vibration or very repetitive hand and arm movements, can cause injury. Stop using any tool if discomfort, tingling feeling or pain occurs. You should consult your physician before resuming use of the tool.

#### 90 PSIG Maximum

This tool is designed to operate at

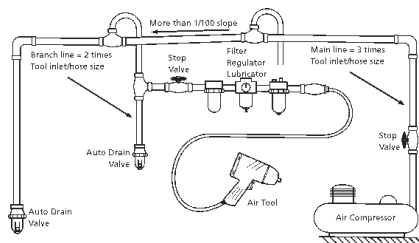
an air pressure of 90 pounds per square inch gauge pressure (90 PSIG) maximum, at the tool. Use of higher air pressure can, and may cause injury. Also, the use of higher air pressure places the internal components under loads and stresses they were not designed for, causing premature failure. The air supply should be clean and dry, preferably lubricated. For best results, drain the moisture from your compressor daily.

#### WARNING:

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks, cement and other masonry products
- Arsenic and chromium from chemically treated lumber

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area and work with approved safety equipment such as those dust masks that are specially designed to filter out microscopic particles.



Designed for continuous precision drilling for "Airframe Assembly" and "High Volume Production" applications. Machined carbon fiber blades & carbon steel motor parts allow "Oil Free" use; Highest precision engineering ensures 600,000 cycles of use ;Internal silencer baffle reduces noise pressure to 78 dBA; 0.9 HP motor ensures no slow down & clean break through. 1/4" x 28 TPI internal thread for threaded shank drill bits; Angle head and angle head parts interchangeable with leading brand.



#### Safety Instructions

The following instructions are furnished as general guidelines for use of your pneumatic tool. They cannot comprehensively cover all possible or conceivable uses of the subject tool. For additional information on the safe use of air tools, we advise you to obtain a copy of ANSI B186.1 Safety Code for Portable Air Tools, available from the following source:

American National Standards Institute, Inc.

11 West 42nd Street  
New York, NY 10036.

The use of the word "shall" in the following instructions, indicates that adherence to the particular requirement is necessary to conform to ANSI B186.1.

#### Tool Application and Usage

Portable tools shall be used only for the purposes intended in their design and within the capacity for which they were intended and rated. It shall be the tool owner's and/or employer's responsibility to instruct each operator in the safe use of the tool. Tools shall not be used without guards and safety

devices as furnished by the manufacturer. Where an air tool is modified or altered, the modifier shall provide the safeguards to enable it to be safely used in the operations intended and to comply with any applicable provisions as contained in ANSI B186.1.

#### Tool Installation

Pressure regulators shall be used to limit air pressure to the rated pressure where the supply pressure exceeds the tool's rated pressure. Air hoses and lines shall be relieved of compressed air before being disconnected or disjoined, unless there is automatic valve closing protection at the joint being separated. Synthetic lubricants which can cause deterioration of elastomer seals shall not be used in air systems of air tools.

#### Tool Maintenance

It shall be the tool owner's and/or employer's responsibility to assure that tools are maintained in a safe operating condition. Tool maintenance and repair shall be performed by authorized, trained, competent personnel. Tools shall be disconnected from their compressed air supply before repairs are attempted. Repairs shall be consistent with the manufacturer's recommended procedures. Tool, hoses and fittings shall be replaced if unsuitable for safe operation. It shall be the tool owner's and/or employer's responsibility to keep required rating markings and warnings on the tool in legible condition.

*Read these instructions carefully before attempting to install, operate or service this Florida Pneumatic product. Failure to comply with the instructions could result in personal injury and/or property damage! Retain these instructions for future reference.*

Universal Tool

A Division of Florida Pneumatic Manufacturing Corporation

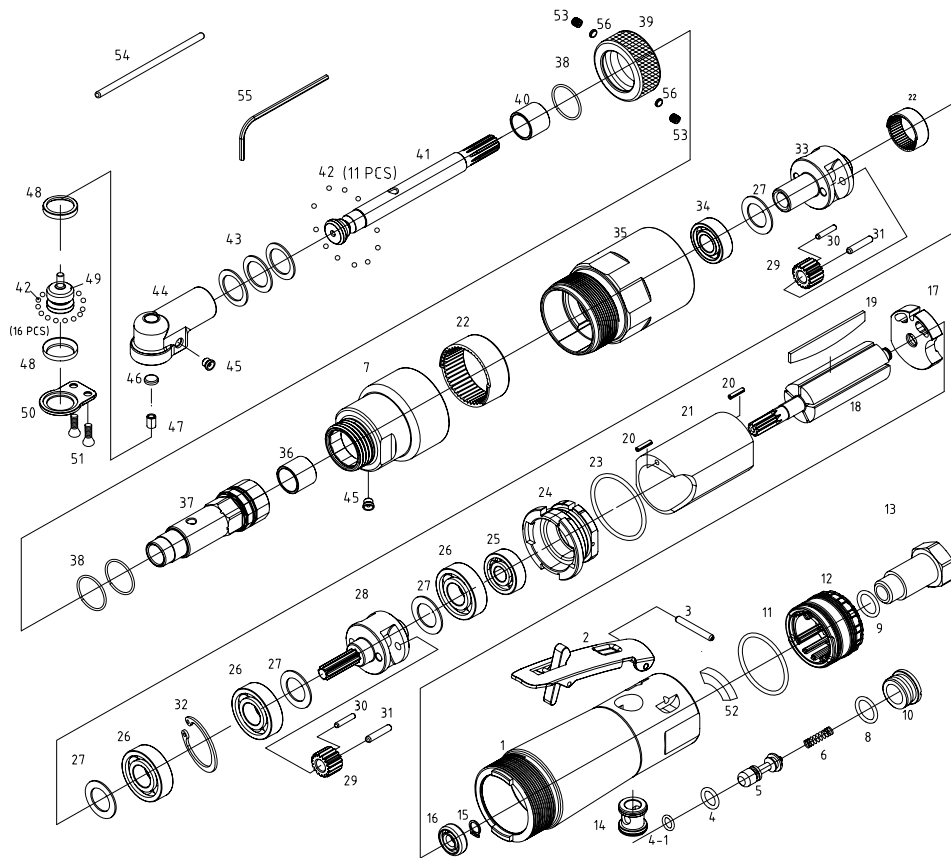
851 Jupiter Park Lane, Jupiter, Florida 33458

Toll Free 1-800-327-9403

**FPMC**

**Specifications**

<b>Chuck Capacity</b>	1/4" x 28T PI
<b>Free Speed (RPM)</b>	500 RPM
<b>Weight (lbs)</b>	2.5
<b>Length (in)</b>	10-7/8"
<b>Average Air (CFM)</b>	4.5
<b>Rec Hose Size (in)</b>	3/8"
<b>Inlet Size (NPT)</b>	1/4"
<b>Max. Pressure</b>	90 PSI



Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
1	9389301	HOUSING	1	28	9389627	GEAR CAGE	1
2	9872802B	THROTTLE LEVER ASSEMBLY	1	29	9389628	PINION GEAR	4
3	9308003	THROTTLE LEVER PIN	1	30	9389529	NEEDLES	36
4	9308004	THROTTLE VALVE O-RING	1	31	9389530	PIN	4
4-1	9308004-1	THROTTLE VALVE O-RING	1	32	9389634-1	RETAINER	1
5	9872805	THROTTLE VALVE ASSEMBLY	1	33	9389333	GEAR CAGE	1
6	9872806	THROTTLE VALVE SPRING	1	34	9389531	BALL BEARING	1
7	9389336	GEAR HOUSING	1	35	9389335	CLUTCH HOUSING	1
8	9OR-1898	VALVE CAP O-RING	1	36	9NB66	NEEDLE BEARING	1
9	9OR7718	AIR REGULATOR O-RING	1	37	9389345	ANGLE HOUSING	1
10	9168058	VALVE SCREW	1	38	9389344	LOCK RING	3
11	9633811	DEFLECTOR O-RING	1	39	9389343	NUT	1
12	9872813	DEFLECTOR	1	40	9389340	BEARING RETAINER	1
13	9872814	AIR INLET	1	41	9389341	GEAR SHAFT	1
14	9308001-B	VALVE SEAT	1	42	9389342	BEARING BALL	27
15	9389516	RETAINER	1	43	9389348	WASHER	3
16	9389518	BALL BEARING	1	44	9389349	ANGLE HEAD	1
17	9872817	END PLATE-REAR	1	45	9638047	GREASE FITTING	1
18	9389520	ROTOR	1	46	9389242	CAP	1
19	9389517	ROTOR BLADE	5	47	9NBHK0306	NEEDLE BEARING	1
20	9389521A	CYLINDER PIN	2	48	9389353	BEARING RACE	2
21	9389521	CYLINDER	1	49	9389354	GEAR SET	1
22	9389532	GEAR RING	2	50	9389355	ANGLE COVER	1
23	9389522	O-RING	1	51	9389356	SCREW	2
24	9389523	FRONT PLATE	1	52	9872811	SILENCER	1
25	9B608ZZ	BALL BEARING	1	53	9589036	SCREW	2
26	9389525	BALL BEARING	3	54	9389358	PIN	1
27	9389526	WASHER	4	55	9389360	HEX KEY WRENCH	1

**Limited Warranty**

Universal Tool warrants its tools to be free from defects in material and workmanship for one year from the date of purchase. This warranty does not apply to tools which have been abused, misused, modified or repaired by someone other than Universal Tool or its authorized service centers. If a Universal Tool proves defective in material or workmanship within one year after purchase, return it to any authorized service center or to Universal Tool, freight prepaid. Please enclose your name, address and adequate proof of purchase date with a brief description of the defect. Universal Tool will, at its option, repair or replace defective tools, free of charge. Repairs or replacements are warranted as described above for the remainder of the warranty period. Universal Tool's sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective tool. There are no other warranties expressed or implied and Universal Tool shall not be liable for incidental, consequential or special damages, or any other damages, costs or expense of repair or replacement as described above.