



# TEEJET 744E WITH 430 MANIFOLD SPRAYER CONTROL SYSTEM

The TeeJet Technologies 744E Sprayer Controller is perfect for converting hitched sprayers and small-size trailer sprayers from manual valves to electric ball valves. The 744E is available as a complete kit equipped with a back-lit pressure gauge, active boom section LED indicator, and cable kit.

The 430 Ball Valve Manifold (ordered separately) is an ideal match for the 744E and is available with a wide variety of inlet and outlet fittings to work perfectly with your sprayer.

**Features:**

- Choice of 3- or 5- switch 744E Controller
- Compatible with 430 Manifold, including Regulating Valve, 3-Way Ball Valves, Pressure Relief Valve and Strainer
- Back-lit pressure gauge for easy viewing in low light conditions
- Dual scale, 100 PSI (7 bar) pressure gauge
- LED indication of active boom sections
- Kit includes harness for TeeJet 430 Ball Valve



5-Section Controller Console (90-50255) shown

**744E Console Kits**

- Available in 3 and 5 switch models
- 430 DIN Harness with battery connection
- Valves and fittings sold separately

| PART        | DESCRIPTION                             | PRICE (B) |
|-------------|---|-----------|
| 90-50255-MD | 744E Console w/ 5-Section configuration | 1212.05   |
| 90-50254    | 744E Console w/ 3-Section configuration | 946.00    |

### How To Order A Complete 744E Series Controller with 430 Series Manifold System:

1. Choose either the 5-section or 3-section 744E Controller Console
2. Choose the corresponding 5-section or 3-section Valve Manifold
3. Choose your Inlet Fittings (2 required for manifold set-up)
4. Choose your Outlet Fittings (3 or 5 required depending on manifold)
5. Choose your Bypass Fittings (2 required for manifold set-up)
6. Optionally choose the Chemical Isolator Kit



3-Section 430 Series Valve Manifold (98600-B-433EC-2) shown

**TeeJet 430 Series Valve Manifolds**

- Available in 3 and 5 Section models
- All valve manifolds include regulating valve (1 RPM), section valves, relief valve, and strainer.
- Inlet, Outlet, and Bypass Flow fittings sold separately.

| PART            | DESCRIPTION                                | PRICE (B) |
|-----------------|--|-----------|
| 98600-B-435EC-2 | 430 Series 2-Way, 5-Section Valve Manifold | 2266.85   |
| 98600-B-433EC-2 | 430 Series 2-Way, 3-Section Valve Manifold | 1662.65   |

**TeeJet 430 Series Valve Manifold Fittings**

| Inlet Fittings (2 Required) |   |          |
|-----------------------------|---|----------|
| PART                        | DESCRIPTION                             | PRICE(B) |
| 58456-3/4                   | 3/4" Female NPT Quick Connect Kit       | 26.45    |
| 58456-1                     | 1" Female NPT Quick Connect Kit         | 26.45    |
| 58456-1/4                   | 1/4" Female NPT Gauge Port Large QC Kit | 26.45    |
| 58456-C                     | Large Quick Connect Cap Kit             | 26.45    |
| 58456-1000                  | 1" Straight Hose Barb Large QC Kit      | 26.45    |
| 58456-1-1/4                 | 1 1/4" Female NPT Quick Connect Kit     | 26.45    |

NOTE: "58456" Series Fittings also available in 1 1/4" & 1 1/2" FNPT and 1 1/4", 1 1/2", & 2" Hose Barb

| Outlet Fittings (3 or 5 Required) |   |          |
|-----------------------------------|---|----------|
| PART                              | DESCRIPTION                               | PRICE(B) |
| 45529-1/2                         | 1/2" Straight Hose Barb Quick Connect Kit | 13.70    |
| 45529-3/4                         | 3/4" Straight Hose Barb Quick Connect Kit | 13.70    |
| 45529-1                           | 1" Straight Hose Barb Quick Connect Kit   | 13.70    |
| 45529-90-1/2                      | 1/2" 90° Hose Barb Quick Connect Kit      | 13.70    |
| 45529-90-3/4                      | 3/4" 90° Hose Barb Quick Connect Kit      | 13.70    |
| 45529-90-1                        | 1" 90° Hose Barb Quick Connect Kit        | 13.70    |

| Bypass Flow Fittings (2 Required*) |                          |          |
|------------------------------------|--------------------------|----------|
| PART                               | DESCRIPTION              | PRICE(B) |
| 45529P                             | Quick Connect Plug       | 13.70    |
| 45529-90-1                         | 1" 90° Quick Connect Kit | 13.70    |
| 45529-1                            | 1" Quick Connect Kit     | 13.70    |

NOTE: \*MUST order plug (1) and hose barb (1) when using Flow Back or 3-Way section valves

| Optional Components |                       |          |
|---------------------|-----------------------|----------|
| PART                | DESCRIPTION           | PRICE(E) |
| 2300                | Chemical Isolator Kit | 112.10   |



# MATRIX® 430

## GUIDANCE. SIMPLIFIED.

### ACCURACY

| Correction Type | Pass-to-Pass Accuracy   | Year-to-Year Repeatability |
|-----------------|---|----------------------------|
| Autonomous      | +/- 12-18 in / 30-45 cm   | +/- 3 ft / 1m              |
| SBAS            | +/- 6-10 in / 15-25 cm<br><small>*Also Referred to as Sub-Meter</small> | +/- 3 ft / 1m              |

The compact Matrix 430 is an easy to use, low cost, graphical guidance system ideal for first-time users. The full-colour touchscreen display allows the operator to efficiently navigate fields with minimal skips and overlaps in coverage.

#### Matrix 430 Features and Benefits:

- High-contrast, full-colour, 4.3 inch (110 mm) graphic touchscreen display provides superior visibility in bright light conditions.
- High-Quality, internal GPS/GLONASS engine with ClearPath technology that enhances GNSS performance in areas where reception is poor or in regions where SBAS differential correction is not readily available.
- Optional RXA-30 antenna provides improved reception and noise rejection for situations where GNSS signals may be weak or partially obstructed.
- Minimal setup needed before operating.
- Guidance modes include: Straight AB, Curved AB, Circle Pivot, and Last Pass.
- Return-to-point feature allows operator to easily resume jobs or mark field hazards.
- Border function allows for easy and precise measurement of field area.
- Applied alert provides operator with audible alarm when entering into previously applied areas.
- Simple reporting function provides coverage reports in .KML or .PDF format downloaded via USB port.

#### How To Order – Choose 430 Package with either the Patch or the RXA-30 Antenna

| PART            | DESCRIPTION   | PRICE(H) |
|-----------------|---|----------|
| GD430-GL0-P-L   | Matrix 430 Kit – includes Console, GPS Patch Antenna, and US lighter power cable. | 2131.65  |
| GD430-GL0-R30-L | Matrix 430 Kit – includes Console, RXA-30 Antenna, and US lighter power cable.    | 2681.80  |

#### Accessories for Matrix 430

| PART     | DESCRIPTION                                    | PRICE(H) |
|----------|--|----------|
| 45-05645 | Cable, Power, US Lighter Adapter               | 152.40   |
| 78-50190 | Antenna, GPS Patch L1 with GLONASS             | 284.80   |
| 90-02720 | Kit, RXA-30 Antenna with 20 ft (6 meter) Cable | 813.65   |
| 90-02721 | Kit, RXA-30 Antenna with 30 ft (9 meter) Cable | 875.45   |

RXA-30 ANTENNA



PATCH ANTENNA



#### Mid-Tech 744 Control Box

- Kit comes complete with control box, all hardware, 244 Regulator, Liquid Gauge, and three 144A valves.
- Control box features lighted pressure gauge for night use and heavy-duty switches with LED indicators.

| PART     | DESCRIPTION                                | PRICE     |
|----------|--|-----------|
| 90-50163 | Complete Spray Control Kit w/ 144A valves. | 838.10(H) |
| PARTS    |  |           |
| 51-20008 | Liquid Gauge – 100 PSI                     | 16.05(E)  |
| 75-50033 | Console only                               | 392.65(H) |
| 90-50149 | Console, Bracket, Wires                    | 453.15(H) |



Power Supply Cable

Extension Cable



#### Replacement Wire Harness

- Use with 734/744 controller.

| PART     | DESCRIPTION             | PRICE (F) |
|----------|-------------------------|-----------|
| 45-20100 | Power Cable             | 57.50     |
| 45-20091 | Extension Cable 8'      | 82.50     |
| 45-20079 | Extension Cable 15'     | 141.60    |
| 45-20090 | Box to Valves Cable 8'  | 80.40     |
| 45-20089 | Box to Valves Cable 15' | 143.60    |
| 45-20088 | Box to Valves Cable 18' | 275.40    |



#### Aluminum Selector Valve

For manual selective control of 3-section boom sprayers at pressures up to 300 PSI.

- 1" Female NPT inlet and three 3/4" Female NPT outlets along with a 1/4" FNPT gauge port.
- 3/4" FNPT side connection for by-pass and pressure relief valve or for spray gun connection.
- Aluminum construction with stainless steel and plastic internal parts for maximum corrosion resistance.

| PART | DESCRIPTION              | PRICE (B) |
|------|--------------------------|-----------|
| 17Y  | Selector Valve           | 200.80    |
| AB17 | Repair Kit for 17Y Valve | 57.15     |

Note: \*Not shown



**Banjo 3" On/Off Valve**

- Female NPT or Manifold style.
- Stainless steel hardware.
- Fiberglass reinforced polypropylene.
- Glass reinforced PTFE seats.
- FKM (Viton type) or EPDM O-rings.
- 12-Volt DC operated.
- 100 PSI maximum pressure @ 70°F.
- Internally fused/automatic reset.

| PART     | DESCRIPTION                       | PRICE (C) |
|----------|-----------------------------------|-----------|
| EV300FP  | 3" FNPT, 12 Volt, 3 Sec., 3 Wire  | 2808.45   |
| MEV300CF | 3" Manifold, 12 V, 3 Sec., 3 Wire | 2808.45   |



**Banjo 12 V Valve**

- 4 second delay.

| PART    | DESCRIPTION | PRICE (C) |
|---------|-------------|-----------|
| EV075   | 3/4"        | 665.65    |
| EV100FP | 1"          | 665.65    |
| EV125   | 1 1/4"      | 665.65    |



**Banjo 12 V Valve**

- 4 second delay.

| PART    | DESCRIPTION    | PRICE (C) |
|---------|----------------|-----------|
| EV150   | 1 1/2"         | 975.75    |
| EV204FP | 2" - Full Port | 1029.95   |



**450 Series Manifold Shut-Off Valve**

- 2-Way manifold-style shut-off valve w/ 1" Female NPT outlet port.
- 0.7 Second shut-off. Flying leads.
- Sold in 1, 3, and 5 gang configurations.

| PART        | DESCRIPTION      | PRICE (B) |
|-------------|------------------|-----------|
| 451BEC-24-C | 1 Manifold Valve | 469.35    |
| 453BEC-24-C | 3 Manifold Valve | 1466.55   |
| 455BEC-24-C | 5 Manifold Valve | 2420.40   |



**Poly Relief Valves**

- Stainless steel spring.
- 1/4" blind port for pressure gauge to be drilled by customer.
- Up to 150 PSI.

| PART      | DESCRIPTION | PRICE (B) |
|-----------|-------------|-----------|
| 23120-1/2 | 1/2"        | 52.85     |
| 23120-3/4 | 3/4"        | 52.85     |
| AB23120   | Repair Kit  | 27.10     |



**244 Regulator**

- 100 PSI max., 28 GPM (5 PSI drop).
- 3/4" inlet/outlet.
- 0.15 amp draw.
- 2 wire lead for 12 V.

| PART   | DESCRIPTION | PRICE (B) |
|--------|-------------|-----------|
| 2443/4 | Regulator   | 165.15    |



**2-Way Valves**

| PART         | DESCRIPTION           | PRICE (B) |
|--------------|-----------------------|-----------|
| 344BEC23-3/4 | 3/4", 2 Sec. Shut-off | 457.75    |
| 344BEC24-1   | 1", 2 Sec. Shut-off   | 457.75    |
| 344BR2401C   | 1", 18 Sec. Shut-off  | 470.45    |
| AB344AE      | Repair Kit            | 86.95     |



**3-Way Valves**

- 2 second delay.

| PART      | DESCRIPTION | PRICE (B) |
|-----------|-------------|-----------|
| 344BEC3-1 | 1"          | 560.20    |
| AB344AE   | Repair Kit  | 86.95     |



**Diaphragm Relief Valves**

- Stainless steel springs.
- 56 GPM max. (1/2" model), 70 GPM max. (3/4" model)
- 50-300 PSI.
- Diaphragm operation.

| PART       | DESCRIPTION    | PRICE (B) |
|------------|----------------|-----------|
| 84601/2300 | 1/2" - 300 PSI | 100.75    |
| 84603/4300 | 3/4" - 300 PSI | 100.75    |
| 84601/250  | 1/2" - 50 PSI  | 100.75    |
| 84603/450  | 3/4" - 50 PSI  | 100.75    |
| AB8460     | Repair Kit     | 36.40     |



**110 Relief Valves**

- 1/4" or 3/8".
- 1000 PSI max.

| PART       | DESCRIPTION       | PRICE (B) |
|------------|-------------------|-----------|
| 1101/450   | 1/4", 50 PSI      | 85.90     |
| 1101/4300  | 1/4", 300 PSI     | 85.90     |
| 1101/4700  | 1/4", 700 PSI     | 85.90     |
| 1103/8300  | 3/8", 300 PSI     | 85.90     |
| 1103/8700  | 3/8", 300-700 PSI | 85.90     |
| 1103/81000 | 1000 PSI          | 91.95     |



**110 Series Aluminum Valves**

- Brass available on request.
- 150 PSI max.

| PART       | DESCRIPTION | PRICE (B) |
|------------|-------------|-----------|
| 110-1AL    | 1"          | 244.10    |
| 110-11/4AL | 1 1/4"      | 264.55    |
| 110-11/2AL | 1 1/2"      | 264.55    |



**6815 Relief Valves**

- Up to 1200 PSI.
- Hardened SS seats available.

| PART          | DESCRIPTION        | PRICE (B) |
|---------------|--------------------|-----------|
| 68151/250     | 1/2", 50 PSI       | 114.10    |
| 68151/2300    | 1/2", 300 PSI      | 114.10    |
| 68151/2700    | 1/2", 700 PSI      | 114.10    |
| 68151/21200HS | 1/2", 1200 PSI     | 235.15    |
| 68153/450     | 3/4", 50 PSI       | 114.10    |
| 68153/4300    | 3/4", 300 PSI      | 114.10    |
| 68153/4700    | 3/4", 700 PSI      | 114.10    |
| 68153/41200HS | 3/4", 1200 PSI     | 235.15    |
| AB6815300     | 300 PSI Repair Kit | 25.50     |