OWNER'S MANUAL

FOR THE

# In-Ex TURFMATE 50 12V SPRAYER

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# In-Ex TURFMATE 50

## OWNER'S MANUAL

(Pt.No.2400-6505 Issue 10, Nov 2016)

**TABLE OF CONTENTS**



Throughout this manual there are highlighted text boxes containing warnings, cautions and notes.
**Warnings** are mandatory instructions to prevent serious injury or permanent damage.
**Cautions** are advisory instructions to ensure reliable operation of the equipment.
**Notes** are for convenient operation.

## INTRODUCTION

The TurfMate was specifically developed for the accurate placement of liquid pesticides and fertilisers on bowling greens or any other area where maintenance of carefully cultured turf is important. Features of the TurfMate include a 50L polyethylene tank, precision 2m boom, unique breakaway system, low voltage 12V pump and accurate pressure gauge. INEX acknowledges the co-operation and assistance of New Zealand Turf Culture Institute.

## SPECIFICATIONS
**(Specifications subject to change without notice)**

| | |
|---|---|
| Tank | 50L, non-corrosive, medium density, UV stabilised polyethylene. |
| Frame | Zinc plated mild steel. |
| Pump | 12 VDC Flojet - 60 PSI, 7.6lpm pump |
| Wheels | Flat-faced heavy-duty polypropylene (Rear: 50 x 250mm) (Front: 30 x 125mm caster style). |
| Battery | 12 Volt, 10 Amp-hour. |
| Power Consumption | 4.1Amps |
| Filtration | Triple filter system comprising; fine mesh tank strainer, large capacity 50 mesh suction filter and slotted strainers at each nozzle. |
| Pressure Gauge | 0-145 PSI (0-10 Bar). |
| Switch | Toggle switch conveniently mounted on handle. |
| Boom | 2m boom with transport stowage position |
| Gun | Plastic lance style |

## ORDER INFORMATION

| | |
|---|---|
| In-Ex TurfMate | Pt.No. 1009 |

## WARRANTY

### 1 WARRANTY AND LIABILITY

**Use of the equipment**

1.1 You must satisfy yourself as to the suitability of the equipment for your intended use(s) of the equipment.

**Your relationship with the retailer**

1.2 Where you consider you have a warranty claim (or any other claim) in relation to the equipment, you must contact the retailer who sold you the equipment, not C-Dax directly. The retailer is responsible for liaising with C-Dax in respect of your claim.

**Warranty**

1.3 C-Dax warrants to the original purchaser that the equipment is sold free from defects in materials and workmanship for a period of 12 months from date of first retail sale (6 months from date of first retail sale if the equipment is sold in the U.K.) subject to the terms set out below.

1.4 C-Dax will at its option repair or replace the defective equipment (or part of the equipment) or notify the retailer of the equipment to refund the purchase price for such defective equipment to you in the event of a breach of this warranty, subject to the terms set out below.

**Liability**

1.5 Except for the warranty set out in clause 1.2 above, all warranties and representations (including those expressed or implied by law) in respect of the equipment or advice relating to the equipment provided to you by C-Dax are excluded to the extent permitted by law.

1.6 Notwithstanding anything else in this manual, C-Dax's maximum liability to you (in the event that such liability exists) in respect of any breach of warranty, any matter set out in this manual, or for defective equipment or advice relating to the equipment provided is limited at C-Dax's option to:

(a) repairing or replacing the equipment (or part of the equipment); or

(b) notifying the retailer of the equipment to refund the price for the equipment paid by you.

1.7 Notwithstanding anything else in this manual, in no event will C-Dax be liable, whether in contract, tort (including negligence) or otherwise:

(a) where you have altered or modified the equipment, misused or misapplied the equipment, or the equipment has been subjected to any unusual, excessive or non-recommended use, service or handling (including as set out in this manual);

(b) where the equipment is not transported, stored, handled or used in accordance with any directions given by C-Dax (or the retailer) to you (including as set out in this manual);

(c) where the equipment:

(i) has been subject to neglect, accident or hireage, or the damage arises from fair wear and tear, battery damage or chemical attack;

(ii) has been built to a customer's specifications; or

(iii) has been dismantled, repaired or serviced other than by an authorised service agent of C-Dax;

(d) for loss or damage caused by any factors beyond C-Dax's control; or

(e) for any loss of profit or revenue, or for any special, indirect, incidental or consequential damage, loss or injury of any kind suffered by you.

1.8 Where C-Dax elects to repair or replace the equipment it will use reasonable endeavours to do so as soon as practicable but will not be liable for any delay in doing so.

1.9 You agree that the transactions entered into between you and the retailer (and C-Dax) are for the purposes of trade and that, having regard to all relevant circumstances of the transactions, it is fair and reasonable that the provisions of the Consumer Guarantees Act 1993 (NZ) do not apply to those transactions to the fullest extent permitted by law.

## INSTALLATION

For transport purposes, the TurfMate units are sent disassembled – hence some assembly by the user is required. The following parts are included:

Handle Assembly
Battery Charger
Front Wheel Assembly
Battery
Rear Axle
Front Wheel and Boom Mount
Rear Wheel (x2)
Tank and Frame Assembly
Owner's Manual
Battery Cable
Nuts and Bolts etc.
Boom Assembly
Nozzle Assembly's (x4)

1. Slide the rear axle through the tube located on frame underneath the tank. Attach the rear wheels to this axle by sliding the wheels on to it while ensuring an M12 washer is located both sides of each wheel. Keep the wheels in position by fixing a split pin to each end of the axle.

2. Attach the handle assembly to the tank using the four M5 x 25 Screws provided.

3. Attach the boom mount to the frame by sliding the non-capped end through the frame. Secure to the frame using the M8 x 40 screw, nut and washer supplied.

4. Mount the front wheel assembly to the boom mount using the M10 nuts and washers supplied. Ensure the washers lie either side of the boom mount.

## INSTALLING THE BATTERY

The standard battery fitted is a sealed lead-acid type rated at 12 Volts 10 Ampere-Hours. The battery is shipped in a charged state. For maximum life the battery must be serviced in accordance with the following instructions. Failure to comply with these instructions will result in premature failure of the battery.

**Charging:**
Charge the battery with a current as described in the table below, continuously for not more than 4 hours.
**The supplied charger has a charging current of 2700mA and is a manual charger so must be monitored during the charging process**. The battery charger should be disconnected when the charging has been completed (battery charger light goes green). Spray switch must be in the ON position in order for the charging circuit to be completed.

| PHYSICAL SPECIFICATION | | |
|---|---|---|
| Nominal Voltage<br>Nominal Capacity (20HR) | | 12V<br>10AH |
| Dimension | Length<br>Width<br>Container Height<br>Total Height (with Terminal) | 151 ± 1mm (5.95 inches)<br>65 ± 1mm (2.56 inches)<br>111 ± 1mm (4.37 inches)<br>117 ± 1mm (4.61 inches) |
| Weight | | Approx 3.30kg (7.28lbs) |
| Terminal Type | | T2 |

| ELECTRICAL SPECIFICATION | | | | | |
|---|---|---|---|---|---|
| Rated Capacity | 20 hour rate (500mA)<br>10 hour rate (930mA)<br>5 hour rate (1.70A)<br>1 hour rate (6.20A)<br>15minute rate (19.6A) | 10.00AH<br>9.3AH<br>8.5AH<br>6.2AH<br>4.9AH | Constant-Voltage Charge | Cycle | Initial Charging Current less than 3.6A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C |
| Capacity affected by Temperature | 40°C (104°F)<br>25°C (77°F)<br>0°C (32°F) | 103%<br>100%<br>86% | | Standby | No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C |

## TURFMATE INSTALLATION CONT.

5. Fix the boom frame to the boom mount by sliding through the bracket and fixed using the M8 x 40 screw, nut and washer supplied. Assemble the boom by pressing the button latch on each arm and sliding the arm into the boom frame (See the parts diagram for further detail).

6. Assemble the nozzle tips and filters by placing inside each of the boom's nozzle bodies.

7. Attached to the tank is a small plastic bag containing a rubber washer and orifice plate. Take these items and place inside the red bypass tap. Connect this tap to the fitting at the top of the tank.

8. Connect the two hose ends via the quick coupler.

9. Please read the battery information in this manual before recharging the battery.

10. Once the battery has been charged, take off the pump cover and place the battery in the recess moulded into the tank. Connect the black wire from the switch to the negative (-) terminal on the battery. Connect the red wire from the switch to the positive (+) terminal on the battery. Join the female 2-pin connector from the switch to the male connector on the pump. Screw the pump cover back on.

**NOTE**

The Turfmate is supplied with a handgun and 5m of delivery hose, when the gun and hose is not being used, simply wrap the hose around the handle hook and store the lance in the lance holder mounted to the side of the tank.

## TESTING

Plug the battery lead into the pump lead, place water in the tank and switch on the pump using the remote switch on the handle. Note that the pump primes more efficiently by removing the checkvalve. Reconnect once the fluid has passed through the pump.

Check for nozzle blockages, air in the inlet hosing (between tank and pump), and water leaks. Tighten hose clamps and other plumbing fittings as required. When the pump is turned off there should be no drips from the nozzles.

The pressure gauge may not return to zero with the pump is switched off. The non-drip checkvalves on the boom do not open unless the pressure in the boom is above 5 to 7 PSI (0.35 to 0.5 Bar), so with the pump off, some pressure may still be in the tubing from pump to boom.

## THEORY OF OPERATION

Spray fluid is prepared and placed in the tank via the lid opening and strainer basket. Foreign matter is trapped in the strainer mesh for disposal after the tank has been filled.

When the pump is switched on power is applied to the pump motor from the battery. When the pump operates, fluid is drawn through the filtered suction line into the pump head.

With each rotation of the pump motor, fluid is forced via valves into a high-pressure chamber in the pump head. Fluid exits from the chamber via a check valve and passes into the boom or spray nozzle.

## OPERATING INSTRUCTIONS

**Application Rate**
Achieving the correct chemical application rate to the turf is only possible when the operator knows:

a) Nozzle spacing
b) Flow rate per nozzle and
c) Forward speed of sprayer

The above parameters have been used to establish the following Performance Data chart. This chart shows application rate of spray solution in litres per 1,000 square metres (1196 square yards) and area covered by the 50 litre tank in square metres at each forward speed and nozzle flow rate.

**Performance Data Chart**

| Average Flow Rate per Nozzle | Application Rate at each Forward Speed ($L/1000m^2$ at km/hour) | | | | Area Covered by 50 litre Tank ($m^2$ at km/hour) | | | |
|---|---|---|---|---|---|---|---|---|
| (litres/minute) | 2 | 3 | 4 | 5 | 2 | 3 | 4 | 5 |
| 0.95 | 57 | 38 | 28.5 | 22.8 | 880 | 1320 | 1754 | 2190 |
| 0.90 | 54 | 36 | 27.0 | 21.6 | 930 | 1390 | 1850 | 3210 |
| 0.85 | 51 | 34 | 25.5 | 20.4 | 980 | 1470 | 1960 | 2450 |
| 0.80 | 48 | 32 | 24.0 | 19.2 | 1040 | 1560 | 2080 | 2600 |
| 0.75 | 45 | 30 | 22.5 | 18.0 | 1110 | 1670 | 2220 | 2780 |
| 0.70 | 42 | 28 | 21.0 | 16.8 | 1190 | 1780 | 2380 | 2970 |

1. Put water in the tank, switch on pump, and measure the volume of liquid from each nozzle in one minute. The total volume collected divided by the number of nozzles is the Flow Rate per Nozzle in litres per minute.

2. Calculate the forward speed of sprayer by measuring time taken to walk 20 metres:
   20 metres in 36 seconds is 2 km/hr
   20 metres in 24 seconds is 3 km/hr
   20 metres in 18 seconds is 4 km/hr
   20 metres in 14.4 seconds is 5 km/hr

3. Determine application rate of spray solution to turf by using the above chart.
   e.g. If the average flow rate is 0.9 litres/minute and the forward speed is 3 km/hour, the application rate is 36 litres per 1,000 square metres. (36 litres per 1,000 square metres is equivalent to 3.6 litres per 100 square metres or 360 litres per hectare).

4. Determine chemical required per tank by calculating the recommended chemical application rate per metre then multiplying that figure by the area (in metres) covered per tank as shown in the chart.
   e.g. Average nozzle flow rate is 0.9 litres/minute and the forward speed 3 km/hour will result in 1,390 square metres sprayed. If say Banvine is used at 40ml per 100 square metres (0.4 x 1,390ml) or 556ml is required per tank.

## RECIRCULATION

The Turfmate can recirculate the spraying fluid and allow the pump to prime fully before spraying commences. The recirculated flow, which is returned to the tank, provides a degree of agitation of the tank contents.

To recirculate fluid perform the following steps:

- Open the recirculate valve.
- Switch the pump on.
- Allow pump to run until all air is expelled from the pump suction line.
- Close recirculate valve to begin spraying.

**NOTE**

Pump will not purge air from sprayboom until recirculate valve is closed and fluid is pumped through the boom, this may take a short period of time and it is recommended this be done before spraying commences on target areas.

## OPERATING HINTS

**Pressure Gauge**
The pressure gauge will indicate any variation in flow rates. If the pressure reading is suddenly higher than normal then nozzle flow rate has been reduced by a slight blockage or kinked hose. If pressure is lower than normal, either the battery charge is low, the pump is faulty or there is a leak in the hosing or fittings. Air should not be in the hosing. If air is present, check the fittings between the tank and pump.

The nozzles may wear eventually after many years but in turf spraying, especially at the low pressures used, nozzle wear will not cause major pressure fluctuations.

**Nozzles**
Be wary of blockages or of any distortion in the spray pattern. The bayonet nozzle cap aligns the nozzle and retains both nozzle and slotted filter. Routinely check these filters, removing the cap by twisting half a turn clockwise.

**Checkvalves**
The non-drip checkvalves (located inside or under nozzle cap) should eliminate dripping. If dripping continues after pump shutoff, unscrew the collar on the checkvalve and ensure that the diaphragm is sound and that there is no debris.

**Pump**
If a slight leak develops from between the pumphead components, gently tighten the pumphead screws. If however, the leak persists or if a leak is observed from between the pumphead and the motor itself, cease operation immediately and have the pump serviced.

**CAUTION**
Do not run the pump dry unnecessarily

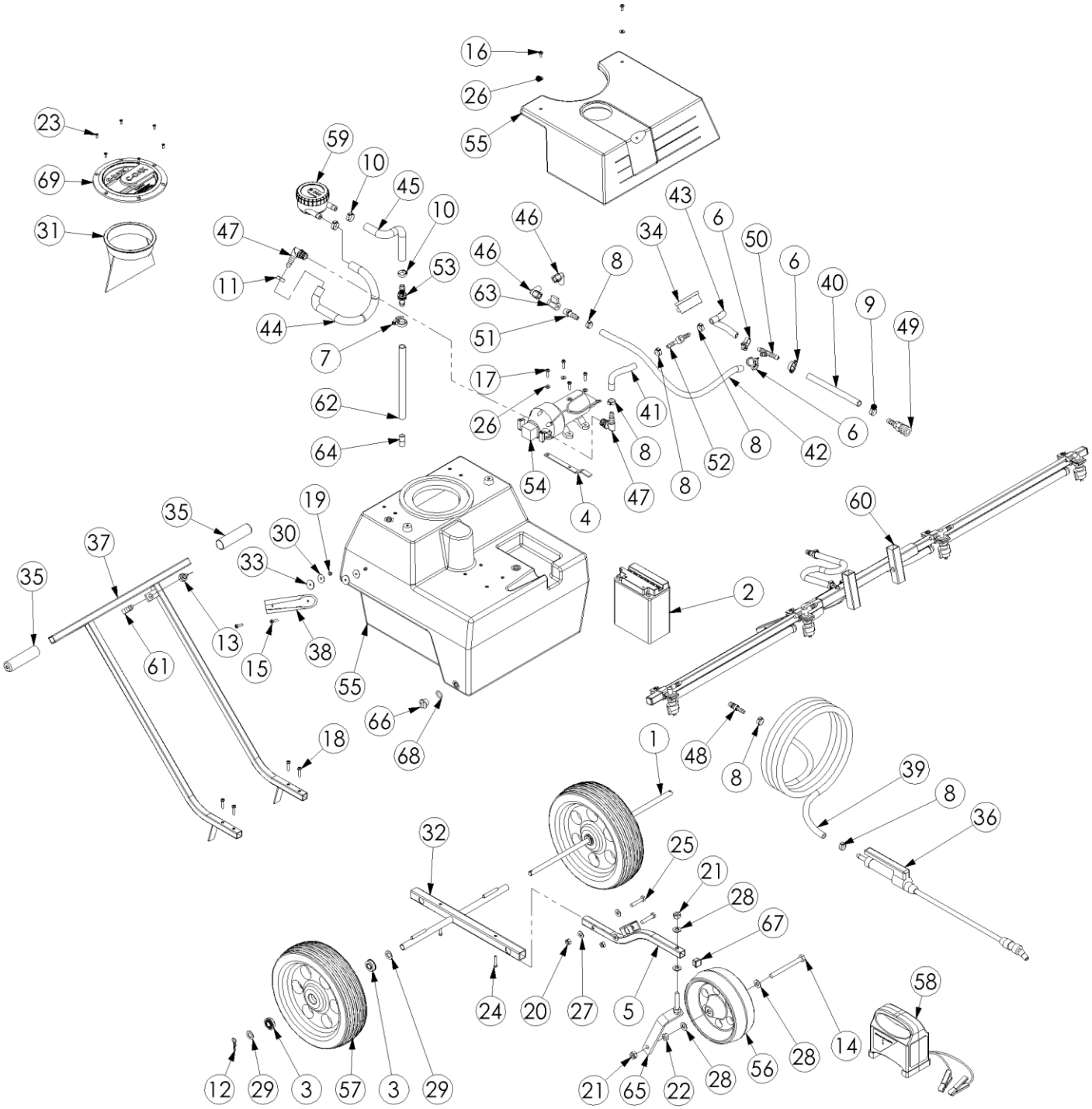
## MAINTENANCE

Keep the sprayer in good condition. Cleanliness and maintenance are essential for safe and trouble free operation.

**Cleaning**
Flush unit out after use with a mild detergent solution. Leave fresh water in the pump system for storage. The boom may need thorough flushing after using wettable powders. Remove the nozzle caps at either end of the boom and pump about 20 litres of clean water through the boom.

**Filters**
Check the filters regularly and clean/replace if necessary.

## TURFMATE PARTS DIAGRAM




***FOR BREAKDOWN OF TURFMATE BOOM SEE PAGE 14.**

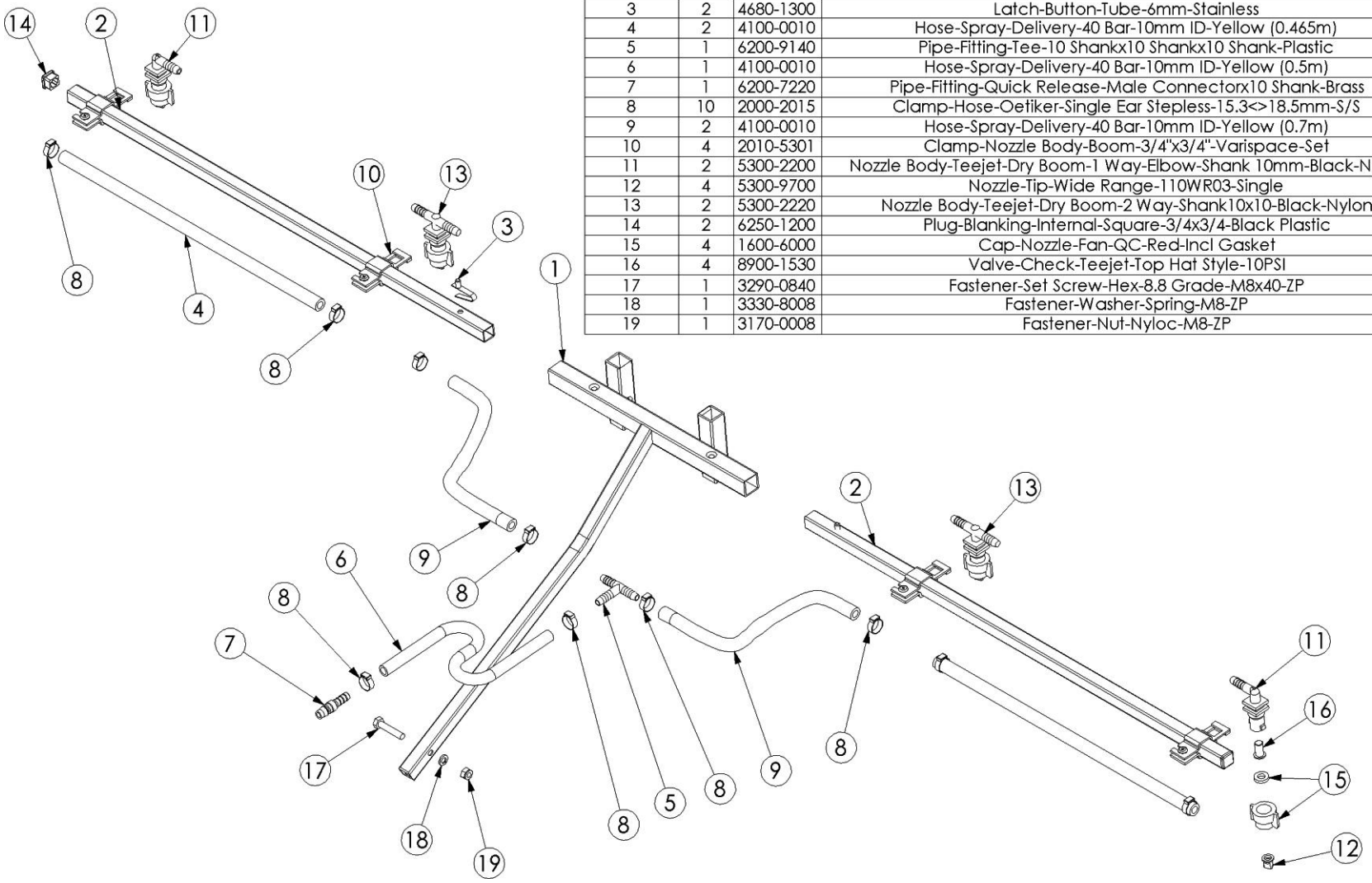
## TURFMATE PARTS LIST

| Item No. | QTY. | e9 part no | e9 description |
|---|---|---|---|
| 1 | 1 | 1082-8530 | Axle-Turf & Garden 53L-520LG-SS |
| 2 | 1 | 1130-2400 | Battery-Electrical-Sealed Lead Acid-12V10AH-151Lx65Wx111H |
| 3 | 4 | 1140-3000 | Bearing-Ball-Pressed Metal Case-1 1/8"ODx1/2"IDx7/16"W-ZP |
| 4 | 1 | 1300-8000 | Bracket-Support-Pump Cover-Turf & Garden 53L-ZP |
| 5 | 1 | 1300-8600 | Bracket-Turf & Garden-Gooseneck-ZP |
| 6 | 3 | 2000-0015 | Clamp-Hose-Herbi-F-Ratchet-15.0<>17.1mm-Black-Nylon |
| 7 | 1 | 2000-0017 | Clamp-Hose-Herbi-G-Ratchet-16.9<>19.1mm-Black-Nylon |
| 8 | 6 | 2000-2014 | Clamp-Hose-Oetiker-Single Ear Stepless-14.5<>7.0mm-S/S |
| 9 | 1 | 2000-2015 | Clamp-Hose-Oetiker-Single Ear Stepless-15.3<>18.5mm-S/S |
| 10 | 2 | 2000-2017 | Clamp-Hose-Oetiker-Single Ear Stepless-16.6<>19.8mm-S/S |
| 11 | 2 | 2000-2019 | Clamp-Hose-Oetiker-Single Ear Stepless-19.4<>22.6mm-S/S |
| 12 | 2 | 2050-7350 | Clip-R Type-Pin-2mm-ZP |
| 13 | 1 | 2250-8200 | Cover-Switch-Water Proof Boot-Toggle Lever-Rubber-Black |
| 14 | 1 | 2840-1110 | Fastener-Bolt&Nut-Hex-8.8 Grade-M10x110-ZP |
| 15 | 2 | 3090-0520 | Fastener-Machine-Screw-Pan-M5x20-Phillips-Stainless |
| 16 | 2 | 3110-0512 | Fastener-Machine-Screw-Pan-M5x12-Pozi-ZP |
| 17 | 4 | 3110-0520 | Fastener-Machine-Screw-Pan-M5x20-Pozi-ZP |
| 18 | 4 | 3110-0525 | Fastener-Machine-Screw-Pan-M5x25-Pozi-ZP |
| 19 | 2 | 3130-0105 | Fastener-Nut-Nyloc-M5-Stainless |
| 20 | 2 | 3170-0008 | Fastener-Nut-Nyloc-M8-ZP |
| 21 | 2 | 3170-0010 | Fastener-Nut-Nyloc-M10-ZP |
| 22 | 1 | 3180-0010 | Fastener-Nut-Plain-M10-ZP |
| 23 | 6 | 3270-8012 | Fastener-Self Tap-Screw-CSK-8Gx1/2"-Pozi-Stainless |
| 24 | 2 | 3290-0530 | Fastener-Set Screw-Hex-8.8 Grade-M5x30-ZP |
| 25 | 2 | 3290-0840 | Fastener-Set Screw-Hex-8.8 Grade-M8x40-ZP |
| 26 | 6 | 3310-6005 | Fastener-Washer-Flat-M5-ZP |
| 27 | 3 | 3310-6008 | Fastener-Washer-Flat-M8-ZP |
| 28 | 4 | 3310-6010 | Fastener-Washer-Flat-M10-ZP |
| 29 | 4 | 3310-6012 | Fastener-Washer-Flat-M12-ZP |
| 30 | 2 | 3310-9210 | Fastener-Washer-Flat-3/16"x7/8"x1.5-Grade 304-Stainless |
| 31 | 1 | 3400-1110 | Filter-Basket-D150-Mesh |
| 32 | 1 | 3500-7300 | Frame-Turf & Garden-Gardenmate 50-ZP |
| 33 | 2 | 3700-9210 | Gasket-Washer-5x25x1.6-Black-Neoprene |
| 34 | 1 | 3750-3500 | Gauge-75mm-Bottom Mount-140PSI-10Bar-1/4BSPT-G/Filled |
| 35 | 2 | 3865-3800 | Grip-Handle-7/8"-PVC-Black-Plastic |
| 36 | 1 | 4000-6020 | Hand Gun-Teejet-Trigger Jet X18-Shank 10mm |
| 37 | 1 | 4050-8500 | Handle-Turf & Garden-50L-ZP |
| 38 | 1 | 4080-3905 | Holder-Handgun-INEX Turf & Garden-Gas Tube-150LG-BLACK-MDPE |
| 39 | 1 | 4100-0008 | Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow (5m) |
| 40 | 1 | 4100-0010 | Hose-Spray-Delivery-40 Bar-10mm ID-Yellow (0.15m) |
| 41 | 1 | 4100-0010 | Hose-Spray-Delivery-40 Bar-10mm ID-Yellow (0.7m) |
| 42 | 1 | 4100-0008 | Hose-Spray-Delivery-40 Bar-8.5mm ID-Yellow (0.51m) |
| 43 | 1 | 4100-0010 | Hose-Spray-Delivery-40 Bar-10mm ID-Yellow (0.2m) |
| 44 | 1 | 4100-0013 | Hose-Spray-Delivery-40 Bar-13mm ID-Yellow (0.4m) |

| | | | |
|---|---|---|---|
| 45 | 1 | 4100-3013 | Hose-Suction-Wire Reinforced-13mm ID-Clear Plastic |
| 46 | 2 | 6200-2310 | Pipe-Fitting-Elbow-1/4BSPMx1/4BSPF-Polypropylene |
| 47 | 2 | 6200-2980 | Pipe-Fitting-Flojet-Elbow-10 ShankxQuad Port Pump-Nylon |
| 48 | 1 | 6200-7210 | Pipe-Fitting-Quick Release-Male Connectorx8.5 Shank-Brass |
| 49 | 1 | 6200-7270 | Pipe-Fitting-Quick Release-Valve-Stopx10 Shank-Brass |
| 50 | 1 | 6200-9140 | Pipe-Fitting-Tee-10 Shankx10 Shankx10 Shank-Plastic |
| 51 | 1 | 6200-9340 | Pipe-Fitting-Teejet-Straight-10 Shankx1/4NPTM-Plastic |
| 52 | 1 | 6200-9350 | Pipe-Fitting-Teejet-Tee-10 Shankx1/4NPTFx10 Shank-Plastic |
| 53 | 1 | 6200-9470 | Pipe-Fitting-Thru Tank-Straight-13x13 Shankx1/2&1/4BSPM-Plastic |
| 54 | 1 | 6800-5000 | Pump-Flojet-Triplex-12 Volt-7.6LPM-Quad Ports |
| 55 | 1 | 7500-3750 | Rota-Tank & Pump Cover-53L-Spray-NATURAL/RED-MDPE |
| 56 | 1 | 7500-9200 | Rota-Wheel-8inch-Black-MDPE |
| 57 | 2 | 7500-9220 | Rota-Wheel-12inch-Black-MDPE |
| 58 | 1 | 8427-1600 | Sub-Battery Charger Assembly-Turf & Garden |
| 59 | 1 | 8427-3500 | Sub-Filter Assembly-C-Dax U Filter |
| 60 | 1 | 8427-9400 | Sub-Turfmate G2-Boom |
| 61 | 1 | 8450-2410 | Switch-Electrical-Toggle-SPST-250V-16Amp |
| 62 | 1 | 8840-8413 | Tube-Transluscent-13MM-100PSI (0.23m) |
| 63 | 1 | 8900-1110 | Valve-Ball-1/4BSPFx1/4BSPM-Tee Handle-Brass |
| 64 | 1 | 8900-4600 | Valve-Lid Vent-D150 |
| 65 | 1 | 9440-4500 | Yoke-Jockey Wheel-Turfmate-ZP |
| 66 | 1 | 6200-6260 | Pipe-Fitting-Plug-Thumb Screw-3/8BSPM-Black-Plastic |
| 67 | 1 | 6250-1200 | Plug-Blanking-Internal-Square-3/4x3/4-Black Plastic |
| 68 | 1 | 5450-2220 | O'Ring-Imperial-1/8"x5/8"-N70 |
| 69 | 1 | 8427-6000 | Sub-Lid & Ring Assembly-D150-In-Ex Vented-Nylon-Black |

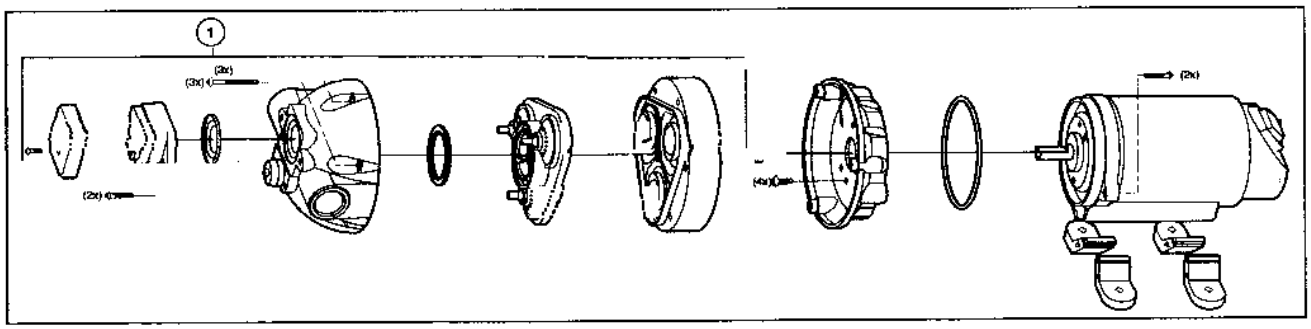
## Turfmate Boom Exploded Diagram and Parts List

| Item No. | QTY. | e9 part no | e9 description |
|---|---|---|---|
| 1 | 1 | 1900-8500 | Centre-Boom-Turfmate G2-ZP |
| 2 | 2 | 1072-5500 | Arm-Boom-Turfmate G2-ZP |
| 3 | 2 | 4680-1300 | Latch-Button-Tube-6mm-Stainless |
| 4 | 2 | 4100-0010 | Hose-Spray-Delivery-40 Bar-10mm ID-Yellow (0.465m) |
| 5 | 1 | 6200-9140 | Pipe-Fitting-Tee-10 Shankx10 Shankx10 Shank-Plastic |
| 6 | 1 | 4100-0010 | Hose-Spray-Delivery-40 Bar-10mm ID-Yellow (0.5m) |
| 7 | 1 | 6200-7220 | Pipe-Fitting-Quick Release-Male Connectorx10 Shank-Brass |
| 8 | 10 | 2000-2015 | Clamp-Hose-Oetiker-Single Ear Stepless-15.3<>18.5mm-S/S |
| 9 | 2 | 4100-0010 | Hose-Spray-Delivery-40 Bar-10mm ID-Yellow (0.7m) |
| 10 | 4 | 2010-5301 | Clamp-Nozzle Body-Boom-3/4"x3/4"-Varispace-Set |
| 11 | 2 | 5300-2200 | Nozzle Body-Teejet-Dry Boom-1 Way-Elbow-Shank 10mm-Black-Nylon |
| 12 | 4 | 5300-9700 | Nozzle-Tip-Wide Range-110WR03-Single |
| 13 | 2 | 5300-2220 | Nozzle Body-Teejet-Dry Boom-2 Way-Shank10x10-Black-Nylon |
| 14 | 2 | 6250-1200 | Plug-Blanking-Internal-Square-3/4x3/4-Black Plastic |
| 15 | 4 | 1600-6000 | Cap-Nozzle-Fan-QC-Red-Incl Gasket |
| 16 | 4 | 8900-1530 | Valve-Check-Teejet-Top Hat Style-10PSI |
| 17 | 1 | 3290-0840 | Fastener-Set Screw-Hex-8.8 Grade-M8x40-ZP |
| 18 | 1 | 3330-8008 | Fastener-Washer-Spring-M8-ZP |
| 19 | 1 | 3170-0008 | Fastener-Nut-Nyloc-M8-ZP |



**FLOJET SPRAY PUMP RELACEMENT PARTS**

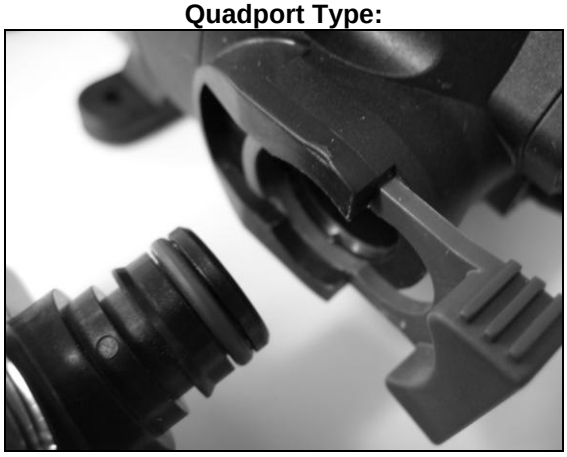
The following replacement parts for the 12V Flojet 7.6 L/Min pump are available from any INEX dealer:



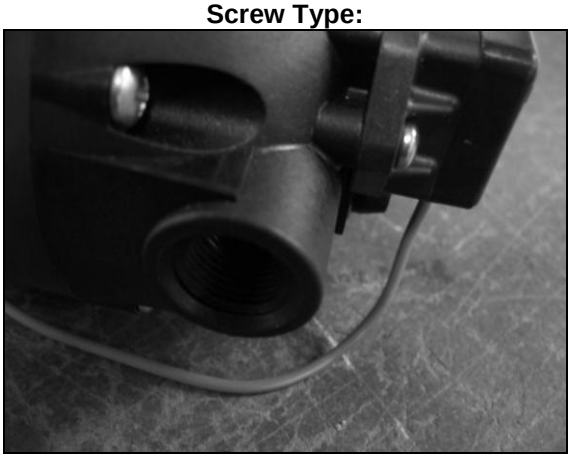
**NOTE**
**Please select the correct hose connection type for your pump**

The below pictures show the quadport type (Left hand photo) and threaded type (Right hand photo). The threaded type is no longer available for ordering and should be replaced with a quadport type. When replacing a threaded pump head with a quadport type you will require replacement quadport hose fittings in addition to the pump head.

**Quadport Type:**



**Screw Type:**



| ITEM | PART NO. | DESCRIPTION |
|---|---|---|
| 1 | 6800-5160 | Pumphead Kit (includes pressure switch)<br>**To Suit Quadport Type** |
| | 6800-5000 | Replacement Pump<br>**Quadport Type** |
| | 6200-2980 | Pipe-Fitting-Flojet-Elbow-10-13mm ShankxQuad Port Pump-Nylon |
| | 6200-3020 | Pipe-Fitting-Flojet-Straight-10-13mm ShankxQuad Port Pump-Plastic |