



Irrigation Service Programs 2012



Irrigation Service Manager - Dave Knox 518-857-9883

To Schedule Field Service Call go to www.grasslandcorp.com, or Contact our Irrigation Department at any location

Weather Station Services,

Toro and Non-Toro Systems: \$475.00

- Take a relative humidity reading and replace desiccant as needed.
- Inspect pyranometer for contamination.
- Clean out rain gauge of debris and level.
- Calibrate the rain gauge.
- Check filter of the temperature/humidity sensor.
- Clean temperature/humidity sensor.
- Calibrate the temperature/humidity probe.
- Clean Gill radiation shield.
- Inspect anemometer bearings.
- Inspect wind vane bearings.
- Test battery for proper volts. - Clean solar array
- Inspect all wires for cracking and deterioration.
- Check for proper communication to central computer.



Earth Grounding Test:

\$15.00 per location

- Ohm each location as per the manufacturer's specifications. Price assumes customer has located all ground rods in advance.
- Product report showing results of tests and recommendations for improvement if required.



Central Computer Maintenance:

\$75.00 •

- Clean computer of dust by cleaning fan and heat sinks as well as other components - Organize wires behind desk and wire tie appropriately - Ohm for proper grounding
- Update SitePro to latest version if NSN licensed - Confirm update time, proper watering window, review or create site codes, head and nozzle types - Save and clear last years water use data and historical data, restart computer to clear RAM for more efficient operation.
- Defrag computer and delete temporary files. - Confirm that all components are plugged into proper ports as per NSN specs. - Save data base, twice, on CD or thumb drive making sure that superintendent keeps one at home.



Satellite Preventive Maintenance:

\$80.00 per satellite

- Clean satellite of all pests and debris
- Inspect for damaged parts
- Test for proper grounding as per manufacturer's specs
- Check for proper voltage power. Inspect all wire connections and condition of wires.
- Check communication strength. Confirm that satellite communicates with central. Listen to signal to minimize interference.
- Inspect all fuses to confirm proper amp rating and size.
- Confirm Timing Mechanism functions
- Inspect all solenoid wires for proper connection and condition.
- Ohm each station to verify 24 volt output and give written form to superintendent.



Modem Tuning:

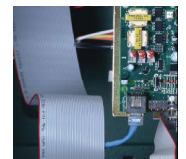
\$45.00 per modem

- Re-tune all modems to insure proper communication through out the season

Board Repair by David Knox

Late Fall and Winter, when your system is out of service, is a great time to send in any damaged face plates or boards from your field satellites for replacement or repair.

Refurbished components are available from Toro at a fraction of the price of new with an exchange.



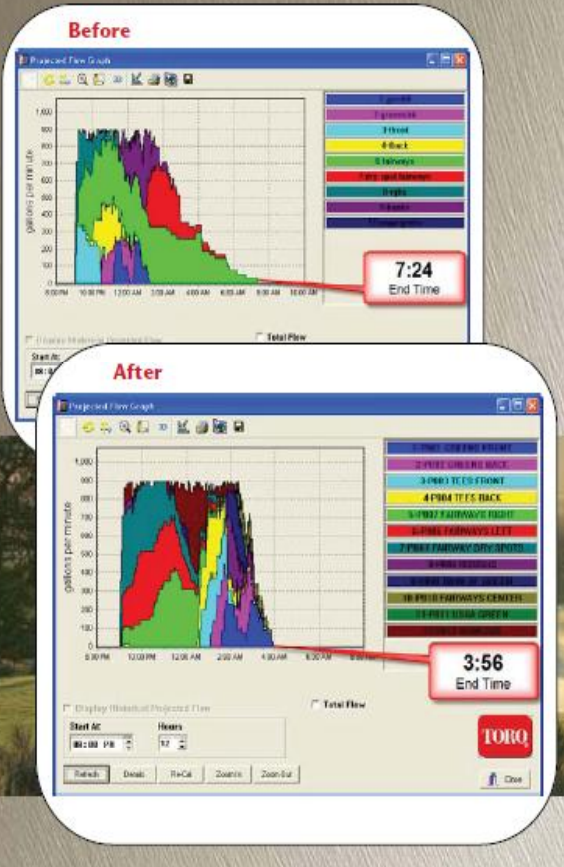
Policies and Rates:

- Standard Labor Charge Per Hour \$98.00, Minimum of 1/2 Hour
- Weekends or evenings after 6 PM \$110.00 per hour
- Minimum Trip Charge \$75.00

Toro NSN[®] Custom Database Management

Custom management services to save you time and resources. Toro's centralized irrigation control offers you more features to meet today's need to precisely manage your water resources. Together with Toro distributors, NSN has created NSN Custom Database Management, an analysis of your irrigation data customized to bring you optimum water and resource utilization. This will enable you to harness the full control and flexibility of the most powerful control system ever offered in the golf industry.

NSN Custom Database Management begins with an on-site analysis and a thorough evaluation of your irrigation data. We then expertly optimize the database to meet your specific needs and site requirements. The results are delivered to you in a customized, actionable plan — ready to execute.



Material	Description	List	Special
NSN-CDM-3	> 1800 Heads	\$4,450.00	\$2,500.00
NSN-CDM-2	Up to 1800 Heads	\$3,335.00	\$1,875.00
NSN-CDM-1	Up to 900 Heads	\$1,675.00	\$937.50

Wire Tracking, Leak detection and Valve location Services

Work performed:

- Factory authorized
- Fully insured
- Use latest tracking equipment available
- Track "live" and "dead" wires
- Track wire routings
- Track and repair faulty splices
- Track and repair Lightning and Surge damaged wires and splices



Irrigation Service Request can now be completed on-line 24/7. Logging your request on-line will insure that your request is responded to promptly and tracked by Grassland until completed and closed. Give it a try at www.grasslandcorp.com

TORO.**Turf Guard® Wireless Soil Monitoring System****How it works:**

*Wireless Sensor Measures
Moisture, Temperature and
Salinity Levels*

- Three to five sensors buried in each green at critical root zone levels
- Additional sensors buried in fairways, tee boxes and planters
- Above-ground relays installed on or in existing irrigation pedestals
- Wireless MESH networking links all sensors to central control system.
- Moisture, Temperature and Salinity readings displayed in your office

**Sensor**

- Measures soil moisture, temperature, and salinity.
- Two distinct depths in the soil profile—Critical root zone level and a second 4.5 inches lower
- Independent measurements from each depth.

Pedestal Repeater

- Mounts in most Toro irrigation satellite pedestals.
- External mount available for other models including non-Toro pedestals.

Base Station

Connects to Internet in the office.

Works with any Irrigation System

Toro® Turf Guard Wireless Soil Monitoring System helps you improve your turf, soil and water efficiency. The Turf Guard system is a revolutionary technology that lets you know what's going on beneath the surface of your course, so you can make timely, more-informed adjustments. Turf Guard uses small, dual-layer sensors buried under a putting green, fairway or tee box. Installation is quick and easy without any wires or trenches, and golfers never know the sensors are there. Once in the ground, each sensor accurately measures moisture, temperature and salinity levels of your soil at two depths, in real time. That data is then collected and compiled into easy to view and understand tables, graphs and dashboards. This information can then be accessed from any Internet-connected computer by connecting to the system's Web-based interface. You can even access your sensor information from a Web-enabled cell phone.

Sprinkler Head Audit:**\$295.00***

- Ensure that all heads turn at a three minute rotation.
- Inspect that all nozzles are spraying correctly.
- Inspect riser for leakage around O-ring or adjustment ring.
- Check for head level.
- Check operation of pilot valve.

This is not a certified audit of performance and coverage.

* Up to 1000 head system for larger systems ask us for a quote



THE TORO® LYNX™ CONTROL SYSTEM.
BETTER INFORMATION FOR BETTER DECISIONS.



SHARPEN YOUR INSTINCTS.

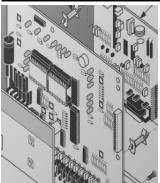


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Attention - Rain Bird Golf Customers. Grassland is proud to have local on-site field service to support our Toro Customer base. We can also help with wiring, grounding, and even field controller and decoder issues with competitive systems. If you need local support call Grassland and we will do our best to get you back up and running. We also have conversion assemblies and solenoids that fit your heads

Parts and Operations Manuals



For your convenience Grassland has posted the owner's manuals for many popular Golf and Non-Golf Irrigation Products on our web site. You will also find a complete Toro Residential Commercial & Golf Irrigation Parts Book that is available to download. If you do not have access to the internet and need a copy of any manual or a complete parts book, just contact us. We would be happy to send you copies free of charge.

Network LTC[®] Plus Upgrade Kit

NEW!

24 Month No Interest Financing Available!



Network LTC Plus

Trade-in Dollars Available!

Quickly and easily upgrade your Network LTC Plus satellites to state-of-the-art irrigation control technology!

Network LTC Plus satellite controllers can now be upgraded to the most advanced irrigation technology. With the installation of an upgrade kit, you can upgrade your LTC Plus controller to a Network VP[®] controller. The Network VP provides advanced flow management control which can substantially reduce water time windows and system download times.

- Upgrading to Network VP will deliver more precise irrigation control through 64 programs and advanced grow-in watering capability.
- A new and improved user interface puts all of this power in your hands with minimal button pushes and intuitive controls.



Network LTC Plus with Network VP Upgrade Kit



Network LTC Plus Upgrade Kit consists of Network VP faceplate, power distribution board, cable and hardware.

LTC+ to VP Upgrade Kits and Installation

Part #	Description	List Price	Sale Price
118-0038	Kit, LTC Plus to Network VP Upgrade Kit	\$ 1,670.00	\$899.00
	Installation Price Per Satellite, Optional		\$ 75.00

24 and 36 Month No Interest Financing Available, down payment may be required