

**EN**

## Installation and Maintenance Guidelines

- INSTALL WITH BLUE STRIPE(S) UP.
- To prevent damaging the drip tape / drip line, the installation equipment should be free of sharp burrs and rough edges; it is also important to avoid running the drip tape / drip line over with heavy equipment.
- Buried drip tape / drip line should be pressurized within 24 hours to prevent soil compaction and possible flow restriction through the drip tape / drip line.
- Thoroughly flush the system mainlines and submains prior to hooking up the drip tape / drip line laterals.
- Proper system design is important. For assistance, consult the *Toro Ag Owner's Manual* or a qualified irrigation system designer.
- Proper measures must be implemented to avoid damage by insects, rodents or other pests.
- Proper filtration and appropriate water chemical treatment are recommended to avoid system clogging.
- Use only water-soluble fertilizers and flush the lines before system shutdown.
- Unless proper precautions are taken, root intrusion can occur at emitter outlets.
- To maximize system life and performance, the mainlines, submains and laterals should be systematically flushed on a regular basis.
- Properly sized air/vacuum relief valves should be installed whenever air entrapment and/or air vacuum may occur. Vacuum relief is especially important to prevent clogging in buried drip tape / drip line installations.
- When used under clear plastic mulch, the drip tape / drip line should be completely buried to protect it from being burned. Water droplets entrapped under the mulch can focus the sun's rays on the drip tape / drip line causing permanent damage.

**ES**

## Guía de Instalación y Mantenimiento

- INSTALAR CON LA(S) LINEA(S) AZUL(ES) HACIA ARRIBA.
- Para prevenir daños a la cinta / manguera, se recomienda asegurarse de que el implemento de instalación esté libre de filos cortantes. Igualmente se sugiere el evitar transitar sobre la cinta / manguera con maquinaria pesada.
- En instalaciones subterráneas, la cinta / manguera de riego debe de ser presurizada dentro de las primeras 24 horas después de su instalación, para prevenir que la compactación del suelo restrinja el flujo de agua.
- Es importante asegurarse de purgar la red de tubería principal y secundaria antes de conectar la cinta / manguera de riego.
- Es importante contar con un diseño adecuado del sistema de riego antes de instalar la cinta / manguera. Consulte el *Manual de Usuario de Toro Ag* o a un diseñador certificado de sistemas de riego.
- Es importante tomar las medidas necesarias para evitar que insectos, roedores o plagas llegaran a causar daños a la cinta / manguera.
- Para optimizar la durabilidad y el desempeño de la cinta / manguera de riego, es importante controlar la calidad del agua mediante su filtración y tratamiento químico.
- En el caso de suministrar fertilizantes vía el sistema de riego, se sugiere que se utilicen exclusivamente fertilizantes solubles en agua. Igualmente se aconseja purgar el sistema al finalizar la temporada de riego para prevenir el taponamiento de la cinta / manguera a causa de la acumulación de sedimentos.
- Tome las medidas necesarias para prevenir la intrusión de raíces en los goteros de la cinta / manguera.
- Para prevenir la acumulación de sedimentos que podrían obstruir el flujo de agua, se recomienda purgar de manera regular y sistemática tanto la red de tubería principal y secundaria como la cinta / manguera de riego.
- Se recomienda colocar válvulas de alivio de aire/vacío para prevenir la obstrucción de los goteros a causa de la ingesta de suelo.
- Cuando se instale la cinta / manguera bajo acolchado de plástico transparente, asegúrese de que la cinta / manguera quede totalmente enterrada para eliminar la posibilidad de quemaduras. Las gotas de agua condensadas bajo el acolchado pueden enfocar los rayos del sol (efecto lupa) sobre la cinta / manguera y causar daños permanentes.

**FR**

## Guide d'installation et d'entretien

- INSTALLEZ AVEC LA(LES) LIGNE(S) BLEUE(S) VERS LE HAUT.
- Afin de ne pas endommager le tube de goutte à goutte, l'équipement d'installation ne doit pas comporter de pièces coupantes ou bords rugueux ; il est également important d'éviter de passer sur le tube avec de l'équipement lourd.
- Un tube de goutte à goutte complètement recouvert de terre devrait être mis sous pression dans les 24 heures pour empêcher une compaction du sol qui réduirait possiblement le débit dans le tube.
- Purgez complètement les lignes principales et secondaires du système avant de raccorder le tube de goutte à goutte.
- Il est important d'avoir un plan d'irrigation adéquat. Pour obtenir de l'aide, n'hésitez pas à consulter un technicien en irrigation qualifié.
- Prenez les précautions nécessaires pour éviter tout dommage dû aux insectes, rongeurs et autres nuisances.
- Une filtration adéquate et un traitement chimique approprié de l'eau sont recommandés pour éviter un colmatage du système.
- N'utilisez que des engrais solubles à l'eau et purgez les lignes avant de fermer le système.
- Si les précautions nécessaires ne sont pas prises, il peut y avoir une intrusion de racines dans l'orifice du gouteur.
- Afin de maximiser la durée de vie et la performance du système, les lignes principales, secondaires et les tubes de goutte à goutte devraient être purgés systématiquement sur une base régulière.
- Des valves d'évents/vacuum de la bonne taille devraient être installées aux endroits où l'air pourrait rester piéger et/ou un vacuum est susceptible de se former.
- Lorsqu'un film de paillage transparent est utilisé, le tube de goutte à goutte devrait être complètement recouvert de terre afin de protéger celui-ci d'être brûlé. Des goutelettes d'eau emprisonnées sous le film de paillage dirigeront les rayons du soleil sur le tube causant des dommages permanents.



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# Toro Ag Sales Warranty

Toro Ag and its affiliate, Toro Warranty Company pursuant to an agreement between them, jointly warrant to Toro Ag trade customers that Toro Ag products for agricultural use will be free from original defects in materials and workmanship.

Toro Ag Price list is F.O.B. Factory. Neither Toro Micro- Irrigation nor Toro Warranty Company is liable for loss or damage occurring during shipment. Responsibility for safe delivery is assumed by the customer and freight carrier at the time of shipment. Claims for such damages should be filed with the freight carrier immediately upon identification.

Claims for defects that are not freight related should be filed with Toro Ag no later than five days from date of discovery of defect within the warranty period as stated below. In order to accurately identify the cause of potential warranty defects, the customer shall provide access to the field, system components, design information, maintenance records, and injected compounds (fertilizers, chemicals, etc.) as requested by Toro.

Toro Ag warranty only covers the Toro product itself, and only applies to defects in material or workmanship in that Toro product; and does not cover loss or damage to anything else, or loss or damage to the Toro product caused by anything other than a defect in that Toro product. For example and not by way of limitation, this warranty does not apply to loss or damage to the product, vegetation or other property or personal injury due to improper installation and or application (including non-standard use of product as for example mechanically moved irrigation systems, continuous pressure situations, heated water, waste water, potable water or others), abuse, alteration, mishandling, accident, insects, rodents, mechanical damage, plugging, over pressurization or if the product damage results from service by anyone other than Toro Ag or its authorized service centers or used outside the recommendations of the Toro Ag Owner's Manual.

Many plastic compounds are widely known to be susceptible to environmental stress cracking (ESC) and other forms of material degradation. The use of certain substances may accelerate the process of ESC and/or material degradation, and would invalidate any Toro product warranty.

Neither Toro Ag nor Toro Warranty Company is liable for failure of products not manufactured by Toro Ag even though such products may be sold or used in conjunction with Toro Ag products.

Neither Toro Ag nor Toro Warranty Company is liable for indirect, incidental, or consequential damages, including but not limited to vegetation or crop loss during periods of malfunction or resulting non-use.

Neither Toro Ag nor Toro Warranty Company is liable for any loss or damage, including property damage resulting from installer's negligence.

**This warranty is the only warranty made by Toro Ag or Toro Warranty Company. It replaces all other express warranties and all implied warranties are disclaimed, including the implied warranties of merchantability and fitness for use.**

Under this warranty, the sole remedy is to direct all claims to an authorized Toro Ag dealer.

Within the warranty period stated below, Toro Ag and Toro Warranty Company agree to repair or replace, at their option and without charge, any parts which are found to have original manufacturing defects, provided the product is returned freight pre-paid. If the warranty period is longer than two years and products are replaced under the warranty after the second year, the remaining warranty will be prorated for the remaining warranty period, equal to the ratio between the period that has passed prior to replacement and the full warranty period. Toro Ag and Toro Warranty Company do not warranty any labor, including but not limited to labor on installation or removal.

This warranty gives you specific legal rights and you may have other rights, which vary from state to state.

## Warranty Period from date of delivery:

4 mil.....6 Months  
5, 6 & 8 mil.....1 Year  
10,12, 13, 15, 18 & 24 mil.....2 Years



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