



OWNER'S MANUAL

ABI FOOD PLOT DISC

TR3 / TR3-E SERIES / RASCAL



*This instruction document covers several models. Features may vary by model.
Not all features in this document are applicable to all models and the model depicted may differ from yours.*

FOR YOUR RECORDS:

Record your machine’s information and serial number in the space provided below. ABI will use this information to give you prompt service when you order parts or need support.

This document covers several models. Features may vary by model. Not all features in this document are applicable to all models. The model depicted may differ from yours.

MODEL AND SERIAL NUMBER:

Model Number:	_____
Serial Number:	_____
Invoice Number:	_____
Purchaser’s Name:	_____

CONTACT INFORMATION:

ABI Attachments, Inc
520 S. Byrkit Ave.
Mishawaka, IN 46544

CUSTOMER SUPPORT:

Email: support@abiattachments.com
Phone: (877)788-7253
Website: abisupport.com

WARRANTY INFORMATION:

Please see sepasrate enclose for warranty details.

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SAFETY:



WARNING! The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.



CALIFORNIA PROPOSITION 65

WARNING! Cancer and reproductive harm - www.P65Warnings.ca.gov

SAFETY AT ALL TIMES

Careful operation is your best assurance against an accident. All operators, no matter how much experience they may have, should carefully read this manual and other related manuals, or have the manuals read to them, before operating the tow vehicle and this implement.

- Thoroughly read and understand the "Safety Label" section. Read all instructions noted on them.
- Do not operate the equipment while under the influence of drugs or alcohol as they impair the ability to safely and properly operate the equipment.
- The operator should be familiar with all functions of the tow vehicle and attached implement and be able to handle emergencies quickly.
- Make sure all guards and shields appropriate for the operation are in place and secured before operating implement.
- Keep all bystanders away from equipment and work area.
- Start tow vehicle from the driver's seat with hydraulic controls in neutral.
- Operate tow vehicle and controls from the driver's seat only.
- Never dismount from a moving tow vehicle or leave tow vehicle unattended with engine running.
- Do not allow anyone to stand between tow vehicle and implement while backing up to implement.
- Keep hands, feet, and clothing away from power-driven parts.
- While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.
- Do not turn tow vehicle so tight as to cause hitched implement to ride up on the tow vehicle's rear wheel.
- Store implement in an area where children normally do not play. When needed, secure attachment against falling with support blocks.

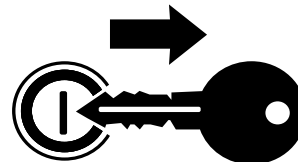
SAFETY PRECAUTIONS FOR CHILDREN

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to implements and their work.

- Never assume children will remain where you last saw them.
- Keep children out of the work area and under the watchful eye of a responsible adult.
- Be alert and shut the implement and tractor down if children enter the work area.
- Never carry children on the tractor or implement. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the tow vehicle.
- Never allow children to operate the tow vehicle, even under adult supervision.
- Never allow children to play on the tow vehicle or implement.
- Use extra caution when backing up. Before the tractor starts to move, look down and behind to make sure the area is clear.

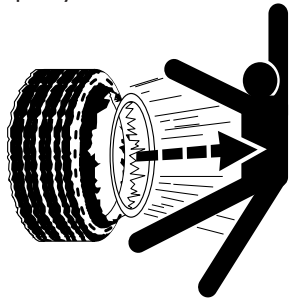
SHUTDOWN & STORAGE

- If engaged, disengage power take-off.
- Park on solid, level ground and lower implement to ground or onto support blocks.
- Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- Relieve all hydraulic pressure to auxiliary hydraulic lines.
- Wait for all components to stop before leaving operator's seat.
- Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.
- Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.



TIRE SAFETY

- Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's Manual.
- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- Securely support the implement when changing a wheel.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- Make sure wheel bolts have been tightened to the specified torque.
- Some attachments may have foam or sealant inside them and must be disposed of properly.

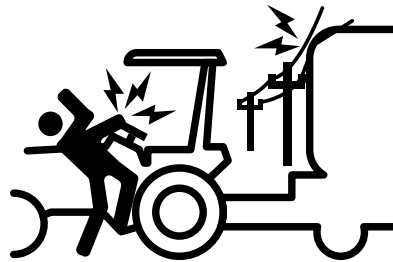


OPERATION SAFETY

- Stay alert for holes, rocks, and roots in the terrain and other hidden hazards. Keep away from drop-offs.
- Stop implement immediately upon striking an obstruction. Turn engine off, remove key, inspect and repair any damage before resuming operation.
- Never operate tractor and implement under trees with low hanging limbs. Operators can be knocked off the tractor and then run over by implement.

TRANSPORT SAFELY

- Comply with federal, state, and local laws.
- Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if trailer is not equipped with brakes.
- Avoid contact with any overhead utility lines or electrically charged conductors.
- Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down steep inclines with heavy end of a tow vehicle with loader attachment on the "uphill" side.



- Engage park brake when stopped on an incline.
- Maximum transport speed for an attached equipment is 20 mph. **DO NOT EXCEED.** Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- As a guideline, use the following maximum speed weight ratios for attached equipment:
20 mph when weight of attached equipment is less than or equal to the weight of machine towing the equipment.
10 mph when weight of attached equipment exceeds weight of machine towing equipment but not more than double the weight.
- **IMPORTANT: Do not tow a load that is more than double the weight of the vehicle towing the load.**



PRACTICE SAFE MAINTENANCE

- Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- Work on a level surface in a clean dry area that is well-lit.
- Lower implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- Do not work under any hydraulic supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- Use properly grounded electrical outlets and tools.
- Use correct tools and equipment for the job that are in good condition.
- Allow equipment to cool before working on it.
- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- Inspect all parts. Make certain parts are in good condition & installed properly.
- Replace parts on this implement with genuine ABI Attachments parts only.
- Do not alter this implement in a way which will adversely affect its performance.
- Do not grease or oil implement while it is in operation.
- Remove buildup of grease, oil, or debris.
- Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed.
- Remove all tools and unused parts before operation.



PREPARE FOR EMERGENCIES

- Be prepared if a fire starts.
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.



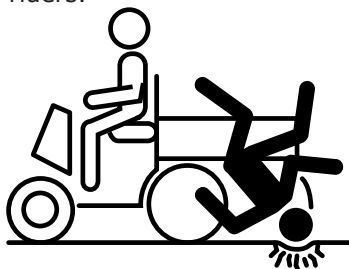
USE SAFETY LIGHTS AND DEVICES

- Slow moving tractors, skid steers, self-propelled machines, and towed equipment can create a hazard when driven on public roads. They are difficult to see, especially at night. Use the Slow Moving Vehicle sign (SMV) when on public roads.
- Flashing warning lights and turn signals are recommended whenever driving on public roads.



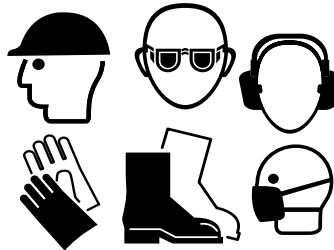
KEEP RIDERS OFF MACHINERY

- Never carry riders on tractor or implement.
- Riders obstruct operator's view and interfere with the control of the tow vehicle.
- Riders can be struck by objects or thrown from the equipment.
- Never use tractor or implement to lift or transport riders.



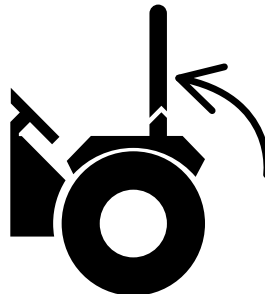
WEAR PERSONAL PROTECTION EQUIPMENT

- Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, and ear plugs.
- Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- Operating equipment safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



USE SEAT BELT AND ROPS

- ABI Attachments recommends the use of a CAB or roll-over protective structures (ROPS) and seat belt in almost all tow vehicles. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the tow vehicle should be upset.
- If ROPS is in the locked-up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.



AVOID HIGH PRESSURE FLUIDS HAZARD

- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Before disconnecting hydraulic lines or performing work on the hydraulic system, be sure to release all residual pressure.
- Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- DO NOT DELAY. If an accident occurs, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.



AVOID UNDERGROUND UTILITIES

Dig Safe, Call 811 (USA).

- Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- Be sure to ask how close you can work to the marks they positioned.



TR3: FOOD PLOT DISC INSTALLATION:

TO INSTALL LEFT AND RIGHT PLOT DISCS:

1. Mount the unit to the 3 point hitch on the tractor. Lift the unit up and remove the pins and Scarifiers.
2. Slide the Left Disc assemblies into every other pocket on the left side of the unit and the Right Disc assemblies into every other pocket on the right side of the unit.
(Figure 6.2 - 6.3)

- Recommend pinning hole in disc shank, farthest from disc, into 2nd hole from the bottom of the pocket. (Figure 6.3)
- Disc shanks must be slid into the pocket with the shanks toward the inside of the unit and the discs facing outwards so the discs will push the soil outward.

NUMBER OF DISCS REQUIRED:

- 6.5' TR3 uses (2) Left Discs and (2) Right Discs. (~4.6' working width)
- 7.5' TR3 uses (2) Left Discs and (2) Right Discs. (~4.4' working width)
- 8.5' TR3 uses (3) Left Discs and (3) Right Discs. (~6.8' working width)

NOTE: The Food Plot Discs are only compatible with TR3 Rake models with removable scarifier teeth. Discs are Not Compatible with TR3 Command Series or SR3 Command Series.

LEFT SIDE OF UNIT

RIGHT SIDE OF UNIT

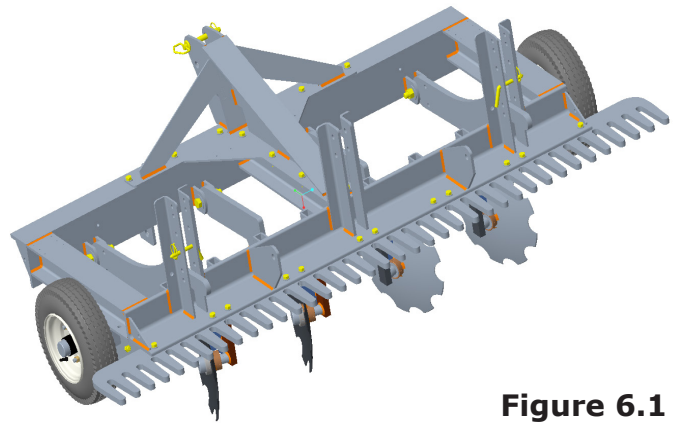


Figure 6.1

RIGHT SIDE OF UNIT

LEFT SIDE OF UNIT

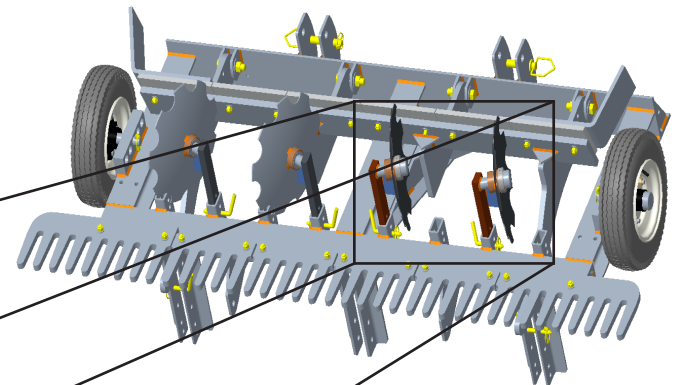


Figure 6.2

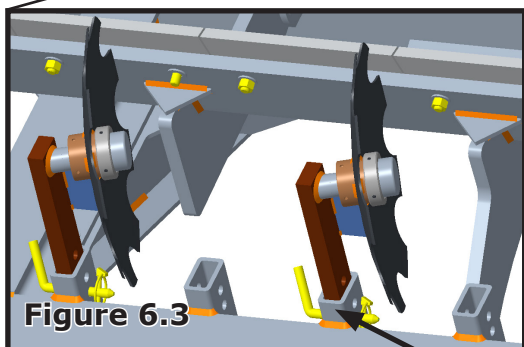


Figure 6.3

MOUNT DISCS IN EVERY OTHER POCKET WITH DISC SHANKS TOWARD THE INSIDE OF THE UNIT AND DISCS FACING OUTWARD.

TR3-E: FOOD PLOT DISC INSTALLATION:

TO INSTALL LEFT AND RIGHT PLOT DISCS:

1. Mount the unit to 3 point hitch on tractor.
Lift the unit up and remove the pins and Profile Blades.
2. Slide Left Disc assemblies into the rear set of pockets on the left side of unit and Right Disc assemblies into the rear set of pockets on the right side of unit. (**Figure 7.2 - 7.3**)
 - Recommend pinning hole in disc shank, farthest from disc into 3rd hole from the bottom of the pocket. (**Figure 7.3**)
 - The disc shanks must be slid into the pockets with the shanks toward the inside of the unit and the discs facing outwards so the discs will push the soil outward. (**Figure 7.3**)

NUMBER OF DISCS REQUIRED:

- 6.5' TR3-E uses (2) Left Discs and (2) Right Discs. (~3.3' working width)
- 7.5' TR3-E can use either (2) Left Discs and (2) Right Discs (~3.3' working width) or (3) Left Discs and (3) Right Discs. (~5.3' working width)
Must remove gauge wheels to run 3 right and 3 left discs.
- 8.5' TR3-E uses (3) Left Discs and (3) Right Discs. (~5.3' working width)

NOTE: On earlier models, the Profile Mounting Bar doesn't have a rear set of pockets for mounting discs. For units that don't have a Profile Mounting Bar or for units that have a Profile Mounting Bar with front pockets only, an optional *Food Plot Disc Mounting Bar Kit* can be purchased. See below for part numbers and installation instructions.

FOOD PLOT DISC MOUNTING BAR KIT:

- 6.5' TR3-E uses **10-90576** mounting bar kit.
- 7.5' TR3-E uses **10-90577** mounting bar kit.
- 8.5' TR3-E uses **10-90576** mounting bar kit.

MOUNT DISCS IN REAR SET OF POCKETS ON PROFILE BLADE MOUNTING BAR WITH DISC SHANKS TOWARD THE INSIDE OF THE UNIT AND DISCS FACING OUTWARD.

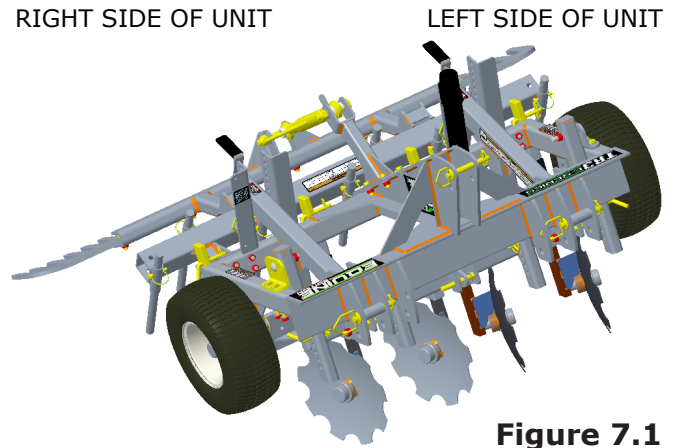


Figure 7.1

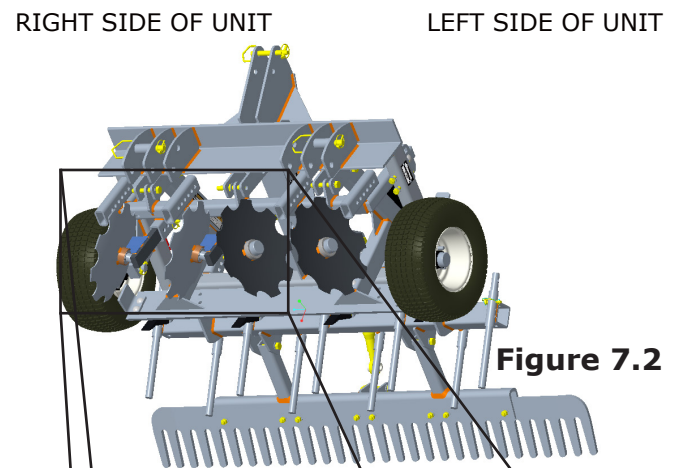


Figure 7.2

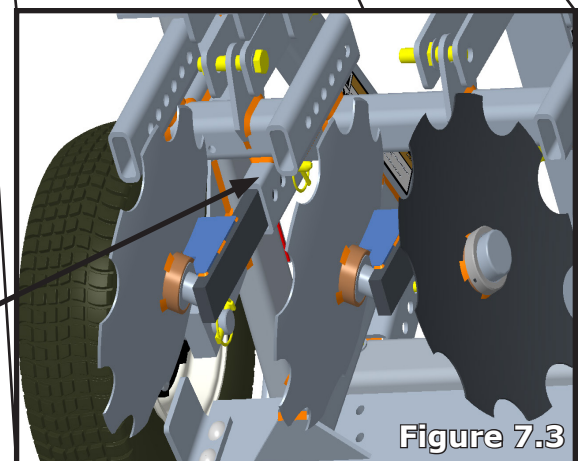


Figure 7.3

TR3-E: MOUNTING BAR KIT:

TOOLS REQUIRED FOR MOUNTING BAR KIT:

- Safety Glasses
- Gloves
- (2) 3/4" wrenches
- (2) 15/16" wrenches

We Recommend two people, one on each end of the unit, to support the mounting bar while securing it to the TR3-E frame.

INSTALL FOOD PLOT DISC MOUNTING BAR: (W/O EXISTING MOUNTING BAR)

1. Remove the mounting brackets on both ends of the new mounting bar using (2) 3/4" wrenches and (1) 15/16" wrench as well as the bolts and nuts from mounting bar ears using (2) 15/16" wrenches (**Figure 8.2**).
2. Slide the new Mounting Bar Kit under the TR3-E and lift it into the mounting position.
3. Reattach the new mounting brackets (removed in step 1) by aligning the 2 holes in the new mounting brackets with the 2 holes in the existing frame, on both ends, using (2) 3/4" wrenches.
4. Slide the Carriage bolt into the top hole in bracket and through the hole in mounting bar and tighten nut using (1) 15/16" wrench (**Figure 8.3**).
5. Slide bolts (removed in step 1) through existing frame and ears on mounting bar and re-tighten nuts using (2) 15/16" wrenches (**Figure 8.4**).

REMOVE NEW MOUNTING BAR BRACKETS BEFORE INSTALLATION

INSTALL NEW MOUNTING BAR TO EXISTING FRAME, USING NEW MOUNTING BRACKETS.

REMOVE BOLTS AND NUTS FROM MOUNTING BAR EARS

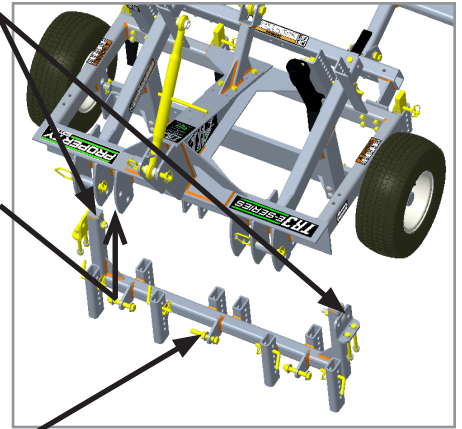


Figure 8.2

NOTE: MOUNT TO EXISTING SIDE RAIL ON FRAME FOR BOTH SIDES

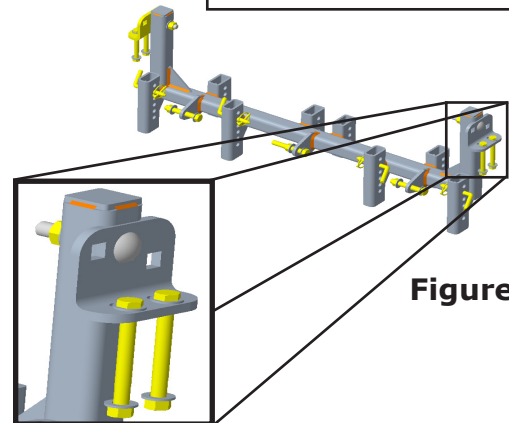


Figure 8.3

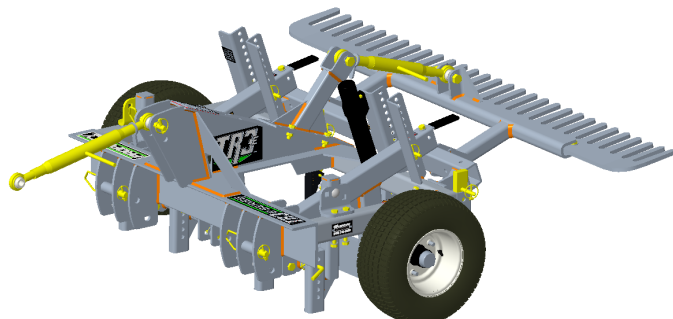


Figure 8.1

MOUNTING BAR EARS (TYP. OF 3)

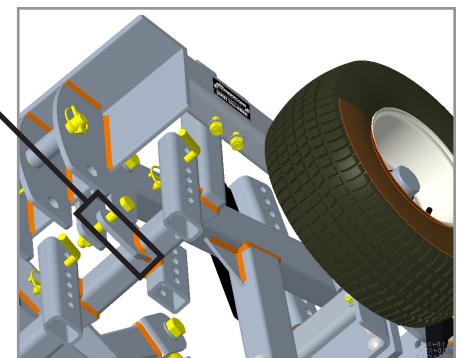


Figure 8.4

TR3-E: MOUNTING BAR KIT:

We Recommend two people, one on each side of the unit, to support the mounting bar while securing it to the TR3-E frame.

INSTALL FOOD PLOT DISC MOUNTING BAR: (W/ MOUNTING BAR W/O REAR POCKETS)

1. Remove the existing Profile Blades before starting to removal and installation of the Food Plot Disc Mounting Bar (**Figure 9.1**).
2. Remove the existing Profile Mounting Bar Kit (**Figure 9.2**).
3. Remove the new mounting brackets on both ends of the new Food Plot Disc Mounting Bar Kit using (2) 3/4" wrenches and (1) 15/16" wrench as well as the bolts and nuts from the new Mounting Bar ears using (2) 15/16" wrenches (**Figure 9.3**).
4. Slide the new Mounting Bar Kit under the TR3-E and lift it into the mounting position.
5. Reattach the new mounting brackets (removed in step 3) by aligning the two holes in the new mounting brackets with the two holes in the existing frame, on both ends, using (2) 3/4" wrenches.
6. Slide the new Carriage bolt into the top hole in bracket and through the hole in mounting bar and tighten nut using (1) 15/16" wrench (**Figure 9.4**).
7. Slide new bolts through existing frame and ears on mounting bar and re-tighten nuts using (2) 15/16" wrenches (**Figure 9.5**).
8. Food Plot Discs can now be installed, as described, in **Figures 7.2** and **7.3**.

NOTE: When you're ready to use the Profile Blades, remove the discs from the rear pockets of the Mounting Bar and return the Profile Blades to the appropriate front pockets.

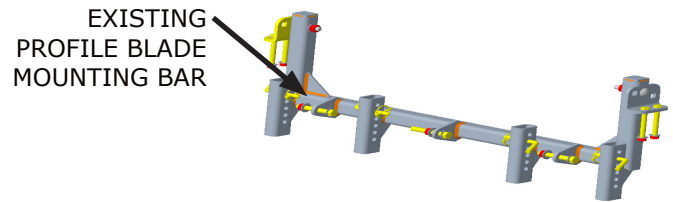
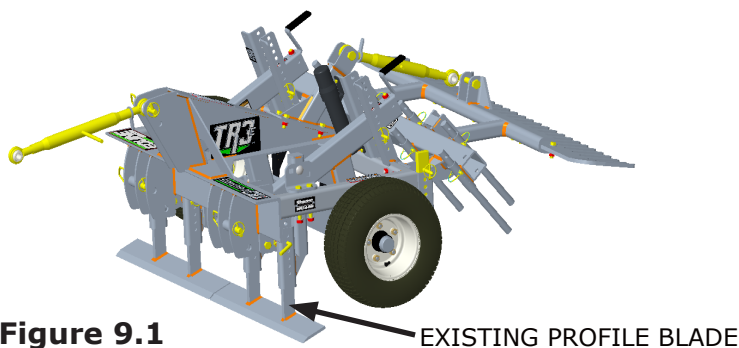


Figure 9.2

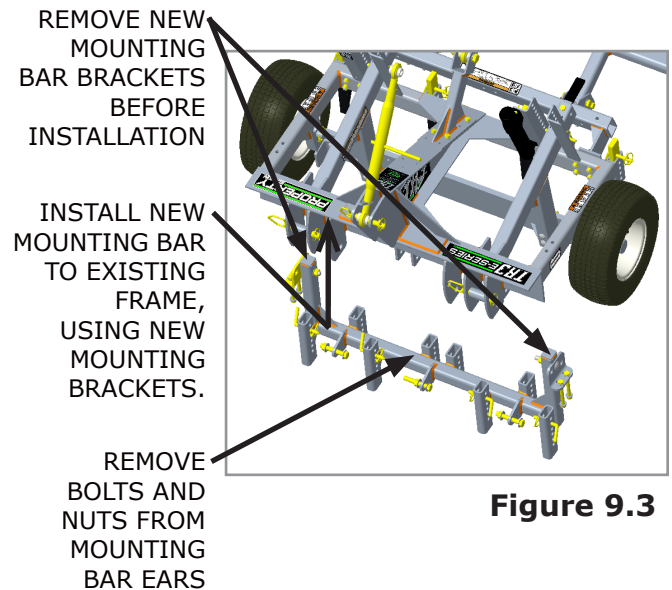


Figure 9.3

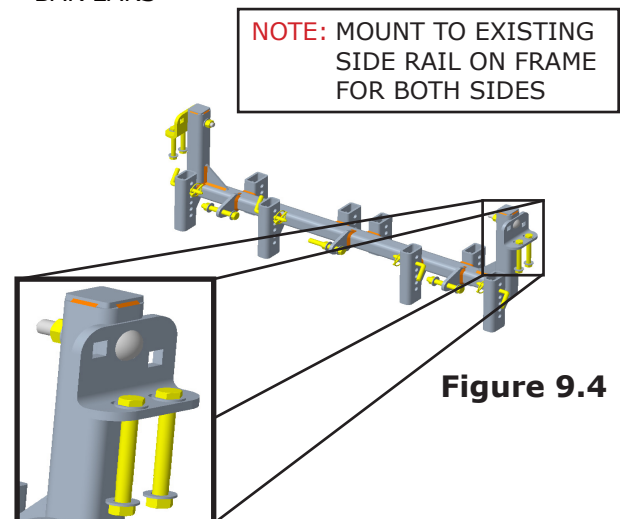


Figure 9.4

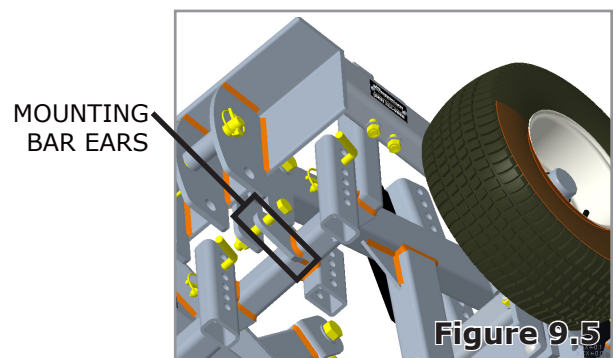


Figure 9.5

RASCAL: FOOD PLOT DISC INSTALLATION:

TO INSTALL LEFT AND RIGHT PLOT DISCS:

1. Grab tongue of unit and flip unit over backward so it sits on rake with tongue vertically upward (two people recommended to lift). Remove pins and tooling.
2. Slide Left Disc assemblies into the pockets on the left side of unit and Right Disc assemblies into the pockets on the right side of unit. (**Figure 10.3**)
 - Recommend pinning hole in disc shank closest to disc into lowest hole in pocket (farthest from main frame) (**Figure 10.4**).
 - Disc shanks must be slid into every other pocket with the shanks toward the inside and the discs facing outward of the unit so the discs will push the soil outward (**Figure 10.3**).
3. Raise wheels all the way up during disc operation. Lower wheels all the way down when transporting unit.

NOTE: Not compatible with Rascal LGR or Infield Rascal Pro Models.

NUMBER OF DISCS REQUIRED:

- 4.5' Rascal uses (1) Left Disc and (1) Right Disc. (~3.6' working width)
- 5.5' Rascal uses (2) Left Discs and (2) Right Discs. (~4.8' working width)
- 6.5' Rascal uses (2) Left Discs and (2) Right Discs. (~4.8' working width)
- 7.5' Rascal uses (2) Left Discs and (2) Right Discs. (~4.8' working width)

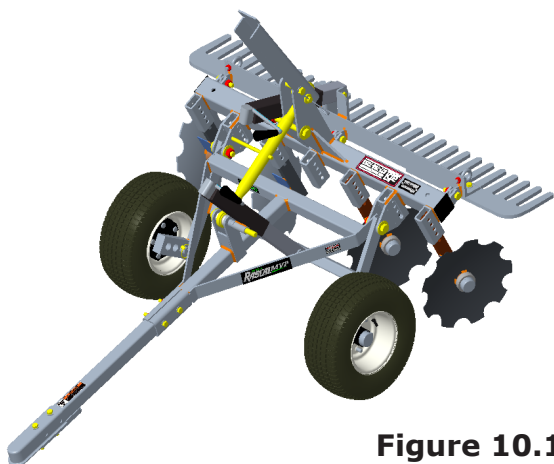


Figure 10.1

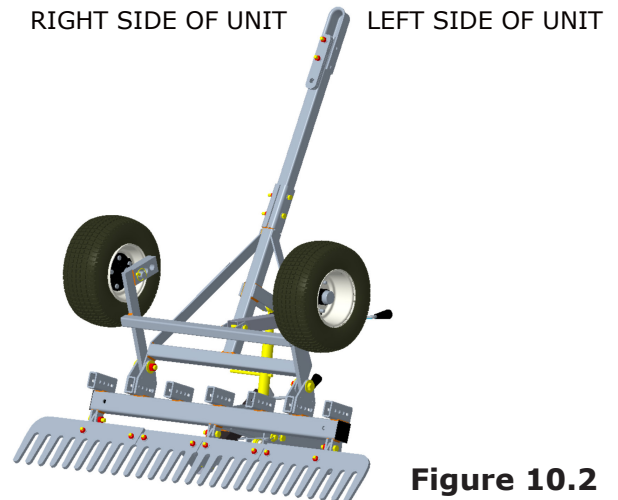


Figure 10.2

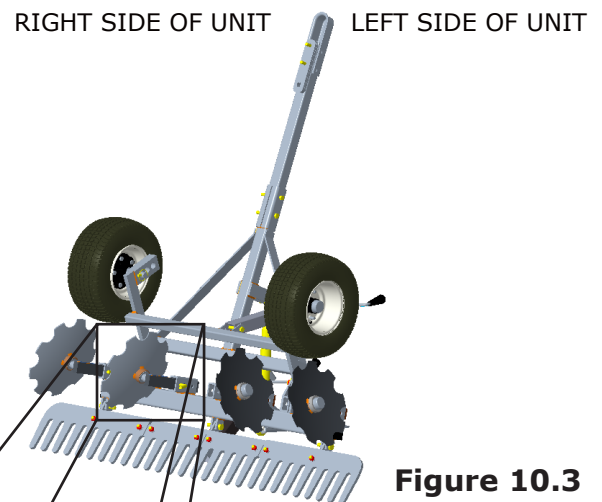


Figure 10.3

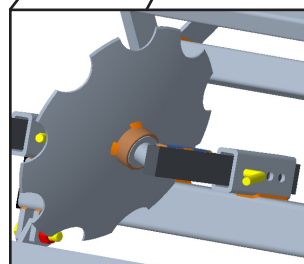
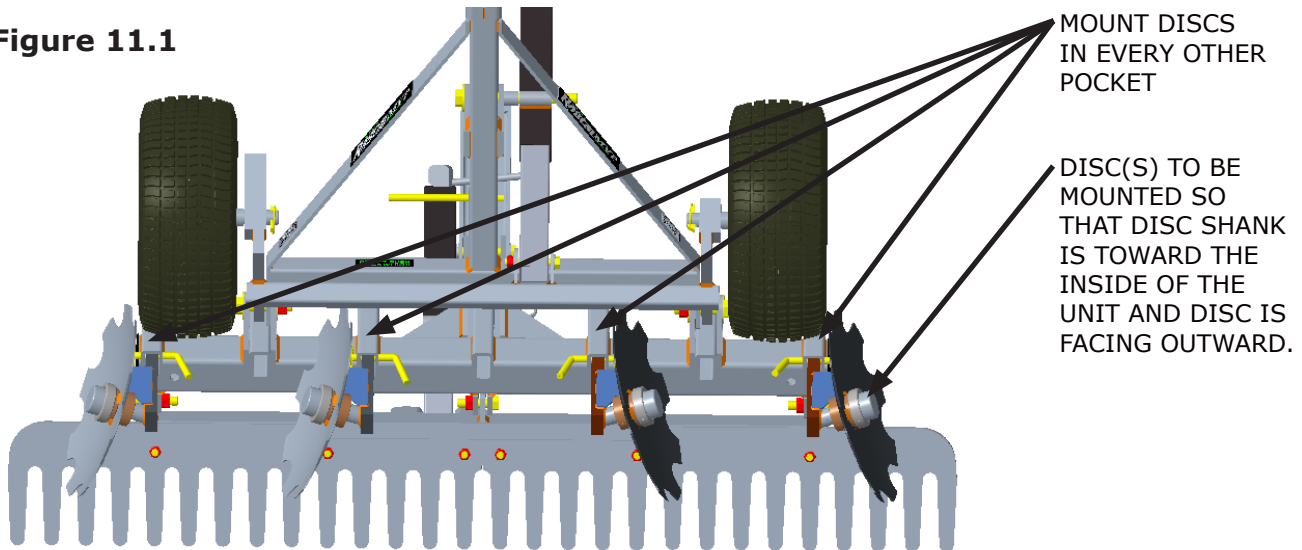


Figure 10.4

NOTE: PIN DISC SHANK IN LOWEST POCKET HOLE MOUNTED SO THAT THE DISC SHANK IS TOWARD THE INSIDE OF THE UNIT AND THE DISC IS FACING OUTWARD.

RASCAL: FOOD PLOT DISC INSTALLATION:

Figure 11.1



RASCAL: OPTIONAL WEIGHT BRACKET KIT:

NOTE: Suitcase weights not included, or sold by ABI Attachments, Inc.

If adding weight to the Rascal Unit is desired to sink the discs deeper into the material, a weight bracket kit (**10-90580**) can be purchased and mounted onto your unit. (**Figure 11.2**)

Two (2) 40 lb suitcase weights (**Figure 11.3**) can be purchased from a local tractor dealership, or Online, and mounted onto the weight bracket kit. (**Figure 11.4**)

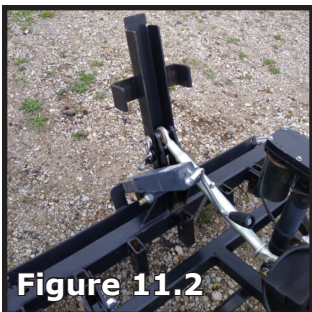


Figure 11.2



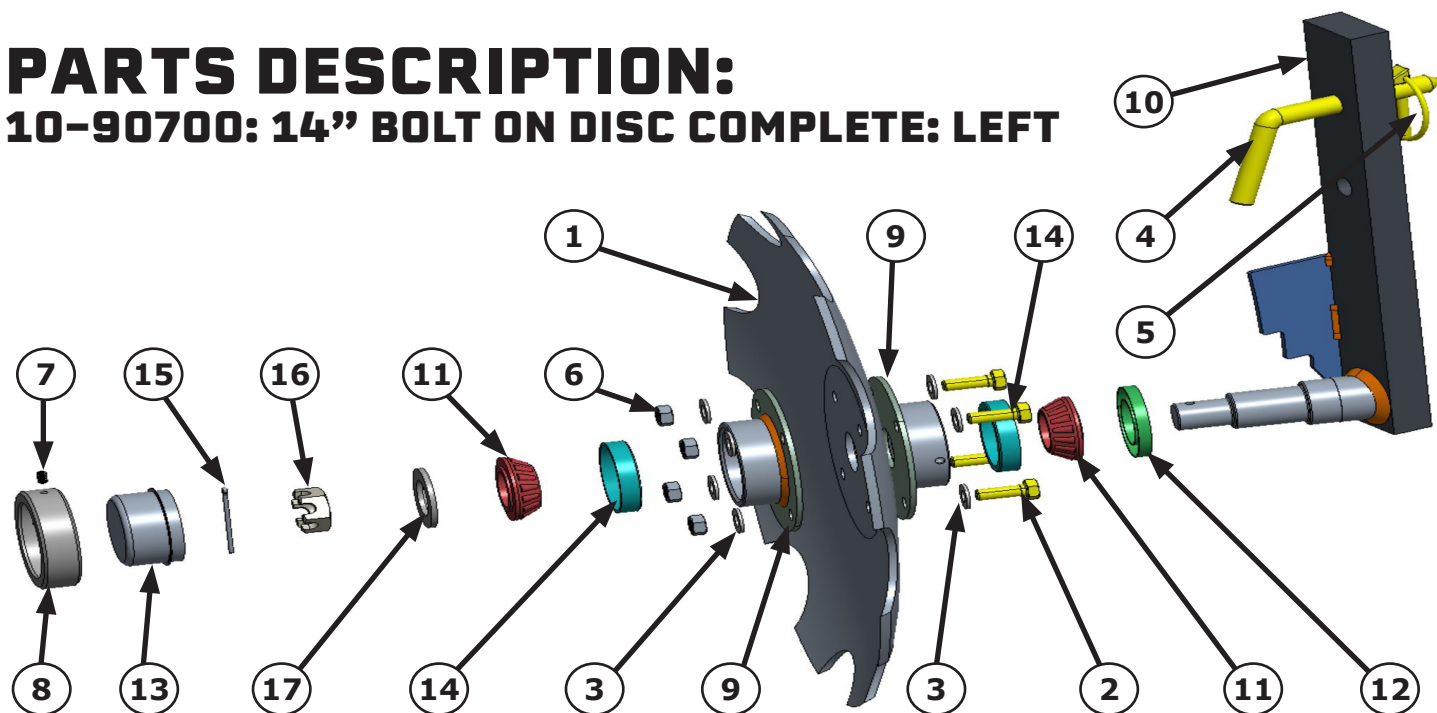
Figure 11.3



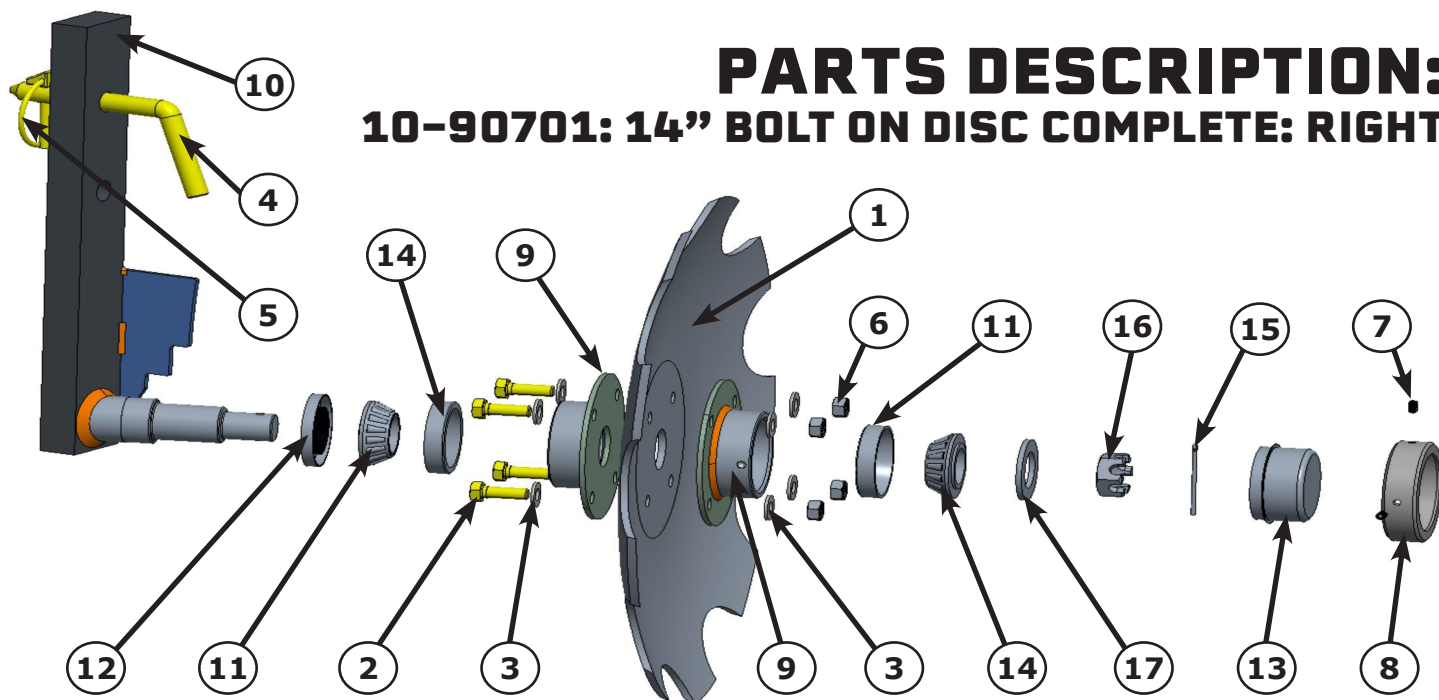
Figure 11.4

PARTS DESCRIPTION:

10-90700: 14" BOLT ON DISC COMPLETE: LEFT



ITEM	PART #	DESCRIPTION	QTY
1	10-11273	DISC: NOTCHED 14" X 4MM 5" FLAT CENTER, 4 ON 3.30", 1-1/8" PILOT, 5/16" RD BOLTS	1
2	10-20067	HX HD BOLT:5/16-18x1 ZINC GR5	4
3	10-20128	5/16 SAE WASHER ZNC	8
4	10-20221	BENT PIN:1/2"X3.5":ZINC	1
5	10-20232	LYNCH PIN:1/4"X1.25":ZINC	1
6	10-20639	LOCKNUT: STOVER: 5/16-18: ZINC	4
7	10-20652	SET SCREW: 10-32 X 5/16" SOCKET SET CUP POINT	2
8	10-32077	TUBE: 2.75" OD DISC HUB CAP RETAINER	1
9	10-40748	WLDMT: BOLT ON DISC HUB	2
10	10-40769	WLDMT: DISC - LEFT 20° SHANK/SPINDLE	1
11	10-60001	TAPERED ROLLER BEARING: 1" :#L44643	2
12	10-60011	DOUBLE LIP GREASE SEAL FOR 1" SPINDLE	1
13	10-60012	HUB DUST CAP	1
14	10-60014	RACE #L44610	2
15	10-60019	COTTER PIN STD. 1/8" x 1-3/4"	1
16	10-60091	NUT: CASTLE 3/4-16: SPINDLE	1
17	10-60092	WASHER: 3/4" SPINDLE WASHER	1



ITEM	PART #	DESCRIPTION	QTY
1	10-11273	DISC: NOTCHED 14" X 4MM 5" FLAT CENTER, 4 ON 3.30", 1-1/8" PILOT, 5/16" RD BOLTS	1
2	10-20067	HX HD BOLT:5/16-18x1 ZINC GR5	4
3	10-20128	5/16 SAE WASHER ZNC	8
4	10-20221	BENT PIN:1/2"X3.5":ZINC	1
5	10-20232	LYNCH PIN:1/4"X1.25":ZINC	1
6	10-20639	LOCKNUT: STOVER: 5/16-18: ZINC	4
7	10-20652	SET SCREW: 10-32 X 5/16" SOCKET SET CUP POINT	2
8	10-32077	TUBE: 2.75" OD DISC HUB CAP RETAINER	1
9	10-40748	WLDMT: BOLT ON DISC HUB	2
10	10-40768	WLDMT: DISC - RIGHT 20° SHANK/SPINDLE	1
11	10-60001	TAPERED ROLLER BEARING: 1" :#L44643	2
12	10-60011	DOUBLE LIP GREASE SEAL FOR 1" SPINDLE	1
13	10-60012	HUB DUST CAP	1
14	10-60014	RACE #L44610	2
15	10-60019	COTTER PIN STD. 1/8" x 1-3/4"	1
16	10-60091	NUT: CASTLE 3/4-16: SPINDLE	1
17	10-60092	WASHER: 3/4" SPINDLE WASHER	1

CONTACT INFORMATION:

ABI Attachments, Inc
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Mishawaka, IN 46544

CUSTOMER SUPPORT:

Phone: (877)788-7253
Hours: Monday - Friday | 9AM - 5PM EST
Email: support@abiattachments.com
Web: abisupport.com

For additional information on this equipment, or to order replacement parts, please contact our Customer Support Team at (877)788-7253 to speak with one of our representatives.

Warranty and return policy information can also be found on the ABI Support Page under each tool. For additional questions regarding warranty or return policy, please contact our Customer Support Team at (877)788-7253 to speak with one of our representatives.

