Operator’s Manual

3RT 2010
(3RT TRACK REMOVER)

CAUTION

READ & UNDERSTAND OPERATOR’S MANUAL BEFORE OPERATING MACHINE.

See www.summersmfg.com for latest version of all Summers Operator’s Manuals.

SUMMERS MANUFACTURING CO., INC.
WEB SITE: www.summersmfg.com

DEVILS LAKE, NORTH DAKOTA 58301
(701) 662-5391
Preface
This manual is intended for use with 3RT 2010 Track Remover for Summers® Manufacturing Com-
pany, Inc.

This book is composed of these basic sections: Safety, Operation & Maintenance, Troubleshooting
and Parts. The Operation & Maintenance section provides information for the proper operation and
maintenance of your Summers Track Remover. A complete Parts breakdown is provided in the Parts
section.

Parts are referenced in each drawing. Use this part number when ordering replacement parts from
your Summers dealer.

Disclaimer
It is the policy of this company to improve its products whenever possible and practical to do so. We
reserve the right to make changes or improvements in the design or construction of parts at any time
without incurring the obligation to install such changes on products previously delivered.

Summers Manufacturing Company, Inc. strongly recommends that each Track Remover operator
READ and UNDERSTAND the Operator’s Manual before using the machine. In addition, the Oper-
ator’s Manual should be REVIEWED at least Annually thereafter.

Contact Information
Summers Manufacturing Company, Inc.
103 Summers St. NW
Devils Lake, ND 58301
Toll Free: 1-800-732-4392
Local: 1-701-662-5391 (Devils Lake, ND)
1-605-226-3644 (Aberdeen, SD)
www.summersmfg.com

Scan code below for
the latest version of all
Summers Operator’s Manuals.

Owner Registration Information
Bring this information when ordering parts (Serial Number is located attached front of Track Re-
mo}{

Name ____________________________  Size ____________________________
Address ____________________________  Serial Number ____________________________
City ____________________________  Serial Number ____________________________ (located near front)
State/Prov. ____________________________  Date Purchased ____________________________
Mail Code ____________________________  Dealer ____________________________
Summers warrants only products of its manufacture against operational failure caused by defective materials or workmanship which occur during normal use within 36 months from the date by the end user from Summers’ dealer.

Summers’ obligation is to replace, free of charge, any part of the product that Summers inspection shows to be defective excluding transportation charges to Devils Lake, ND and return and also excluding all transportation costs from Summers’ dealer to the dealer’s customer and all other costs, such as removal and installation expense.

Summers shall not be liable for loss of time, manufacturing costs, labor, material, loss of profits, consequential damages, direct or indirect, because of defective products whether due to rights arising under the contract of sale or independently thereof, and whether or not such claim is based on contract, tort or warranty.

Written permission for any warranty claim return must be first obtained from authorized Summers’ personnel. All returns must be accompanied with a complete written explanation of claimed defects and the circumstances of operational failure.

Written warranty for all component parts used in the manufacture of Summers products is available upon request. Warranty of such component parts will be determined by said component manufacturer upon their inspection of the claimed defective part.

This express warranty is the sole warranty of Summers. There are no warranties, which extend beyond the warranty therein expressly set forth. The sales for products of Summers under any other warranty or guarantee express or implied is not authorized. This warranty voids all previous issues.

Summers® Manufacturing Co., Inc.
Devils Lake, ND 58301

01/16
Safety Information

This safety alert symbol is used to denote possible danger and care should be taken to prevent bodily injury. When you see this symbol it means ATTENTION, BECOME ALERT! and/or YOUR SAFETY IS INVOLVED!

WARNING: Safe practices must be followed when working on or operating this equipment. All personnel involved must:

- Read and understand the instructions and manuals for this machine.
- Be instructed in the safe use of tools and all lifting devices involved in the assembly of this equipment.
- Clear the area of all personnel not involved in the assembly of this machine.

General Safety Practices
1. READ and UNDERSTAND the Operator’s Manual before using any equipment. Review at least annually thereafter.

2. VERIFY all safety devices and shields are in place before using any equipment.

3. KEEP hands, feet, hair and clothing away from moving parts.

4. STOP engine, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, maintaining or unplugging.

5. BE CAREFUL when working around high pressure hydraulic system.

6. DO NOT ALLOW RIDERS.

Safety During Transportation
1. ONLY TOW at a safe speed. Use caution when making corners and meeting traffic.

2. USE safety chain between tractor drawbar and implement hitch when transporting on public roads.

3. ALWAYS use transport locks when transporting on public roads.

4. COMPLY with local lighting, marking and oversize regulations when transporting on highways.

5. FREQUENTLY check for traffic from rear, especially during turns.
Safety Decals

**DANGER**
Indicates an immediate hazardous situation that will result in death or serious injury. The color associated with Danger is RED.

**WARNING**
Indicates a potentially hazardous situation that could result in death or serious injury. The color associated with Warning is ORANGE.

**CAUTION**
Indicates a potentially hazardous situation that may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

**NOTICE**
The Notice decals and statements in this manual are to inform the operator of the correct fluids or operational practices for this machine. Failure to follow these notices will result in damage to the machine. The color associated with Notice is GREEN.

1. Keep safety signs clean and legible at all times.
2. Replace safety signs that are missing or have become illegible.
3. Replaced parts that displayed a safety sign should also display the current sign.
4. Safety signs are available from your dealer’s parts department or the factory.

**How to install safety signs?**

1. Be sure that the installation area is clean and dry.
2. Be sure the temperature is above 50° F (10° C).
3. Decide on the exact position before removing the backing paper.
4. Remove the smallest portion of the split backing paper.
5. Align the sign over the specified area and carefully press the small portion with the exposed sticky backing in place.
6. Slowly peel back the remaining paper and carefully smooth the remaining portion of the sign in place.
7. Small air pockets can be pierced with a pin and smoothed out using the piece of sign backing paper.
Safety

General Maintenance Safety Practices

NOTE: Read the entire section before beginning work.

Before You Begin

• **YOU ARE RESPONSIBLE** for the safe maintenance of the Track Remover.

• **DO NOT ALLOW CHILDREN** or other unauthorized persons within the Track Remover operational area.

• **WEAR PERSONAL PROTECTIVE EQUIPMENT** which could include a hard hat, eye protection, rubber gloves and steel toed boots with slip resistant soles.

• **DO NOT MODIFY** the equipment or substitute parts in any way. Unauthorized modifications may impair the function and/or safety of the machine.

• **USE SUITABLE LIFTING DEVICE** for components which could cause personal injury.

• **BLOCK UP ANY RAISED PART** of the machine. Be sure machine is stable after blocking.

• **ALWAYS INSPECT LIFTING CHAINS AND SLINGS** for damage or wear.

• **BE SURE LIFTING DEVICE IS RATED TO HANDLE THE WEIGHT.**

• **STOP ENGINE**, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop before servicing or adjusting. For plumbing repairs make sure valves are closed to avoid water or chemical spills.

• **BE SURE PRESSURE IS RELIEVED** from hydraulic circuits before servicing or disconnecting from tractor.

• **USE EXTREME CARE** when assembling, servicing or adjusting.
Operation Safety


2. VERIFY that all safety devices and shields are in place before using machine.

3. KEEP hands, feet, hair and clothing away from moving parts.

4. STOP engine, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, maintaining or unplugging.

5. BE CAREFUL when working around high pressure hydraulic system and farm chemicals.

6. ALWAYS make sure that pressure is relieved from hydraulic circuits before servicing or disconnecting from tractor.

7. DO NOT ALLOW RIDERS.

8. USE EXTREME CARE when making adjustments.

9. KEEP CHILDREN AWAY from machinery at all times.

10. NEVER ALLOW anyone to walk or work under a raised piece of equipment without installing cylinder and transport locks.

Steps Prior to Operation

1. COMPLETE WARRANTY REGISTRATION CARD

   A. Complete and return WARRANTY REGISTRATION CARD located at the beginning of this manual. RETURNING CARD ENTITLES YOU TO A FREE GIFT.

   B. Complete the OWNER REGISTER also located at the beginning of this manual (Serial Number is located on base piece). OWNER REGISTER INFORMATION MAY BE NEEDED WHEN ORDERING PARTS.
Operation

Note: This implement is designed for use with Category III or IV 3-Point hitches ONLY. Adapter sleeves are provided when attaching to a Category IV hitch.

Leveling

1. With implement securely attached to 3-Point hitch, and parked on flat, level ground, lower the implement until it is resting on the ground.

2. Recommended initial setting is level front-to-rear. If rear is higher, lengthen top-link. If front is higher, shorten top-link.

3. Once in the field, if more soil movement is desired, shorten the top-link in increments of ¼. For additional soil movement see Pages 20 & 21 for changing blade aggressiveness.
Maintenance Safety

1. **STOP** engine, place all controls in neutral, set parking brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting or maintaining.

2. **BE CAREFUL** when working around high pressure hydraulic system.

3. **ALWAYS** make sure that pressure is relieved from hydraulic circuits before servicing or disconnecting from tractor.

4. **USE EXTREME CARE** when making adjustments.

5. **KEEP CHILDREN AWAY** from machinery at all times.

6. **NEVER ALLOW** anyone to walk or work under a raised piece of equipment without installing cylinder and transport locks.

**PROPER BOLT USE**

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

<table>
<thead>
<tr>
<th>BOLT SIZE</th>
<th>WRENCH SIZE</th>
<th>GRADE 5</th>
<th>GRADE 8</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ft-lbs</td>
<td>N • m</td>
</tr>
<tr>
<td>1/4&quot;</td>
<td>7/16&quot; or 3/8&quot;</td>
<td>7</td>
<td>9.5</td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>1/2&quot;</td>
<td>15</td>
<td>20</td>
</tr>
<tr>
<td>3/8&quot;</td>
<td>9/16&quot;</td>
<td>30</td>
<td>41</td>
</tr>
<tr>
<td>7/16&quot;</td>
<td>5/8&quot; or 11/16&quot;</td>
<td>45</td>
<td>61</td>
</tr>
<tr>
<td>1/2&quot;</td>
<td>3/4&quot;</td>
<td>70</td>
<td>95</td>
</tr>
<tr>
<td>9/16&quot; wheel bolts</td>
<td>7/8&quot;</td>
<td>170</td>
<td>231</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>15/16&quot;</td>
<td>170</td>
<td>231</td>
</tr>
<tr>
<td>5/8&quot; wheel nuts</td>
<td>1-1/16&quot;</td>
<td>240</td>
<td>325</td>
</tr>
<tr>
<td>3/4&quot;</td>
<td>1-1/16&quot;* or 1-1/8&quot;</td>
<td>250</td>
<td>339</td>
</tr>
<tr>
<td>7/8&quot;</td>
<td>1-5/16&quot;</td>
<td>350</td>
<td>475</td>
</tr>
<tr>
<td>1&quot;</td>
<td>1-1/2&quot;</td>
<td>450</td>
<td>610</td>
</tr>
<tr>
<td>1-1/4&quot;</td>
<td>1-7/8&quot;</td>
<td>500</td>
<td>678</td>
</tr>
<tr>
<td>1-1/2&quot;</td>
<td>2-1/4&quot;</td>
<td>570</td>
<td>773</td>
</tr>
<tr>
<td>2&quot;</td>
<td>3-1/8&quot;</td>
<td>1200</td>
<td>1627</td>
</tr>
</tbody>
</table>

*Nylon Lock Nut*

*SAE GRADE 5*

*SAE GRADE 8*
SEE PAGES 20 & 21 FOR ADJUSTMENT ANGLES

90" C-C LAYOUT
SEE PAGES 20 & 21 FOR ADJUSTMENT ANGLES

120" C-C LAYOUT

120° C-C LAYOUT

77 1/4°

43°

46°

74°

0°

120°
SEE PAGES 20 & 21 FOR ADJUSTMENT ANGLES

132" C-C LAYOUT

132" C-C LAYOUT

83 1/4"

49"

49"

83 1/4"
90" C-C LAYOUT
TRACK REMOVER PLUS

SEE PAGES 20 & 21 FOR
ADJUSTMENT ANGLES

NOTE:
WHEN CONVERTING FROM A STANDARD TRACK
REMOVER, SOME PART LOCATIONS WILL CHANGE
120" C-C LAYOUT TRACK REMOVER PLUS

NOTE: WHEN CONVERTING FROM A STANDARD TRACK REMOVER, SOME PART LOCATIONS WILL CHANGE

SEE PAGES 20 & 21 FOR ADJUSTMENT ANGLES
NOTE: WHEN CONVERTING FROM A STANDARD TRACK REMOVER, SOME PART LOCATIONS WILL CHANGE.
SEE PAGES 20 & 21 FOR ADJUSTMENT ANGLES.
SEE PAGES 20 & 21 FOR ADJUSTMENT ANGLES

150" C-C LAYOUT

8Z1065  © Summers Mfg. Co., Inc. 2018  Page 17
Parts Ordering Procedure

When ordering parts for your Summers 3RT Track Remover, please contact an authorized Summers dealer in your area. If the parts are associated with a possible warranty claim, make sure that you contact the original dealer from which you purchased the Summers implement. Make sure to provide the Summers implement model, Serial number, Part number, Part description and quantity.
Parts

ITEM  PN  ITEM  PN
1  8B1150P  25  8K4400
2  8B1152  26  8K4440
3  8B2000P  27  8K4922S
4  8B2002P  26  8K4946
5  8B2005P  29  8K5505
6  8B2007P  30  8K5515
7  8B2015  31  8K9220
8  8B2017  32  8K9230
9  8B2020  33  8X0111
10  8B2022  34  8X0113
11  8B2030  35  8X0118
12  8B2035  36  8X0119
13  8B2037  37  8X0120
14  8CC1510  38  8X0122
15  8CC1620  39  8X0145
16  BJ0192  40  8X0260
17  BJ2252NL  41  8X0265
18  BJ2252NR  42  8X0266
19  BJ2272NR  43  8X0268
20  BJ3236  44  8X0306
21  BJ3276  45  8X0309
22  8K4200  46  8X0318
23  8K4210  47  8X0492
24  8K4220  48  8X0500

4/17/2018  9B1508.iam/3RT TRACK REMOVER
### Parts

**ITEM** | **PN**
---|---
1 | 7B0210
2 | 7B0214
3 | 7CC0450
4 | 7K3862
5 | 8CC1562
6 | 8D5240
7 | 8D5246
8 | 8D5250
9 | 8K7343
10 | 8D5240
11 | 8D5244
12 | 8D5248
13 | 8CC1587
14 | 8D5247
15 | 8CC1615
16 | 8D5214
17 | 8K4400
18 | 8K4925
19 | 8X0118
20 | 8X0119
21 | 8X0122
22 | 8X0260
23 | 8X0265
24 | 8X0306

---

**5° POSITION**

**8° POSITION**

**12° POSITION**

---

4/17/2018 3 RT TRACK REMOVER TWIN DISK
## Parts

### Item Details

<table>
<thead>
<tr>
<th>Item</th>
<th>PN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>7B0210</td>
</tr>
<tr>
<td>2</td>
<td>7B0214</td>
</tr>
<tr>
<td>3</td>
<td>7CC0450</td>
</tr>
<tr>
<td>4</td>
<td>7K3862</td>
</tr>
<tr>
<td>5</td>
<td>8CC1587</td>
</tr>
<tr>
<td>6</td>
<td>8CC1592</td>
</tr>
<tr>
<td>7</td>
<td>8CC1615</td>
</tr>
<tr>
<td>8</td>
<td>8D5214</td>
</tr>
<tr>
<td>9</td>
<td>8D5240</td>
</tr>
<tr>
<td>10</td>
<td>8D5242</td>
</tr>
<tr>
<td>11</td>
<td>8D5243</td>
</tr>
<tr>
<td>12</td>
<td>8D5244</td>
</tr>
<tr>
<td>13</td>
<td>8D5246</td>
</tr>
<tr>
<td>14</td>
<td>8D5247</td>
</tr>
<tr>
<td>15</td>
<td>8D5250</td>
</tr>
<tr>
<td>16</td>
<td>8K7343</td>
</tr>
<tr>
<td>17</td>
<td>8K4400</td>
</tr>
<tr>
<td>18</td>
<td>8K4922S</td>
</tr>
<tr>
<td>19</td>
<td>8X0118</td>
</tr>
<tr>
<td>20</td>
<td>8X0119</td>
</tr>
<tr>
<td>21</td>
<td>8X0122</td>
</tr>
<tr>
<td>22</td>
<td>8X0260</td>
</tr>
<tr>
<td>23</td>
<td>8X0265</td>
</tr>
<tr>
<td>24</td>
<td>8X0306</td>
</tr>
</tbody>
</table>

### Diagram

- **5° Position**
- **8° Position**
- **12° Position**

---

**3RT TRACK REMOVER TWIN DISK - LEFT**

4/17/2018
GANG ASSEMBLY

LEFT

CUTTING EDGE TO LEFT
NOTCH TO RIGHT

RIGHT

NOTCH TO LEFT
CUTTING EDGE TO RIGHT

4/17/2018  GANG 5 BLADE - LFT AND RIGHT
History of Summers Manufacturing Co., Inc.

1965 – Summers Manufacturing is founded by Harley Summers, who purchases patent rights for Goebel truck and pickup hoists from the Goebel Brothers of Lehr, ND. These hoists, produced in Harley Summers’ blacksmith shop the first year, were distributed nationwide by a Cincinnati, Ohio, dealer. With increasing sales, the company soon outgrows the small shop. Summers wins the Herman harrow contract, beginning the company’s Herman culti-harrow line. Summers builds a 7,200 square-foot factory in Maddock to meet the demand for truck and pickup hoists, as well as Herman harrows.

1969 – Firm incorporates and becomes officially known as Summers Manufacturing Company, Inc.

1970 – Summers purchases rights to manufacture/market the Herman Harrow.

1973 – Company builds new 20,000 square-foot plant and offices in Maddock, adding a 20,000 square-foot assembly plant in the fall of 1975 (completed in January 1976), bringing total square footage of Maddock factories to 47,000.

1977 – Summers introduces the Agri-sprayer, used in conjunction with the Herman culti-harrow to incorporate herbicides and liquid fertilizer.

1980 – Company purchases manufacturing and distributing rights to Crown rockpickers from Crown Manufacturers of Regina, Saskatchewan. This forces another expansion project – a 26,000 square foot factory on a 24 acre site in Devils Lake, ND Industrial Park.

1981 – Company establishes a branch facility in Regina, Saskatchewan.

1982 – Devils Lake plant begins operations in January, manufacturing supersprayers and rockpickers. The Maddock factory begins producing the Superweeder, a combination cultivator and harrow.

1983 – Summers buys manufacturing and distributing rights to the Fargo Field Sprayer line from Mid America Steel (formerly Fargo Foundry), Fargo. This field sprayer line is manufactured at the Devils Lake plant. Harley Summers is selected North Dakota’s small-businessman of the year by the Small Business Administration.

1984 – Herman Diamond Disk, a disk harrow made in a diamond shape to reduce blade breakage from rocks, comes off the assembly line.

1985 – Summers signs a contract with Melroe Company of Bismarck to obtain exclusive manufacturing rights to the Melroe harrow line.

1989 – Summers purchases TorMaster Company of Hordean, Manitoba, giving the company a line of rolling packer equipment, comprised of harrow packers and hydraulic fold coil packers.

1992 – A new engineering office/parts department is added to the Devils Lake factory.

1993 – Company adds two new products: a pickup-mounted sprayer with booms of 80 and 90 feet, and the Summers Superharrow, an extra-duty residue-management tool designed for the minimum and no-till farmer.

1994 – A 50 by 125 foot addition to the Maddock factory is completed. Construction begins on a 24,576 square-foot addition to the Devils Lake factory, which enables the company to increase production of truck-mounted and pull-type supersprayers and rockpickers.

1996 – 1500 square foot office area added to the Maddock plant. Company introduces Chisel Plow with floating hitch and 700# trip assembly.

1997 – 16,800 square foot warehouse in Maddock purchased from local business.

1999 - Company introduces the Ultimate suspended boom trailer sprayer with hydraulic folding booms. Additional sizes added to the Chisel Plow line, now ranging from 28’ to 54’.

2000 - Company introduces the Supercoulter, the innovative solution for excessive field residue management on no-till, minimum-till, and conventional-till farming operations.

2001 - Cold storage building completed at Devils Lake. Company extends boom lengths up to 110 feet on the Ultimate Supersprayer.

2002 - Company adds a warehouse and service man in Aberdeen, SD.

2003 - Company introduces the Ultimate NT Supersprayer featuring a bolt on axle for easier adjustment, and a new family of tanks that feature a drainable sump and a common width dimension.

2004 – A 124 ft. x 310 ft. addition is added onto the current Devils Lake plant.

2005 - The Summers Superroller is added to the “Field Tested Tough” product line. Additional sizes of 56’, 58’ and 60’ are added to the Superchisel line. Ultimate-Ultra NT Supersprayer introduced featuring 120’ & 133’ booms.

2006 - The Summers Coulter-Chisel, Rolling Choppers and 30’ Superroller were included in product line.

2007 - 62’ & 84’ 5 Section Landrollers and a 20’ Coulter-Chisel were introduced.

2008 - Disk-Chisels, ranging from 16’ to 40’ widths, are added to product line.


2010 – Rolling Basket and 47” Diamond Disk added to product line. A 124 ft. x 310 ft. addition to Devils Lake factory built for a state of the art paint system.

2011 – Additional Supercoulter sizes were added along with larger tires for tillage implements. Ultimate and Ultra Supersprayers received an additional tank size of 1650 gallons. Front Caster Wheel option was made available for chisel implements.

2012 – 41’, 46’ & 53’ Trail Type Landroller added to product line. Additional Superchisel sizes of 16’ & 20’ were added.


2014 – Introduced the VRT2530 (Variable Rate Tillage).

2015 – Introduced the VT Flex Applicator and Spray Fill Xpress. Expended Landroller sizes to include 15’ & 21’. Summers distributes on a wholesale level to dealers and distributors throughout markets in North Dakota, South Dakota, Minnesota, Montana, Iowa, Washington, Idaho, Oregon, Utah, Colorado, Kansas, Nebraska, Oklahoma, Texas, Manitoba, Saskatchewan, Alberta, British Columbia, Kazakhstan, Russia and Australia, making it an international company.