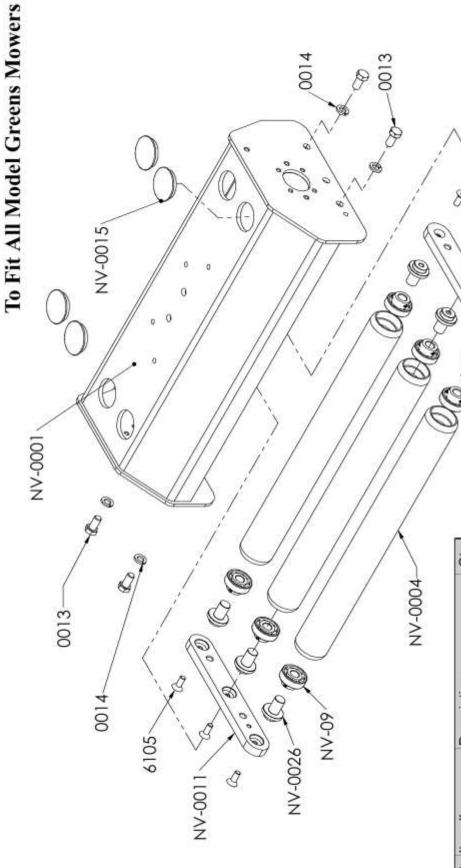
Base Unit Schematic True-Surface® NV 3x3TM



| 33P N | | | |
|-------|--------------|---------------------------|----|
| | NV-0001 | Roller Frame | က |
| | NV-0004-RevC | Solid Roller | თ |
| 33P N | NV-0011-RevC | Roller Bar | 9 |
| | 0013 | .5-13 X 1 Bolt | 12 |
| Е | 0014 | .5" Split Lock Washer | 12 |
| 33P N | NV-0015 | Snap-In Black Plugs | 12 |
| 33P N | NV-0026 | Roller Axle | 18 |
| 33P N | 60-NN | CSB-204-12 3/4" Bearing | 18 |
| H 67 | 6105 | 3/8 -16 x 1 Flat Head SCS | 18 |

-6105

NV-0011

NV-0026

-60-NN

NV 3 X 3 ASSEMBLY INSTRUCTIONS

The following 9 steps apply to ALL TRIPLEX MODELS (refer to page 1)

- 1) Any roller base can be attached to any frame assembly.
- 2) Locate four ½"-13x1" bolts (NV-0013) and four ½" spit lock washers (NV-0014) for each frame.
- 3) Set the frame assembly over top of the roller base so that the fore and aft $\frac{1}{2}$ " holes align, as well as the $\frac{5}{16}$ " holes near the forward holes.
- 4) Install the bolts and the washers as shown, and leave slightly loose.
- 5) Flip the unit upside down, and loosen all the bearing set screws (NV-09).
- 6) Tighten all four ½" bolts (NV-0013)
- 7) Position the rollers in the center of any free end-to-end travel there may be, and tighten all the set screws.
- 8) Return unit to upright position, and attach mower specific hardware.
- 9) Repeat for the remaining units.

TORO UNITS

Toro GM3 through GM3150 (refer to page 6)

- 1) Install the ball studs (7126-1) into the 5/16" threaded holes on each side of each unit.
- 2) Remove one flange nut (1026) from each side of the lift hook (7090), and install the lift hook through the protection plate (7802) and then through the two ½" holes in the top of the frame. Install the flanges nuts to the bottom of lift hook and tighten. (The hook height can be adjusted to best suit your ground and machine clearance needs).
- 3) Slide the roller under machine allowing the lift arm to pass through the lift hook, and then attach the ball couplers to ball studs (7126-1).
- 4) Mount the drive motors to frame end and secure. No drive power is required to run the unit, but it needs to be attached to protect the motor.

Toro GM 3200 A or B STYLE (refer to page 7 & 8)

- 1) Your rollers will come set up as either a 3200A or a 3200B: The difference between the A & B styles are the center point couplers. If the ball stud portion of the coupler is attached to the cutting or roller unit, it is considered an "A" STYLE. If the coupler or socket portion is attached to the cutting or roller unit, it is considered a "B" STYLE.
- 2) Remove one flange nut (1026) from each side of the lift hook (7090), and install the lift hook through the protection plate (7802) and then through the two ½" holes in the top of the frame. Install the flanges nuts to the bottom of lift hook and tighten. (The hook height can be adjusted to best suit your ground and machine clearance needs).
- 3) Attach the assembled tow bracket (NV-0023) to the front of the unit with 3/8" bolts (1000) provided. The "A" STYLE brackets will mount into the holes that will offset the bracket from the center. The "B" STYLE units will mount in the holes in the center of the frame.
- 4) Slide the roller under machine allowing the lift arm to pass through the lift hook (7090), and then attach the ball couplers to ball studs (7126-1).
- 5) Mount the drive motors to frame end and secure. No drive power is required to run the unit, but it needs to be attached to protect the motor.

TORO GM 3250 (refer to page 9)

- 1) While performing task #4 in the main instructions, locate and install one tow bracket # NV-0024 to each side facing forward, and install ½" frame bolt through it and then into roller base.
- 2) Install the 5/16" bolt and lock washer through the bracket and thread it into the roller base. Now, tighten all the bolts.
- 3) Install the ball stud (7126-1) through the front hole of mount with nut on the backside and tighten.

- 4) Remove one flange nut from each side on lift hook, and install lift hook through #7802 protection plate and then through the two ½" holes in the top of the frame, install flanges nuts on the bottom of lift hook and tighten. (Hook height can be adjusted to best suit your needs for ground and machine clearances).
- 5) Slide under machine allowing lift arm to pass through lift hook, and then attach the ball couplers to ball studs.
- 6) Mount drive motors to frame end and secure. No drive power is required to run the unit, but it needs to be attached to protect the motor.

JACOBSEN UNITS

Jacobsen Greensking III & IV (refer to page 10)

- 1) Locate lift bracket # 7056B, remove the four loose 5/16" bolts, set on top of roller frame into matching holes. Install nuts to the bottom of the bolts and tighten.
- 2) Remove ½" pivot bolt # 1004 from lift bracket, insert lift pin # 7518 into channel with the 3/8" pivot limiter bolt facing towards the forward portion of the roller, and reinstall bolt making sure that one spacer is on either side of lift pin. Install nut and tighten. (DO NOT OVERTIGHTEN, the pin needs to remain free for pivoting.)
- 3) Slide rollers under machine into respective positions, (LEFT, RIGHT or CENTER if applicable). Raise lift arm of machine and slide down over lift pin # 7518, and install retainer pin.
- 4) Mount drive motors to frame end and secure. No drive power is required to run the unit, but it needs to be attached to protect the motor.

Jacobsen Greensking V & VI (refer to page 11)

- 1) Locate the lift bracket (7056B), remove the four loose 5/16" bolts, set on top of roller frame into matching holes. Install nuts to the bottom of the bolts and tighten.
- 2) Remove ½" pivot bolt # 1004 from lift bracket, insert lift pin # 7518 into channel with the 3/8" pivot limiter bolt facing towards the forward portion of the roller, and reinstall bolt making sure that one spacer is on either side of lift pin. Install nut and tighten. (DO NOT OVERTIGHTEN, the pin needs to remain free for pivoting.)
- 3) Slide rollers under machine into respective positions, (LEFT, RIGHT or CENTER if applicable). Raise lift arm of machine and slide down over lift pin (7518), and install retainer pin.
- 4) Mount drive motors to frame end and secure. No drive power is required to run the unit, but it needs to be attached to protect the motor.

JACOBSEN/RANSOME UNITS

Jacobsen G-Plex II or III and ALL Ransome Units (refer to page 12)

- 1) Locate lift bracket (7086), remove the four loose 5/16" bolts, set on top of roller frame into matching holes. Install nuts to the bottom of the bolts and tighten.
- 2) Remove ½" pivot bolt # 1004 from lift bracket, insert lift pin (7517 or 7518) (depending on model) into channel with the 3/8" pivot limiter bolt facing towards the forward portion of the roller, and reinstall bolt making sure that one spacer is on either side of lift pin. Install nut and tighten. (DO NOT OVERTIGHTEN, the pin needs to remain free for pivoting.)
- 3) Install rubber bumpers and mounts into respective positions as shown in diagrams, so that the step in the mounting bracket rests on top of the frame end, install bolts provided and tighten.
- 4) Slide rollers under machine into respective positions, (LEFT, RIGHT or CENTER if applicable). Raise lift arm of machine and slide down over lift pin (7518 or 7517), and install retainer pin. (1 inch diameter washers included with units requiring a 1 inch diameter lift pin for spacing purposes between lift tube and lift pin if necessary).
- 5) Mount drive motors to frame end and secure. No drive power is required to run the unit, but it needs to be attached to protect the motor.

JOHN DEERE UNITS

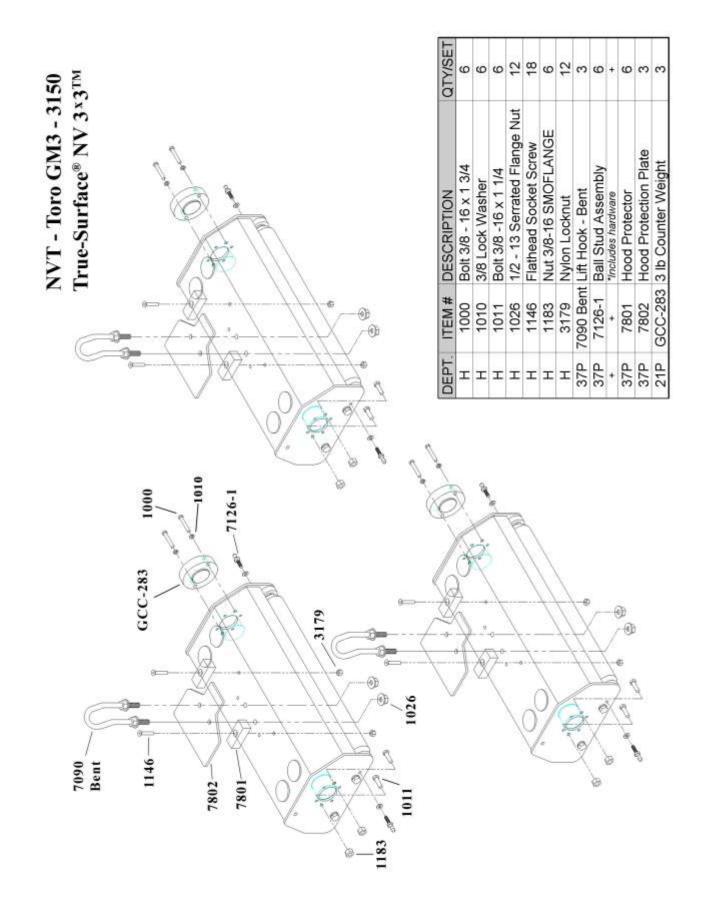
John Deere 2500 & 2500E (refer to page 13)

- 1) Locate the hitch assembly (7250-1), remove nuts from the four 5/16 loose bolts, align bracket and bolts with corresponding holes in roller frame, install nuts to bolts on underside of frame and tighten.
- 2) Slide rollers under machine into respective LEFT, RIGHT, and CENTER position, align (7254) swivel shaft with lift tube of machine, insert and install retainer pin.
- 3) Remove nut and washer from lifting bar at the rear of hitch assembly and attach lift chain at the appropriate length to allow optimal ground and machine clearance, and reinstall washer and nut.
- 4) Mount drive motors to frame end and secure. No drive power is required to run the unit, but it needs to be attached to protect the motor.

John Deere 2243 (refer to page 14)

- 1) The front units (LEFT & RIGHT) are similar except for the lift bars (7602L & 7602R). Locate attachment bracket assembly for each, remove the nut from the loose 5/16 bolts and align with the corresponding holes in top of roller frame.
- 2) Install the nuts on the underside of frame to the forward (1 inch long) bolts first, then align lift bar over the rear holes, install longer (1-1/2 inch long) bolts through lift bar, mounting plate and frame, and install nuts to the bottom and tighten all.
- 3) For center unit, do the same with all four bolts through the 7606 hitch assembly.
- 4) Slide rollers under machine into respective LEFT/RIGHT and CENTER position. For front units, align extension shaft (T-300) with swivel lift pin of machine, insert and install retainer pin.
- 5) For center unit, slide lift tube assembly (7609) over lift pin of machine and install retainer pin. Remove lock nut and washer from lifting bar, attach lift chain at the appropriate length to allow optimal ground and machine clearance, replace washer and nut.
- 6) Mount drive motors to frame end and secure. No drive power is required to run the unit, but it needs to be attached to protect the motor.

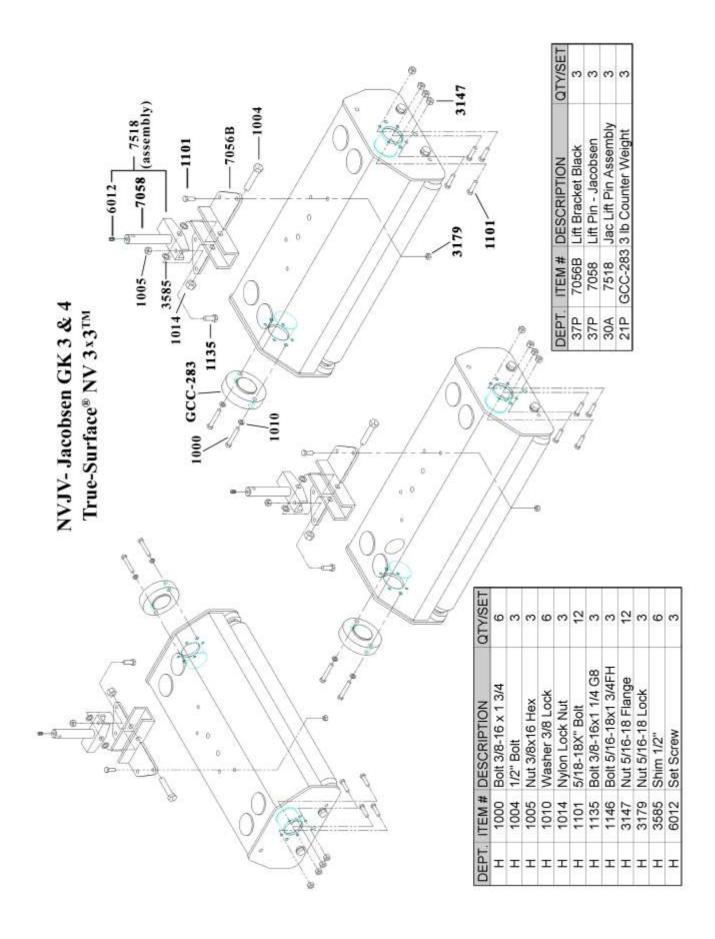
Refer to page 15 for your weight kit schematic (sold separately)

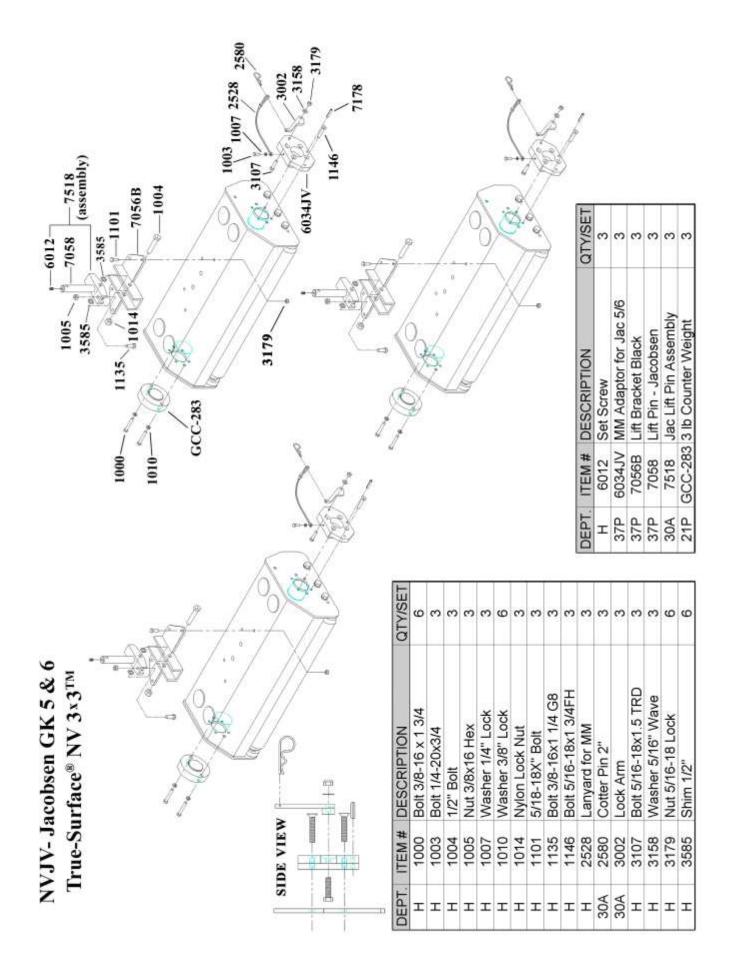


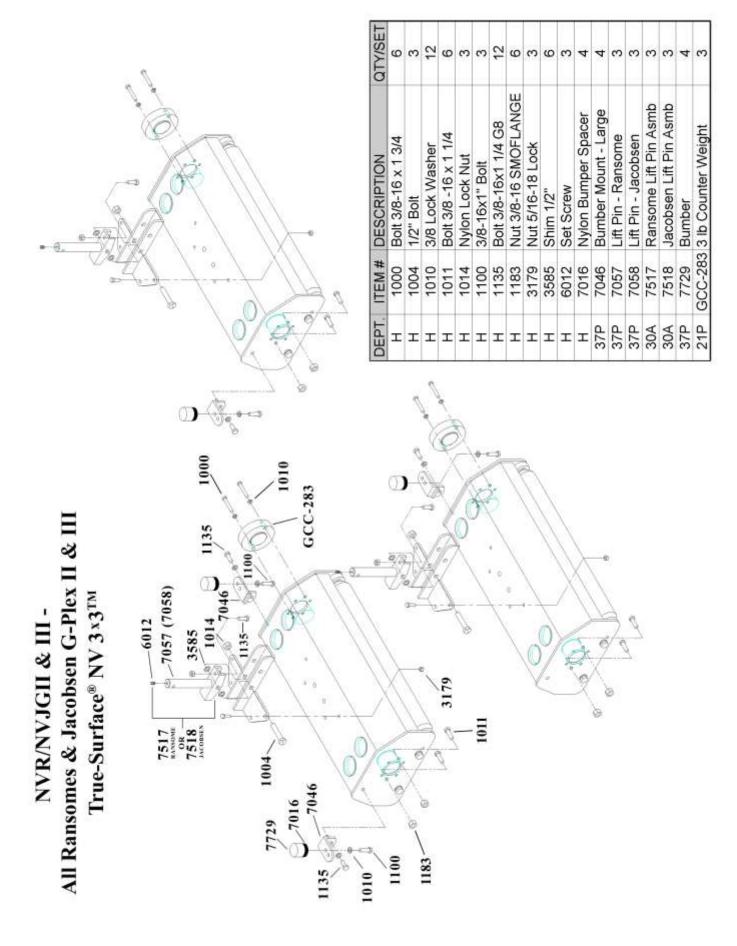
QTY/SE True-Surface® NV 3x3TM 17 12 9 9 0 00 NVT32A- Toro 3200A 1/2-13 Serrated Flange Nut Motor Stud 3/8 -16 x 1 1/4 NV0023 Tow Bracket 3200 A & B Bolt 3/8-16 x 1 G5 Hex Hood Protection Plate GCC-283 3 lb Counter Weight Bolt 3/8 - 16 x 1 3/4 Ball Stud for 3200A NV0023 3/8" Lock Washer 7117 Nut 1/2x20 Lock 3/8x16 Hex Nut DESCRIPTION 1100 GCC-283 7090 Bent Lift Hook 1115 ITEM # 7802 1000 1005 1010 1026 1100 1115 1011 1177 7090 Bent 1026 DEPT. 37P 37P 33P IIII I I II 101

True-Surface® NV 3x3TM NVT32B- Toro 3200B NV0023 3200C GCC-283 0101 7802 500 7090 Bent 1026 QTY/SET 909999990057900 1/2-13 Serrated Flange Nut Bolt 3/8-16 x 1 G5 Hex Nut 3/8-16 SMOFLANGE Tow Bracket 3200 A & B Hood Protection Plate Bolt 3/8 -16 x 1 1/4 3lb Counter Weight Bolt 3/8-16 x 1 3/4 3/8 Lock Washer 1/2 Lock Washer 3/8x16 Hex Nut Bolt 1/2 - 20 x 1 DESCRIPTION Quick Coupler 7090 Bent Lift Hook GCC-283 NV0023 3200C ITEM # 7802 1183 100 3183 3184 1011 37P 33P DEPT 37P 37P IIIIIII I

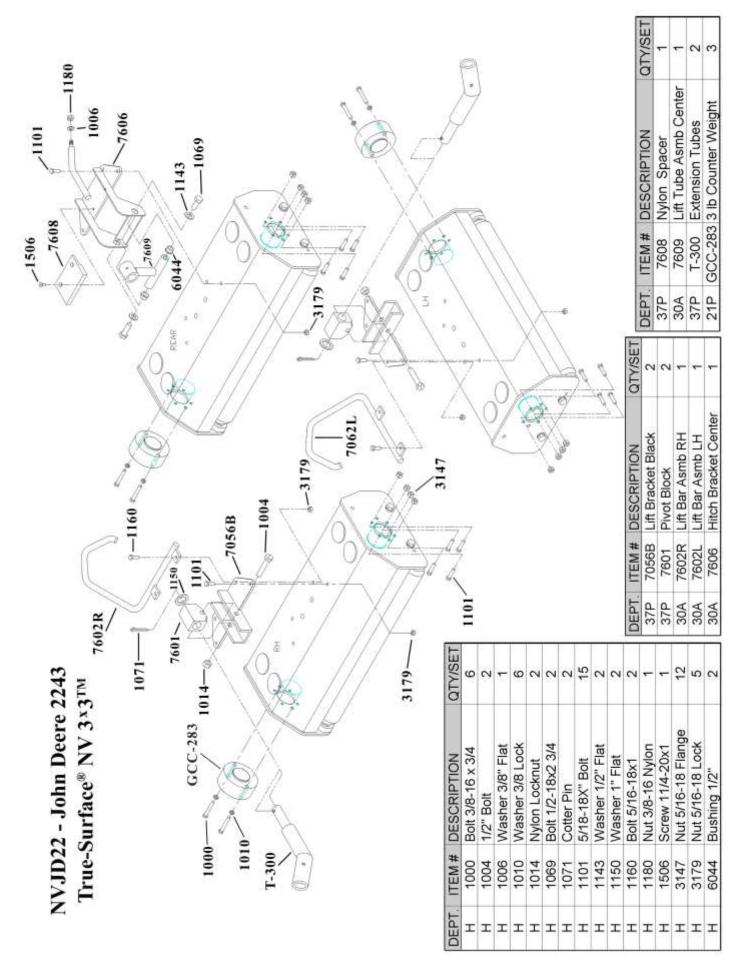
True-Surface® NV 3x3TM NVT325- Toro 3250 NV0024 GCC-283 1026 7090 Bent 3179 1008 7126-1 7802 QTY/SET 4 8 9 9 7 99 0 3 3 90 1183 101 1/2-13 Serrated Flange Nut Nut 3/8-16 SMOFLANGE Flathead Socket Screw Hood Protection Plate GCC-283 3 lb Counter Weight Ball Stud Assembly Bolt 3/8 -16 x 1 1/4 Bolt 3/8-16 x 1 3/4 3/8 Lock Washer Tow Braket 3250 Washer 1/4" Flat Nylon Lock Nut 7090 Bent Lift Hook - Bent DESCRIPTION "Includes hardware Bolt 1/2-13x1 NV0024 7126-1 3179 7802 1008 1010 1026 1146 1183 1011 1191 33P DEPT 37P 37P 37P IIIIIII I







SIDE VIEW NVJD25 - John Deere 2500 True-Surface® NV 3x3TM QTY/SE 99999999999999 3/8-16" x 2 1/2" Hex Bolt Hitch Frame - JD 2500 3/8-16" Nylon Locknut Bolt 5/16-18x1 3/4FH Jac Lift Pin Assembly GCC-285 5 lb Counter Weight 5/16-18" Lock Nut Swivel Shaft Hitch 3/8" Lock Washer 3/8" Flat Washer DESCRIPTION Lift Bar Spacer 5/18-18 Bolt Lift Bar Nut Set Screw 7255-1A Lift Bar 7255B ITEM # 7050W 7255C 3179 6014 7254 1010 1146 1180 1192 1101 DEPT 37P 30A IIIIII GCC-285 7255C 1192 3179 7255-1A 7254 6014 7050W 11011 1006 7255B



True-Surface® NV 3x3TM

Base Unit Schematic



