



MODEL 5550  
Tire Repair  
Station

Installation, Operation  
and Repair Parts  
Information



Branick Industries, Inc. • 4245 Main Ave • Fargo, North Dakota 58103

## TABLE OF CONTENTS

---

SAFETY INSTRUCTIONS	1
DEFINITIONS	1
INSTALLATION INSTRUCTIONS	2
OPERATING INSTRUCTIONS	2
MAINTENANCE INSTRUCTIONS	3
REPAIR PARTS	4-6
WARRANTY	7

## SAFETY INSTRUCTIONS

---

- NEVER allow unauthorized personnel to operate this product.
- NEVER use this product for anything other than its intended use.
- THOROUGHLY train new employees in the proper use and care of this product.
- PROHIBIT unauthorized personnel from being in shop area while this product is in use.

## DEFINITIONS

---

- **CAUTION:** Indicates a potentially hazardous situation, which if not avoided, may result in damage to property or minor personal injury.
- **WARNING:** Indicates a potentially hazardous situation, which if not avoided, may result in death or serious personal injury.
- **HAZARD:** A source of potential injury to a person.
- **MAINTENANCE:** Those actions that preserve the correct and proper conditions under which the machine shall be used. This may include adjustment, replacement of wear items, lubrication and cleaning, but not modifications or repair of damage.
- **MAY:** This word is understood to be permissive.
- **MUST:** This word is understood to be mandatory.
- **OPERATION:** The correct and proper use of the machine as described in this manual.
- **SAFETY ALERT SYMBOL:** A symbol that indicates a potential personal safety hazard. It is composed of a triangle surrounding an exclamation point.
- **SHALL:** This word is understood to be mandatory.
- **SHOULD:** This word is understood to be advisory.

## CAUTION

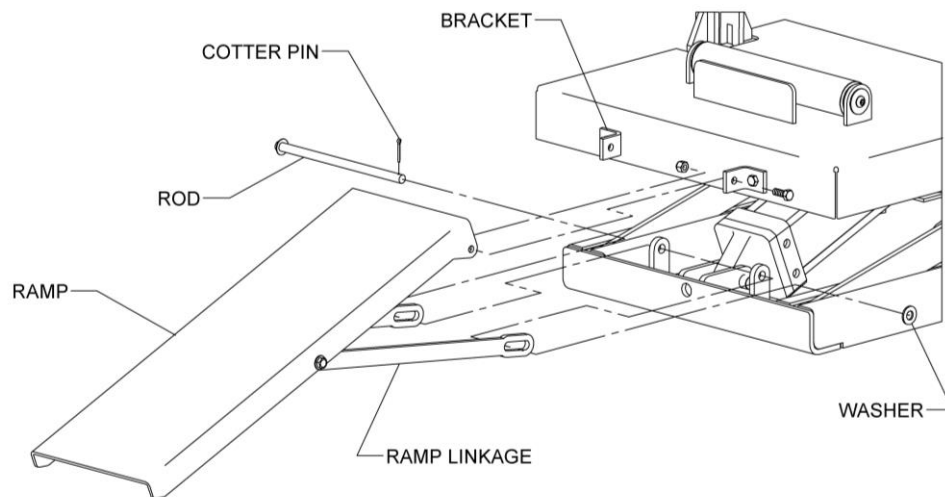
- ◆ Before using this product, read and fully understand the operating instructions and all decals on the product. This is necessary to prevent injury to the operator and damage to the product.
- ◆ Use this product only for lifting, spreading and repairing tire casings. Do not use this product for any other purpose.
- ◆ Keep fingers and hands clear of spread hooks during tire spread.
- ◆ Do not use this product if it is visibly worn, distorted or damaged.
- ◆ Always wear appropriate eye protection.

## WARNING

- ◆ Keep feet clear of the tire ramp and scissor arms when raising and lowering spreader platform.
- ◆ All personnel must be clear of the tire lift area during operation.

### ***INSTALLATION***

- 1) Position the Model 5550 on a solid level floor, leaving adequate clearance to operate the machine.
- 2) Attach the ramp and ramp linkage to the front of the Model 5550. Use the supplied 3/8" bolts and lock nuts to attach the ramp to the brackets on the end of the platform. Slide the linkage rod through the linkages and mounts at the base of the unit with the linkages on the outside of the mounts. Place the supplied washer over the end of the rod and insert the cotter pin, bending the tabs to secure the pin.
- 3) Attach a 1/4" NPT quick coupler nipple (not provided) into the in-line filter located on the base frame below the tool tray. Use a 1/4" air hose with a supply pressure of no more than 150 psi maximum.



## **OPERATION**

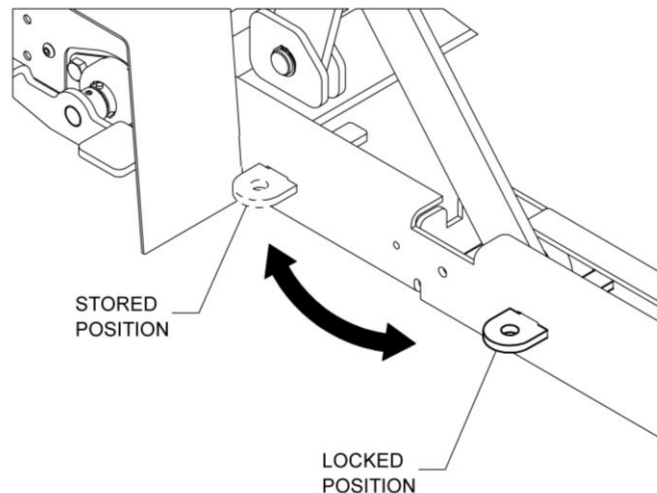
---

- 1) Rotate the spread hooks out into the upright position.
- 2) Make sure the spreader platform is in the lowest position. If not lower it using the foot pedals.
- 3) Roll the tire up the ramp and onto the platform rollers. Steady the tire with your hand while placing the spread hooks over the tire bead.
- 4) Raise the spreader platform to a comfortable working height using the foot pedals.
- 5) To adjust the spread hooks to the proper height, pull out on the locking pin knob and move the adjustable posts to the correct height. Release the knob and ensure the post is locked. Most large truck tires use the uppermost adjustment hole. Both posts must be adjusted to the same height.
- 6) Spread the tire to the desired width using the hand levers at the rear of the platform. If the tire lifts off the rollers when spread, adjust the posts to a lower position.
- 7) After the tire repairs are complete, lower the platform to its lowest position.
- 8) Release the pressure on the spread arms and lift the hooks out of the tire.
- 9) Steady the tire and roll it down the ramp using both hands.

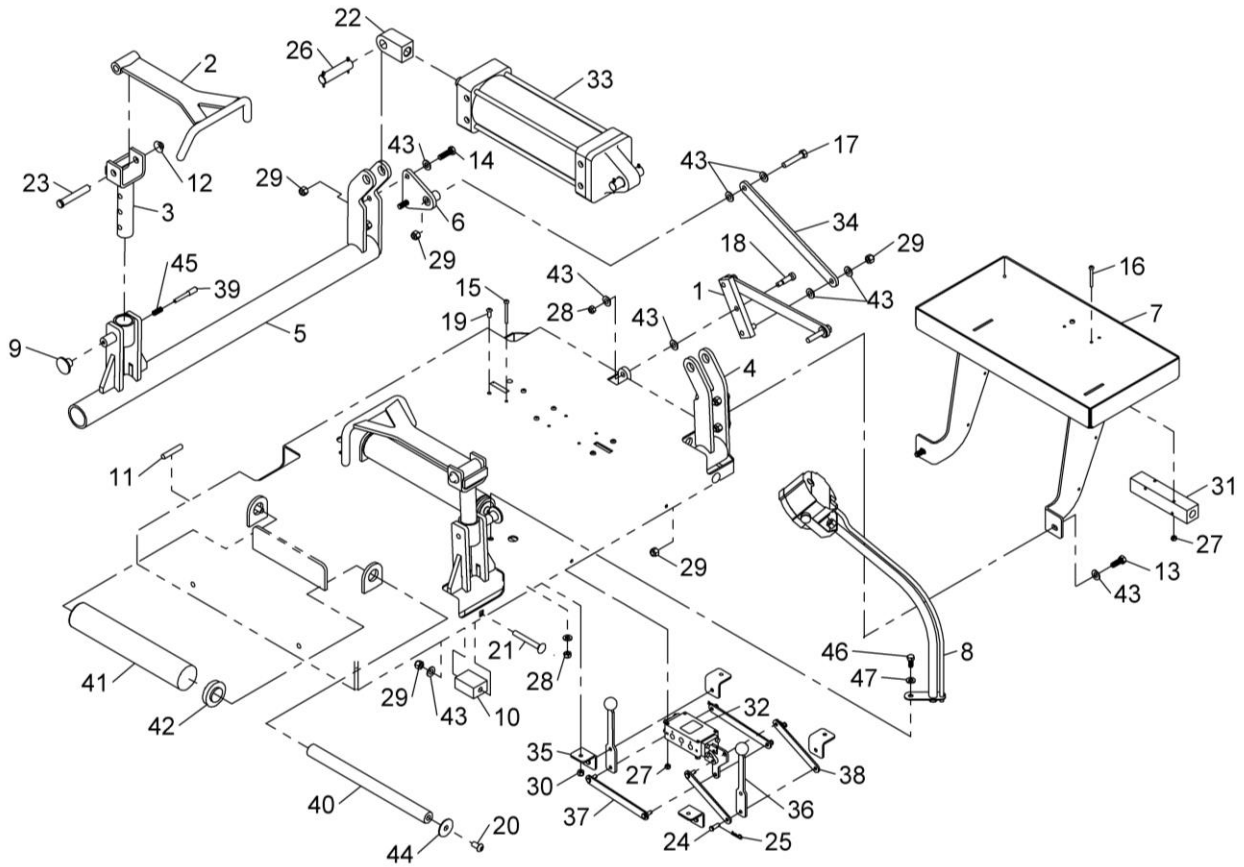
## **MAINTENANCE**

---

If maintenance is required, a Locking Key is supplied to hold the platform in the raised position. Keys are located on both sides of the spreader base frame. To use, raise the platform to its highest position and insert the Key into the locked position. The platform will remain in this position when air is disconnected. Do not remove the Key until the air supply is restored. Replace the key in the stored position when maintenance is complete.

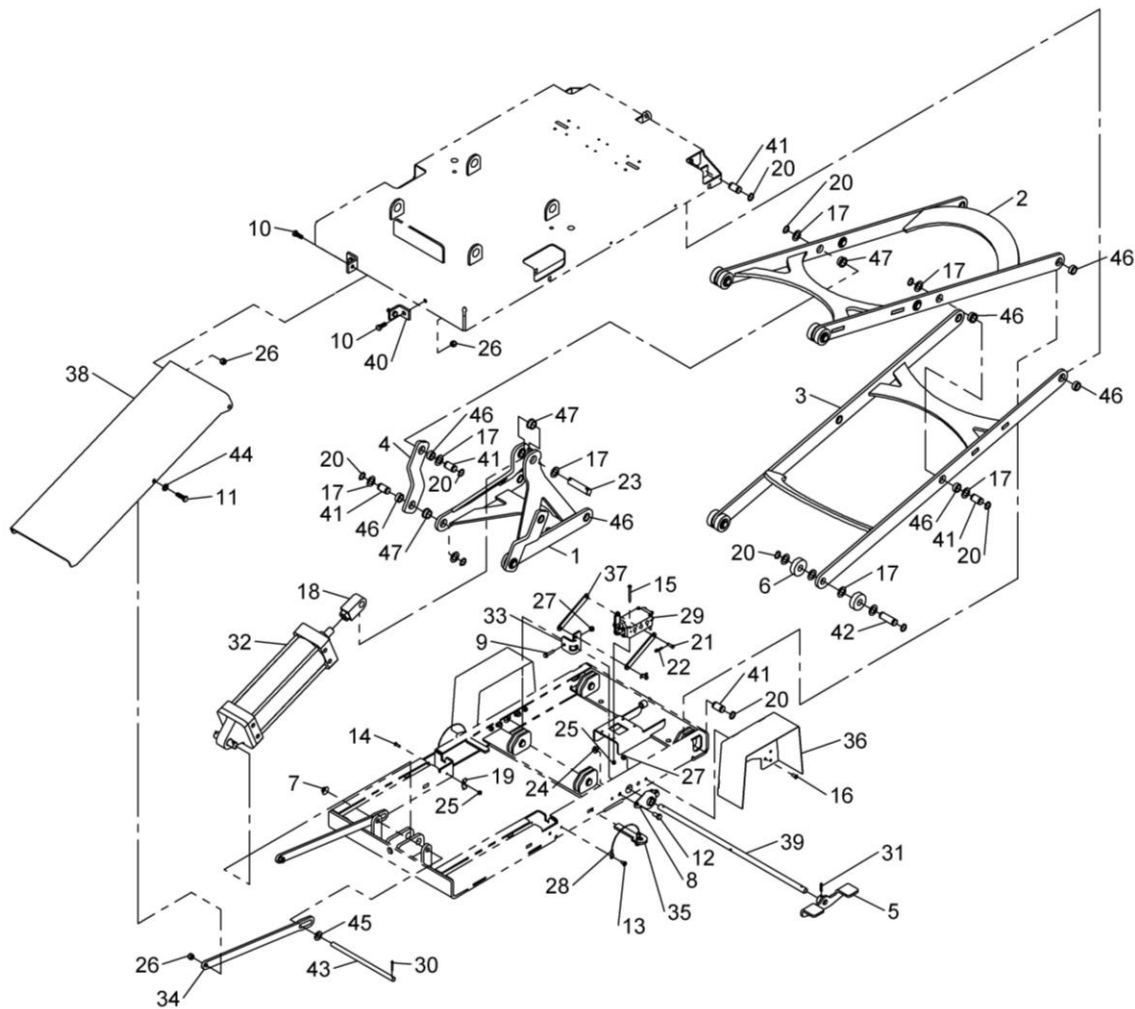


# REPAIR PARTS



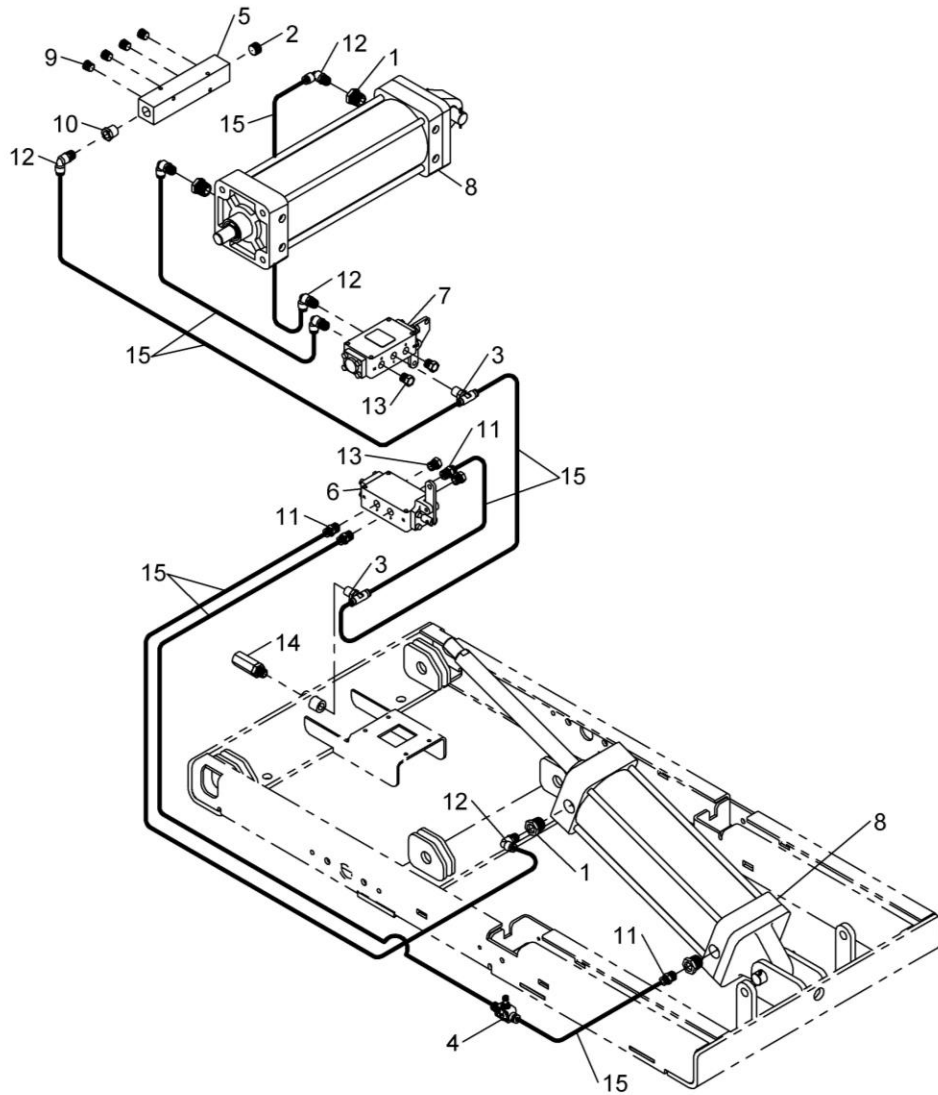
## SPREAD ASSEMBLY

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	03-0036	LINKAGE PIVOT	25	6	54-0057	HAIR PIN
2	2	03-0302	SPREAD HOOK	26	2	54-0061	3/4 PIN
3	2	03-0308	ADJUSTABLE POST	27	6	055-127	#10-24 NYLON LOCK NUT
4	1	03-0664	RIGHT SPREAD ARM	28	2	055-145	5/16-18 NYLON LOCK NUT
5	1	03-0665	LEFT SPREAD ARM	29	14	055-154	3/8-16 NYLON LOCK NUT
6	2	03-0666	EQUALIZER MOUNT	30	4	055-160	1/4-20 NYLON LOCK NUT
7	1	03-0667	TOOL TRAY	31	1	60-0233	MANIFOLD
8	1	40-0090	LED LIGHT	32	1	60-0372	SPREAD VALVE
9	2	11-0109	PULL KNOB	33	1	63-0037	4 X 10 AIR CYLINDER
10	4	11-0133	SPREAD ARM REST	34	2	71-0436	SPREAD LINKAGE
11	8	11-0134	SPREAD ARM SPACER	35	4	72-0494	HANDLE MOUNT
12	2	020-024	CAP	36	2	72-0495	HANDLE
13	2	028-021	3/8-16 X 1 SCREW	37	2	72-0496	LOWER LINKAGE
14	4	028-046	3/8-16 X 1-1/4 SCREW	38	2	72-0497	UPPER LINKAGE
15	4	028-305	#10-24 X 2 SCREW	39	2	73-1000	LOCK PIN
16	2	028-307	#10-24 X 1-3/4 SCREW	40	2	73-1202	ROLLER ROD
17	2	028-329	3/8-16 X 2 SCREW	41	2	74-0387	ROLLER TUBE
18	1	50-0027	3/8 X 1 SHOULDER SCREW	42	4	107-016	ROLLER BEARING
19	4	50-0125	1/4-20 X 5/8 SCREW	43	20	108-015	3/8 FLAT WASHER
20	4	50-0077	3/8-16 X 3/4 SCREW	44	4	108-141	3/8 FENDER WASHER
21	4	50-0207	3/8-16 X 3 CARRIAGE BOLT	45	2	110-065	SPRING
22	1	53-0038	ROD CLEVIS	46	1	028-012	5/16-18 X 3/4 SCREW
23	2	54-0034	1/2 X 3 PIN	47	2	108-123	5/16 FLAT WASHER
24	6	54-0056	1/4 X 3/4 PIN				



### LIFT ASSEMBLY

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	01-0278	BELL CRANK	25	5	055-127	#10-24 NYLON LOCK NUT
2	1	01-0279	INNER LIFT ARM	26	6	055-154	3/8-16 NYLON LOCK NUT
3	1	01-0280	OUTER LIFT ARM	27	5	055-160	1/4-20 NYLON LOCK NUT
4	2	01-0281	LIFT LINKAGE	28	2	59-0087	LANYARD
5	2	03-0306	FOOT PEDAL	29	1	60-0371	LIFT VALVE
6	8	11-0132	LIFT ROLLER	30	1	061-023	COTTER PIN
7	1	020-024	CAP	31	2	061-178	SPRING PIN
8	2	20-0039	FLANGE BEARING	32	1	63-0037	4 X 10 AIR CYLINDER
9	1	028-011	1/4-20 X 1-1/4 SCREW	33	1	71-0443	VALVE CLEVIS
10	4	028-021	3/8-16 X 1 SCREW	34	2	71-0455	RAMP LINKAGE
11	2	028-046	3/8-16 X 1-1/4 SCREW	35	2	71-0469	LIFT LOCK
12	4	028-133	3/8-16 X 3/4 SCREW	36	2	72-0086	FOOT GUARD
13	2	028-148	1/4 X 1/2 TAP SCREW	37	2	72-0497	UPPER LINKAGE
14	1	028-155	#10-24 X 5/8 SCREW	38	1	72-0585	RAMP
15	4	028-305	#10-24 X 2 SCREW	39	1	73-0734	FOOT VALVE ROD
16	4	50-0125	1/4-20 X 5/8 SCREW	40	2	73-0743	RAMP BRACKET
17	30	52-0062	SHIM SPACER	41	12	73-1198	LINKAGE PIN
18	1	53-0038	ROD CLEVIS	42	4	73-1199	ROLLER PIN
19	1	53-0039	ROUTING CLAMP	43	1	73-1200	RAMP LINKAGE ROD
20	32	54-0045	RETAINING RING	44	2	108-015	3/8 FLAT WASHER
21	2	54-0056	1/4 X 3/4 PIN	45	1	108-044	1/2 FLAT WASHER
22	2	54-0057	HAIR PIN	46	12	20-0066	SLEEVE BUSHING
23	2	54-0061	3/4 PIN	47	8	20-0067	FLANGED SLEEVE BUSHING
24	4	055-103	3/8-16 FLANGE NUT				



## PNEUMATICS

ITEM	QTY	PART NO.	DESCRIPTION
1	4	039-008	1/2 TO 1/4 REDUCER FITTING
2	1	60-0074	3/8 NPT PLUG
3	2	60-0164	1/4 NPT TO 1/4 TUBE TEE FITTING
4	1	60-0220	FLOW CONTROL
5	1	60-0233	MANIFOLD
6	1	60-0371	LIFT VALVE
7	1	60-0372	SPREAD VALVE
8	2	63-0037	4 X 10 AIR CYLINDER
9	4	096-004	1/4 NPT PLUG
10	1	096-039	3/8 TO 1/4 REDUCER FITTING
11	4	096-340	1/4 NPT TO 1/4 TUBE FITTING
12	6	096-342	1/4 ELBOW FITTING
13	4	885-035	BREATHER FITTING
14	1	932-001	IN-LINE FILTER
15	1	D20-007	1/4 AIR LINE

## COMMERCIAL WARRANTY

This product is warranted by BRANICK INDUSTRIES, INC. to the original user-owner against defective materials or workmanship for a period of one year from the date of shipment. During the warranty period, at the discretion of Branick management, if the product is found to be defective, it will be repaired or replaced without charge. For service, contact Branick (800-437-4394) to obtain an RMA. Any product shipped to Branick must have an RMA and proof of original shipment date. The repaired or replacement product will be returned with transportation charges prepaid by Branick.

This warranty does not cover defects in the product caused by ordinary wear and tear, abuse, misuse, overloading, accident (including shipping damage), improper maintenance, alteration, or any other cause not the result of defective materials or workmanship.

REPAIR OR REPLACEMENT IS THE EXCLUSIVE REMEDY FOR DEFECTIVE PRODUCT UNDER THIS WARRANTY. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANT ABILITY OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OF THIS PRODUCT. BRANICK INDUSTRIES, INC. SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES.

BRANICK INDUSTRIES, INC. reserves the right to make changes in the design or construction of our products without obligation to incorporate such changes in products already sold and without notice.

Service parts and regular repair service are available from authorized distributors of Branick products, or from:

BRANICK INDUSTRIES, INC.  
4245 Main Ave.  
Fargo, North Dakota 58103  
Toll Free: 800-437-4394



[www.branick.com](http://www.branick.com)