TTR15P TURN TABLE REEL

Operator's Manual Machine P/N: 61-00332-11

Revision History

REVISION NUMBER	DATE	COMMENTS
1	01/17/2025	Initial release

Puck Turn Table Reel

Your new Turn Table Reel has been designed and manufactured to provide many years of reliable service when used for the purpose for which it is intended, and with the correct and regular maintenance. Puck Turn Table Reels offer convenient, compact designs enabling you to easily transport the trailer.

This machine is warranted as stated later in this manual. Your dealer should register your Turn Table Reel with Puck, provide us your contact details, purchase information and serial number. The registration process activates your warranty and helps us assist you if you have any questions in the future.

If any part of this operating manual is lost or becomes unreadable, contact your dealer for a new set.

The serial number and identification tag are located on the front driver's side corner of the frame. Please refer to this number when communicating with your dealer or Puck.

Quality Policy Statement

Puck, LLC. strives to lead the industry we serve by creating innovative solutions with positive applications and effects through continuous improvement:

- **Teamwork** – We care about those we work with and those we serve. We strive to build trust-based relationships and establish win/win partnerships. Everyone plays an important role, but the whole team is vital to the overall success of Puck.
- **Innovation** – Change is the only constant. We don't just realize that we enthusiastically embrace and drive innovation. We challenge the norms and push boundaries. We are bold in what we do.
- **Enjoyment** – We want our team to find happiness in what they do. We get things done, we have a passion for what we do, and we are proud of what we accomplish. We want our team to want to be here for the long haul.

Quality Objectives

Puck's quality management system objectives are:

- 90% Customer Satisfaction
- 80% On-Time Delivery
- 5% ≥ Cost of Poor Quality (COPQ)

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TERMS & CONDITIONS

Warranty Manufacturer

Dealer or Distributor understands and agrees that the Manufacturer extends only the following Warranty to customers. In the event Dealer or Distributor extends any additional warranty (such as by enlarging the scope or period of warranty or undertaking a warranty of merchantability or fitness for any particular purpose) or any other obligation whatsoever, Dealer or Distributor shall: (1) be solely responsible therefore (2) have no recourse against Manufacturer thereof and (3) defend indemnify and hold Manufacturer harmless against any claim or cause of action whatsoever arising out of, or occasioned by, Dealer or Distributor's extension of said additional warrant or obligation.

Certificate of General Equipment Warranty

Puck warrants new Products sold by it to be free from defects in material or workmanship for a period of one (1) year after date of delivery to the first user and subject to the following conditions.

- Puck's obligation and liability under this Warranty is expressly limited to repairing or replacing at Puck option, any parts which appear to Puck upon inspection to have been defective in material or workmanship.
- Such parts shall be provided at no cost to user, at the business establishment of the authorized Puck dealer or distributor of the Product during regular working hours.
- This Warranty shall not apply to component parts or accessories of Products not manufactured by Puck and which carry the warranty of the original manufacturer thereof, or to normal wear and tear, or maintenance (such as tune-ups) or normal maintenance parts (such as oil filters).
- Replacement or repair parts installed in this Product covered by this Warranty are warranted only for the remainder of this Warranty as if such parts were original components of said Product.

No incidental or consequential damages may be asserted against Puck. Puck's liquidated damages in any situation may not exceed the retail price of the product or part.

Puck makes no other warranty, express or implied, and makes no warranty of merchantability or fitness for any particular purpose.

Puck's obligation under this Warranty shall not include any transportation charges, cost of installation, duty taxes or any other charges whatsoever, or any liability for direct, indirect, incidental or consequential damage or delay. If requested by Puck products or parts for which a warranty claim is made are to be returned transportation prepaid to Puck. Any improper use, including operation after discovery of defective or worn parts, operation beyond rated capacity, substitution or parts not approved by Puck company or any alteration or repair by others in such manner as in Puck company's judgment affects the Products materially and adversely, shall void this Warranty.

No employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of Puck at its home office.

Liability for Delays

No liability shall attach to Manufacturer direct, or indirect, incidental or consequential damages or expenses due to loss, damage, detention of delay in delivery of Products resulting from acts or delays beyond its control.

INTRODUCTION & SAFETY

Forward

This manual covers the operation of all models of the Puck TTR15P Turn Table Reel, and will be updated to remain current with new operations. Not all aspects of this manual may apply to your specific machine.

An Owner's Manual that provides operation and maintenance information cannot cover all of the specific details necessary for the proper combination of every piece of equipment manufactured by Puck. You must read, understand and follow the instructions given by all other manufacturers of included components as well as the instructions in this manual. Keep all manuals provided with your equipment in a safe place at all times.

Puck's equipment is built with components produced by various manufacturers. Some of these items have separate instruction manuals. Where this manual indicates that you should read another manual and you do not have that manual, contact your dealer or Puck for assistance.

Puck values continuous improvement in every aspect of business. With this, as equipment upgrades occur, necessary operator manual updates will be available to all customers. If you chose to utilize these upgrades, it is your responsibility to obtain, read, and understand the new manual.

Before You Begin

If not operated properly, any piece of equipment can be dangerous.

- The owner is solely responsible for the safe operation of this machine.
- Read all instructions, warnings, and cautions before using the machine.
- If any operator requires an additional manual, please contact your dealer for the appropriate version.

These instructions should be forwarded to all operators.

- Each operator must carefully read and follow all warning, safety signs and instructions provided in the manual(s) or located on the machine.
- Do not remove, deface, or make inoperable any of the safety devices or warnings on this machine.
- IF any of the safety devices or warnings have been removed, defaced, or made inoperable, DO NOT USE THIS MACHINE and contact your dealer as soon as possible for replacements and/or repairs.
- Continued use in the above situation could result in serious injury or death.

Decal Replacement

Safety signs or decals must be kept clean and readable. If they become unreadable for any reason, they must be replaced with an identical replacement decal. Safety decals must also be replaced if parts are repaired or replaced with new parts that do not already include the necessary safety decals.

Order replacement decals by part number through your nearest dealer. See the parts manual for decal part numbers.

Application of Safety Decals

Surface preparation is important for safety decals to properly adhere. Grease, oil and dirt must be removed and the surface must be smooth and dry. Most decals have a split backing which is meant to be removed from the split outward. To apply the decals, follow these procedures:

1. Position the decal in the proper location and hold firmly over the largest portion of backing.
2. Use one hand to hold the decal in position, with the other hand carefully roll the loose end over and peel the backing outward. When the backing is removed as described with even and gradual pulling, the decal will roll onto the surface smooth and wrinkle free.
3. With the smallest portion of the decal attached, the same procedure can be applied to the other half.

4. When the decal has been attached in place, use a cloth or soft paper towel to burnish the decal onto the cleaned surface. Work gently from the middle outwards to avoid creating any wrinkles.

Safety Signs

Read and understand this operator's manual and become familiar with all controls before operating machinery.

Never operate this equipment until operator fully understands the complete contents of this manual. It is the hose cart owner's fully responsibility to provide satisfactory safety and operation instructions to any user of this equipment.

Know Signal Words

DANGER: INDICATED AN IMMINENTLY HAZARDOUS SITUATION THAT, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.

WARNING: IDENTIFIES A POTENTIALLY HAZARDOUS SITUATION THAT, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.

CAUTION: IDENTIFIES A POTENTIALLY HAZARDOUS SITUATION THAT, IF NOT AVOIDED, MAY RESULT IN MINOR OR MODERATE INJURY.

Follow Safety Instructions

- Safety sign instructions must be read, understood and followed to be effective. Safety signs and decals provide important information and instructions that alert you of dangers and hazards that are or can be present during the operation of this equipment.
- Become familiar with all controls before operating machinery.
- If any part of this manual is unclear and you need assistance to properly operate the machine or understand this manual, please contact your dealer.

TTR15P-Specific Warnings

CAUTION: NEVER EXCEED 70 MPH.

- Never exceed manufacturer's speed rating as listed on tire sidewall.

WARNING : DO NOT OVERLOAD THE TURN TABLE REEL

- Do not put more hose on the cart than the maximum allowable payload capacity: 16,500 lbs (7,484.27 kg). Failure to follow this recommendation can lead to possible accidents, damage to hose or machine, injury, or death.

WARNING: DO NOT MISUSE THIS MACHINE.

- This machine is designed for the hose to be powered on/off via remote control or manual controls.

Transportation Safety

Local Laws

- You are responsible to follow federal, state and local laws at all times.
- Before operating this piece of equipment, you must understand and follow the laws in your location.
- When traveling on state and local roadways take the necessary steps and cautions to be safe.

Speed

- Only tow Puck machines using vehicles equipped with appropriate towing capacities.
- Prior to towing Puck machines, check your tow vehicle's manual for its Gross Vehicle Weight Rating (GVWR) to determine its ability to tow your machine.

SMV Sign

- Check local regulations, and if required, use a clean SMV emblem properly displayed on the rear of the machine when traveling on any public roadway. Keep the SMV emblem clean and replace if necessary. At night, proper

warning and running lights are necessary as required by state law.

Trailer Lights/Brake Connections

- Pay attention to pins provided on tow vehicle and Puck machine.

WARNING: DO NOT CONNECT A 7-PIN ROUND CONNECTOR TO A 7-PIN FLAT CONNECTOR.

DANGER: DO NOT USE ADAPTERS; BRAKE FAILURE WILL OCCUR. SERIOUS BODILY INJURY AND/OR SEVERE DAMAGE TO MACHINE MAY OCCUR.

Chains and Tie Downs (If Equipped)

- Always use a safety chain between the towing vehicle and machine on public roadways.
- Twist chain tight when securely fastening to flotation for added reinforcement.

Jack Feet and Handle

- Ensure jack feet are raised and the handle is stowed.

Use Safety Pins (If Equipped)

- Always make sure the safety pins are securely in locking position before moving the machine.
- Safety pins prevent the machine from becoming loose, spinning freely, or falling off when towing.
- These pins are designed to only be removed when powering hose off and on or while moving hose during application.
- Use securing pins on cylinder arm to reduce the risk of erratic movement when installing or testing equipment.

Hydraulics & Pressure Safety

WARNING: BE CAUTIOUS WHEN OPERATING HYDRAULIC EQUIPMENT.

WARNING: HYDRAULIC PRESSURE CAN BE VERY DANGEROUS AND CAN CAUSE SERIOUS PERSONAL INJURY AND DEATH.

- Be sure to relieve all pressure before disconnecting hydraulic lines.
- Hydraulic fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, not your hands, to search for leaks.

DANGER: IF INJURED BY ESCAPING HYDRAULIC FLUID, SEEK MEDICAL ATTENTION IMMEDIATELY. SERIOUS INFECTION OR REACTION MAY DEVELOP.

General Operating Safety

WARNING: TO AVOID RISK OF SEVERE INJURY OR DEATH, STAY CLEAR OF MACHINE WHEN IN OPERATION.

- Moving hose by menders and/or couplers could cause damage to hose and/or reel, serious injury, or death.
- Being struck with couplers could cause serious injury or death.
- When the machine is in motion or about to be operated, the operator must be inside the tow vehicle and any other people need to maintain a distance of at least 20 feet or outside of 20 feet if equipped with wireless remote.
- Entanglement in the rotating parts can cause serious injury or death. Stay away from all rotating parts when in motion.
- Make sure all persons are clear of the machine when testing hydraulic controls.
- Never wear loose clothing while working around moving parts.

WARNING: BE AWARE OF PINCH POINTS.

- Never go near the machine when operating.

- Keep all body parts away from pinch points (i.e. gates, boom, flotation devices, nozzles, etc.) to avoid serious injury.

WARNING: CLEAR AWAY ANY FOREIGN OBJECTS.

- Before use, make sure that the machine does not have any foreign objects or material in it that can cause equipment damage or personal injury.

WARNING: NEVER OPERATE WITHOUT GUARDS IN PLACE.

- Replace any damaged or missing guards before operating machine.

WARNING: DO NOT PARK ON AN INCLINE.

- Failure to park on a level surface could cause the machine to tip backward or sideways.
- Avoid serious injury or death by parking the machine on a stable, level surface.

WARNING: NEVER OPERATE ON STEEP SLOPES

- Never operate on steep slopes. Do not drive near the edge of a gully or steep embankment. Failure to heed this warning may result in the machine rolling over or losing balance, causing serious injury or death.

WARNING: EXERCISE CAUTION WHEN BACKING UP.

- Use another person to guide you when backing up the machine.

WARNING: DO NOT MISUSE MACHINE.

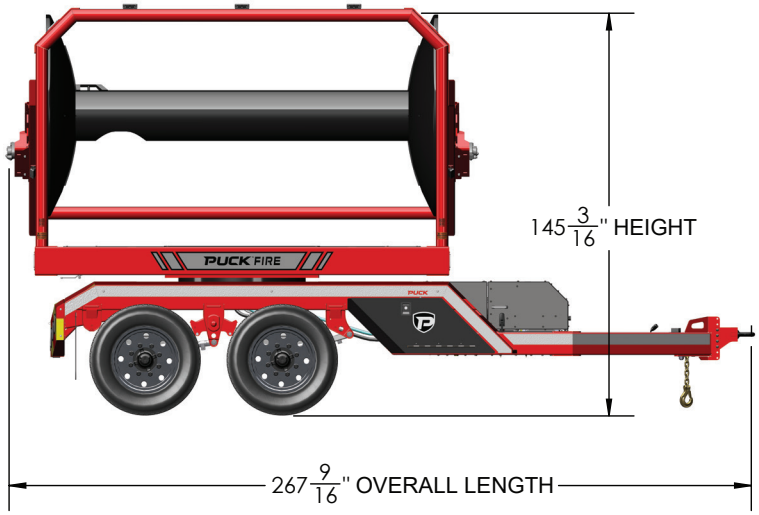
- Ensure hose is always reeled over top of the machine.
- NEVER free spool or engage/disengage hose by hand.
- DO NOT park on hose.
- Failure to heed these warnings can lead to possible accident, damage to hose/ machine, injury, or death.

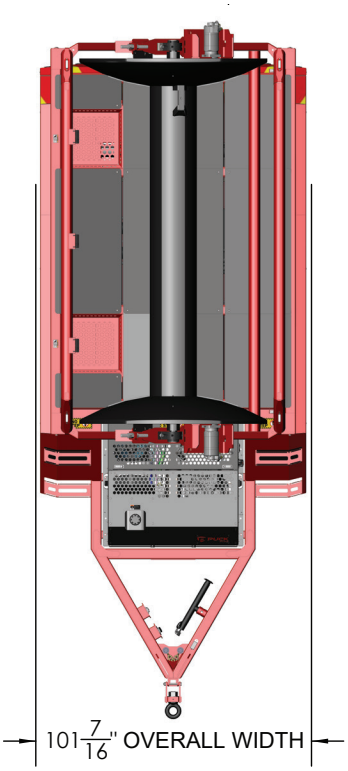
WARNING: DO NOT STAND BEHIND OR NEAR THE CART WHILE OPERATING.

- Before operating this equipment, make sure there are no people in or on this machine. Keep everyone away while operating this machine.
- Never operate this equipment if any part is damaged or missing.

TECHNICAL SPECIFICATIONS

General Specifications





SPECIFICATION	U.S.	METRIC
Hose capacity*	9,900 ft of 6 in layflat hose	3,017.5 m of 15.24 cm layflat hose
Dual hydraulic motor torque	Max of 7,350 ft-lbs	Max of 9,965.26 Nm
Trailer weight without hose and coupling	13,500 lbs	6,123.5 kg
Overall height	145 3⁄16 in	368.78 cm
Overall width	101 7⁄16 in	257.65 cm
Overall length	267 9⁄16 in	679.61 cm
Ground clearance	19 in	48.26 cm
Gross vehicle weight rating (GVWR)	30,000 lbs	13,607.77 kg
Gross axle weight rating (GAWR)	40,000 lbs	18,143.7 kg
Payload	16,500 lbs	7,484.27 kg
Curb weight	13,500 lbs	6,123.5 kg
Max tire inflation	Listed by manufacturer on sidewall of tire	
*Based on 660 ft sections and wrapping efficiency		

For reference on the breakdown of parts, see the corresponding TTR15P parts catalog.

OPERATING INFORMATION

Attaching Turn Table Reel to the Tow Vehicle

Safety

CAUTION: PAY ATTENTION TO THE FOLLOWING SAFETY ITEMS TO AVOID RISK OF EQUIPMENT DAMAGE OR INJURY.

Vehicle performance (braking, handling, acceleration, turning radius) can be drastically affected by towing a trailer. Allow additional time / space for stopping, changing lanes, passing and turning.

Do not tow more than one trailer at a time.

Severe bumps can damage your towing system. Avoid or drive slowly over rough terrain.

Do not damage the latch. Be particularly careful with the drawbar when coupling and uncoupling.

Other steps and inspections are also required. Consult D.O.T. regulations and American Trucking Association for complete towing procedures.

Preparation

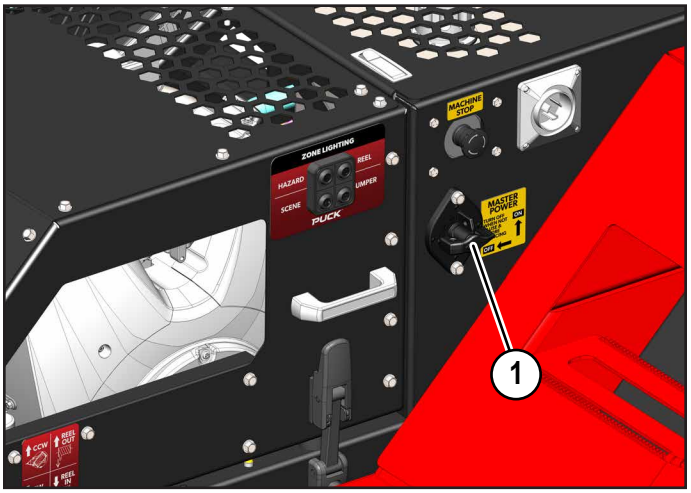
1. Ensure compatibility.
   - Confirm that the pintle hitch and lunette ring are compatible in size and weight capacity with the vehicle and trailer.
2. Inspect components.
   - Check the pintle hitch, lunette ring, safety chains, and electrical connectors for any visible wear or damage.
   - Ensure all fasteners are tight and that all structural components are sound.
   - Clean and lubricate moving parts regularly to ensure proper function.
   - Never tow with worn or damaged parts.
3. Position the trailer.
   - Place the trailer on level ground and ensure it is stationary. If needed, chock the wheels to prevent movement.

Procedure

1. Align the vehicle and trailer.
   - Slowly back the vehicle toward the trailer, aligning the hitch with the lunette ring.
2. Lower the lunette ring onto the pintle hook.
   - Adjust the height of the trailer tongue to position the lunette ring slightly above the pintle hook.
   - Lower the trailer tongue carefully to set the lunette ring onto the pintle hook.
3. Secure the latch.
   - Close the pintle hitch latch over the lunette ring.
   - Lock the latch securely with a hitch pin or lock to prevent accidental disengagement.
4. Attach safety chains.
   - Cross the safety chains under the trailer tongue and attach them to the vehicle's designated attachment points.
   - Ensure the chains have enough slack for turns but are not dragging on the ground.
5. Connect electrical components.
   - Plug in the trailer's electrical connector to the vehicle's outlet.
   - Test the trailer's lights (brake lights, turn signals, and running lights) to ensure they are functioning correctly.
6. Complete final inspection.
   - Double-check that the pintle hitch latch is locked, safety chains are secured, and all connections are in place.
   - Perform a brief test by driving forward slowly and braking to confirm that the connection is secure.
7. Complete detachment procedure.
   - Park on a level surface.
   - Disconnect the electrical connector, then remove safety chains.
   - Release the hitch latch, lift the trailer tongue, and move the vehicle away carefully.

On-Board Power Unit Operation

1. Ensure engine oil level is within operational range. Reference maintenance section on page 20 for details.
2. Ensure hydraulic oil level is within operational range. Reference maintenance section on page 20 for details.
3. Disengage master power disconnect switch (callout #1) to the “ON” position.



4. Ensure machine stop knob (callout #2) is disengaged by rotating the knob in the release direction (clockwise).

5. Utilize key-switch on engine (callout #3) to start the on-board power unit. The machine will auto throttle to a preset.

6. Engage desired lighting functions from the lighting control keypad by single pressing and releasing the desired lighting function button.
   - Reference the lighting function section on page 14 for more information.

WARNING: BEFORE OPERATING YOUR REEL, BE SURE ALL PEOPLE AND OBJECTS ARE CLEAR OF THE MACHINE.

7. Stow the jack, remove any storage/transport pins, etc.
8. To shut down the on-board power unit, turn off the key switch, and engage the master power disconnect switch to the “OFF” position.

Emergency Machine Stop Procedure

Operators shall familiarize themselves with the emergency shut down procedure of the machine with the following steps.

Emergency Shut Down Procedure

1. Locate the machine stop button. To activate the machine stop, simply depress the button at any time. This disconnects all power to the machine and disables all operations.
2. OPTIONAL: If the operator desires, in addition to the machine stop, they may actuate the master power disconnect to the “OFF” position, as well as turn off the key to the engine. These steps are not required or necessary to shut the machine down in an emergency situation.

Restart Procedure

1. Locate the machine stop button. Ensure the machine stop is disengaged by rotating the knob in the release direction (clockwise).
2. Engage master power disconnect switch to the “ON” position.
3. Utilize key-switch on engine to re-start the power unit.

Hose Deployment Procedure

1. Prepare to deploy the hose by unrolling enough hose, approximately 2 ft to unhook hose from keeper baskets on the floor pan of TTR15P.
2. Unhook the hose containment straps and remove hose coupler from containment basket.
3. When deploying from the rear of the TTR15P, rotate the reel until perpendicular to direction of deployment travel.
4. Unroll additional hose to place hose/coupler on the ground.
5. Place the tow vehicle in low gear and drive forward at approximately 2-3 mph while another person (if available) engages the hose reel to deploy hose while tow vehicle is in motion.
6. Attempt to lay the hose out in a straight line or gradual curves if necessary. This will prevent the hose from twisting and kinking when filled.
7. When reaching the end of the hose load, untie the coupler from the leader line.
8. Rotate the reel top to transport position.

Hose Retrieval Procedure

1. Prior to rolling up hose, make sure hose is cleaned out properly.
2. Rotate the reel top into position, perpendicular to the hose lay on the ground to be retrieved.
3. Prepare to retrieve hose by attaching the leader line to the first hose coupler.
4. Reel in leader line and hose/coupler until enough slack is achieved to insert approximately 12-18 inches of hose into the cutout on the spindle of the reel.
5. Achieve one completed revolution of the reel to ensure the hose is secured to the hose reel and to decrease the possibility of stress on the first coupler.
6. Once you have made one complete revolution, utilize the onboard power of the TTR15P to reel in hose lay. Articulate the cart to one side, causing the hose to overlap approximately 1/3 of the previous revolution of hose.
   - The goal is to level wind the hose, using the reel top rotation to fill the reel completely from side to side.
7. Fill each layer completely out to the dome every time. This will prevent future layers from slipping between the hose and the dome and lodging.
8. Continue to walk the hose back and forth on the cart as evenly as possible.
9. When you approach a coupler, stop the reeling process and prepare to back up. Backing up as the couplers come on the cart prevent the hose from being excessively tight at the coupler and digging into the hose around it. Continue to back up to keep hose loose until there is a complete revolution past the coupler.
10. Do not roll hose directly over a coupler. Build up hose on each side until the coupler does not protrude out from the mass of hose before rolling over the coupler. This will prevent damage to the hose as it rolls over the coupler.
11. Stagger couplers to different locations on the cart to prevent one portion of the cart from filling up as more hoses are loaded on the cart.
12. The hose must be pulled onto the cart in a straight line, or it will roll over on itself and become entangled.
    - If hose is not in a straight line, roll a small amount of hose on the cart, then turn around and drive back alongside the hose to where it begins to be straight. Then turn around again and drive to where the entire length of hose will be in a straight line. You will always save

yourself time by straightening out your hose before you roll.

13. If there become kinks or twists in the hose as you roll, air will be trapped in the hose, causing it to roll on the cart and not lay flat due to inflation.

    - If this occurs, position yourself in an open, straight area where there is ample space. Lay the hose on the ground and drive in a straight line, pulling the hose behind you. This process will gradually work out any twists. If you reach the end of the area before all the twists are removed, turn around and pull the hose back in the opposite direction next to the hose already on the ground.

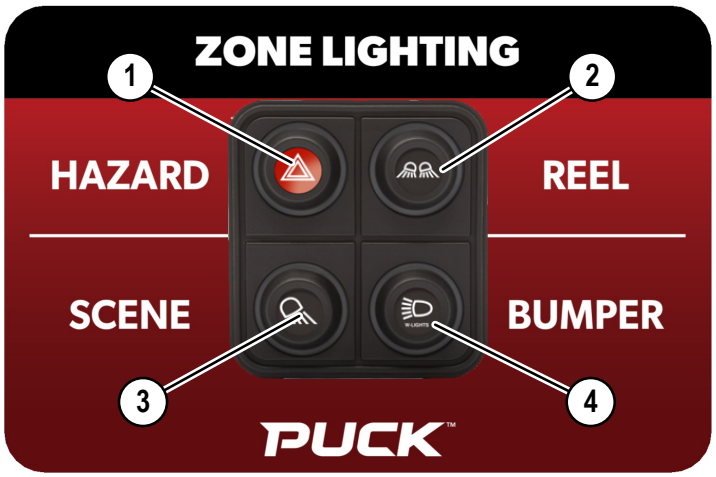
14. As your final coupler approaches the cart, slow down the engine speed and slowly raise it off the ground.

WARNING: ROLLING YOUR FINAL COUPLER ONTO THE CART AT HIGH SPEED CAN CAUSE IT TO FLY OVER THE TOP OF THE REEL AND STRIKE THE TOW VEHICLE OR OPERATORS.

15. To hook up the hose on the ground to the hose on the cart, roll off some hose and hook the couplers together before following the directions above.

16. Once all hose has been retrieved, place the final coupler in containment basket and secure with containment securement straps.

Lighting Control Keypad



CALLOUT	DESCRIPTION
1	Keypad button 1 toggles the Hazard lights on and off.
2	Keypad button 2 toggles the Top lights on and off.
3	Keypad button 3 toggles the Upper Rear lights on and off
4	Keypad button 4 toggles the Lower Rear lights on and off

The following items describe the keypad functions:

- Keypad button backlight color is **white** when the associated function is inactive.
- Keypad button backlight color is **green** when associated function is active.
- Hydraulic fault conditions are indicated by blink codes using the keypad button backlights.
- All keypad button backlight colors toggle between **red** and the color indicating their current state when a hydraulic fault condition is present
- Button 2 blinks indicate hydraulic temperature over 190 degrees Fahrenheit.
- Button 3 blinks indicate hydraulic level is below 30%.
- Button 4 blinks indicate load sense pressure input not responding to hydraulic outputs.
- Fault indication blink codes are emitted once per second.

Transporting Turn Table Reel

CAUTION: NEVER TRAVEL AT SPEEDS THAT EXCEED THE TIRE MANUFACTURER'S SPEED RATING LISTED ON THE SIDEWALL OF THE TIRE. THIS COULD MAKE THE MACHINE UNSTABLE AND POTENTIALLY ROLL.

Adhere to the following when transporting the turn table reel:

- Check that the tire pressure is correct before moving the turn table reel.
- Ensure tires are adjusted to manufacturer’s recommendations before transporting the turn table reel.
- Always make sure the end of the hose is secured to avoid injury or damage to the coupler.
- Check that all hydraulic hoses are secured and will not drag.
- Secure safety chains and check all safety pins.
- Never pull more than one machine at a time.
- Be sure to check tow vehicles’ manual for its Gross Vehicle Weight Rating (GVWR) and Gross Combination Weight Rating (GCWR) to ensure its ability to transport cart PRIOR to transporting.
- Always use a tow vehicle with safely rated towing capacities before transporting cart.

TOW SYSTEM OPTIONS

Description

Puck offers multiple towing hitch system options for your machine. This section shows tow hitches currently provided as options for use with your Puck machine.

Important: ALWAYS check weight ratings printed on the hitch system in use.

All towing hitch systems MUST BE inspected prior to use. Be mindful of and respect the tow rating specifications printed on your hitch, located in your hitch manual, and your state and local laws.

Upon inspection, if evidence of wear, such as flat spots, deformations, pitting or corrosion on the towing hitch are felt or seen, immediately discontinue use to prevent possible failure of towing system.

All bent, broken, or otherwise deformed towing hitches MUST BE replaced before towing the machine. When replacing the towing hitch, the load rating must match or exceed the GVWR of the machine.

CAUTION: GROSS VEHICLE WEIGHT SHOULD NEVER EXCEED THE TOW VEHICLE'S GROSS COMBINED WEIGHT RATING.

If you experience any issues with the hitch and/or towing system or need replacement parts/towing system(s), contact Puck for assistance.

Definitions

To ensure clarity regarding these towing restrictions, please refer to the following definitions:

- Gross Vehicle Weight (GVW) – weight of the fully loaded vehicle including all cargo.
- Gross Vehicle Weight Rating (GVWR) – value specified by manufacturer as loaded weight of a single vehicle.
- Gross Trailer Weight Rating (GTWR) – weight of trailer/machine plus all cargo loaded when in actual towing condition.
- Gross Combined Weight Rating (GCWR) – maximum weight a vehicle can safely carry when towing a trailer, including the weight of the vehicle, passengers, cargo, and trailer.
- Vertical Load Rating (VLR) – vertical downward static force exerted on hitch by the coupling at point of connection, with weight distribution features (if applicable) deactivated.

Hitch Maintenance

Ensure GVWR is compatible with machine.

Check for cracks, pits, flats, wear, and damage on entire towing system.

Coat ball with thin layer of automotive bearing grease to reduce wear and ensure proper operation.

Check locking device that secures pintle (or receiver) to ball (or ring).

If applicable, oil pivot points, sliding surfaces, and spring ends with SAE 30W motor oil.

Keep all parts of system clean. Dirt or contamination can prevent proper operation of system.

Options

Pintle Hitch System

Ensure that tow vehicle and hitch are compatible and rated for the loaded weight of the Turn Table Reel.

Pintle hitch systems provide secure coupling to pintle hooks via a two-stage locking mechanism making this hitch system desirable for use in rough terrain situations. Figures below show each portion of a pintle hitch system on your machine and tow vehicle respectively.

Pintle Ring (On Machine)

Pintle Hitch (On Tow Vehicle)

TRAILER LIGHT & BRAKE CONNECTIONS

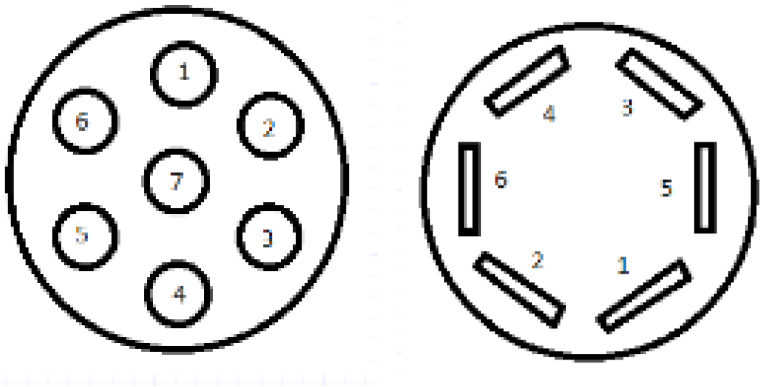
Pin Connectors

WARNING: PAY ATTENTION TO PINS PROVIDED ON TOW VEHICLE AND PUCK MACHINE.

WARNING: DO NOT CONNECT A 7-PIN ROUND CONNECTOR TO A 7-PIN FLAT CONNECTOR.

DANGER: DO NOT USE ADAPTERS; BRAKE FAILURE WILL OCCUR. SERIOUS BODILY INJURY AND/OR SEVERE DAMAGE TO MACHINE MAY OCCUR.

NEVER combine a 7-pin round and 7-pin flat connector (see the images below). The operation of these are not interchangeable and will cause equipment malfunctions leading to potential bodily, tow vehicle, and/or machine damage.



7-Pin Round Connector & 7-Pin Flat Connector

Always perform a walk around inspection of tow vehicle, machine, and all connections PRIOR to transportation. In the event of incompatible pin connectors, contact Puck immediately.

CAUTION: DO NOT PROCEED WITH TRANSPORTATION OF MACHINE UNTIL THE PROPER CONNECTORS ARE AVAILABLE.

MAINTENANCE

WARNING: NEVER PERFORM MAINTENANCE WHILE IN OPERATION.

WARNING: NEVER LUBRICATE, ADJUST, OR REPAIR MACHINE WHILE IT IS IN OPERATION. THE MACHINE MUST BE SHUT OFF AND ALL MOVEMENT STOPPED AND THE MASTER SWITCH IN THE OFF POSITION.

WARNING: THE GATES, OUTRIGGERS, AND BOOM CAN CAUSE SERIOUS INJURY OR DEATH!

WARNING: BE SURE TO SHUT OFF AND RELEASE PRESSURE BEFORE UNHOOKING ANY HOSES, CONNECTIONS, OR FITTINGS. FAILURE TO DO SO COULD CAUSE INJURY.

Check Before Each Use

Before Each Use	
Action	**Comments (date, replaced parts, etc.)**
Check the tire pressure of each wheel. Adjust the pressure to the tire's recommended level psi.	
Check the hydraulic lines and couplings to make sure they are in satisfactory working condition.	
Check oil level in on-board power unit engine. Re-fill as necessary.	
Check hydraulic oil level in on-board power unit reservoir. Re-fill as necessary. See image on page 26 for reference.	
Check fuel level in on-board power unit gasoline fuel tank. Re-fill as necessary.	
Check the reel rotation chain for tension. Adjust as necessary. (Only adjust when cart is empty.)	
Check towing hitch for cracks, pits, and flats and ensure GVWR is appropriate to tow vehicle and machine combination in use.	
Check safety chains/hooks for wear and damage and replace when necessary.	

Lubrication

Routine lubrication is essential to maintain optimal machine performance, reduce wear, and extend the lifespan of components. Lubrication tasks are scheduled at daily, weekly, monthly, quarterly, and annual intervals, with longer intervals including all tasks from shorter ones.

A lubrication check chart tracks completed tasks and identifies potential issues. Proper lubrication frequency may need adjustment based on operating conditions, such as heavy loads or harsh environments.

When lubricating components with engines, always follow the engine manufacturer's lubrication guidelines, as they take precedence over general maintenance instructions.

- Avoid excessive pressure when applying grease as this can lead to damage of the bearing seals.
- Lubricate all fittings using a high-quality lithium soap base E.P. grease meeting N.L.G.I. #2 specifications and containing no more than 1% Molybdenum Disulphide (examples include Shell Super Duty or equivalent).

Maintenance & Lubrication

Daily (8 hours)	Weekly (40 hours)	Monthly (160 hours)	Quarterly (250 hours)	Annual (1000 hours)	No.	Description	Quantity	Lubricant
	Lubricate				1	Reel top turntable bearing	As required	Multi-purpose grease
	Lubricate				2	Reel bearings (See image on page 25 for reference.)	As required	Multi-purpose grease
Check				Change filter	3	Hydraulic reservoir (See image on page 26 for reference.)	HO - Keep oil between marks on sight glass indicator tube	
*	*	*	*	*	4	Engine	*See engine manufacturer specs	

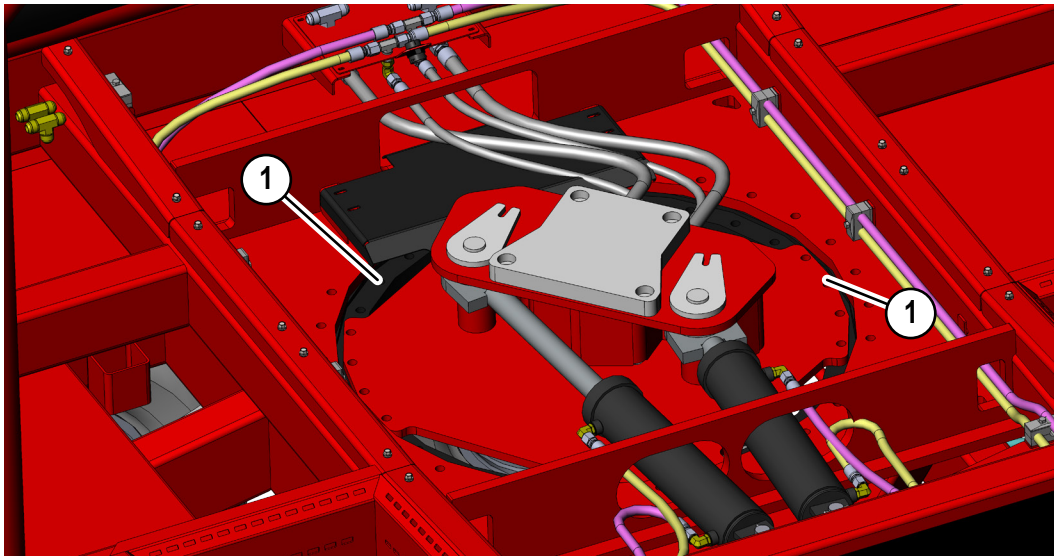
Operator Observation

As the operator, it is your responsibility to observe and report any unusual sounds, odors, or other signs of abnormal performance that could indicate trouble ahead. On a routine basis the following items should be checked before starting or while operating the machine.

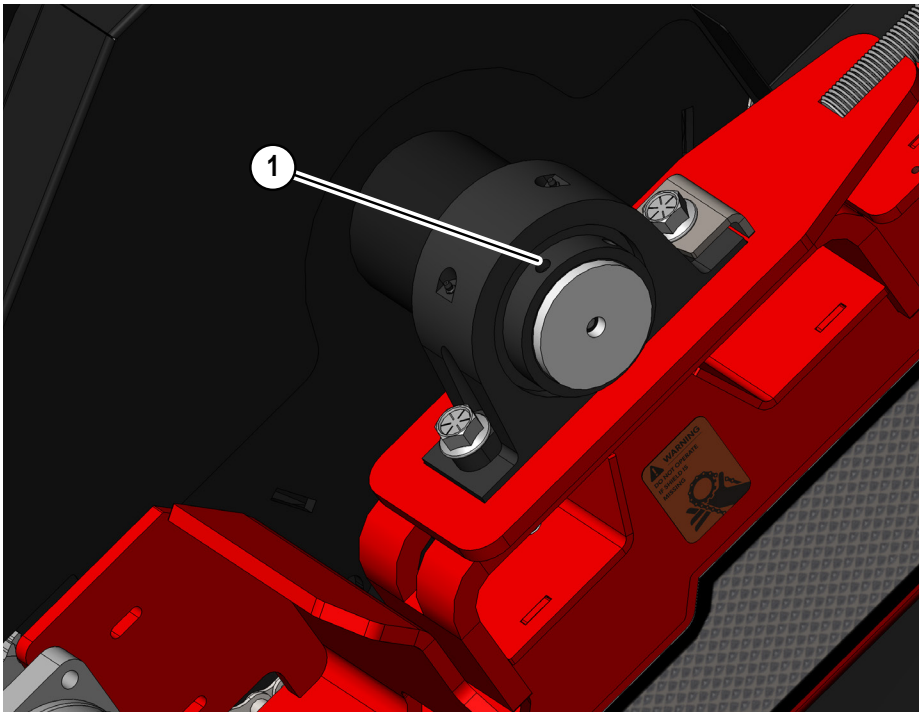
- Visual inspection: Check complete machine for any unusual condition.
- Check for any leaks or damage to the hydraulic system.
- Check control operation
- Check that all lights work properly
- Check for cleanliness: Free from mud and debris.
- Check in the engine compartment:
  - Oil level
  - Hydraulic oil level
  - Air cleaner sight gauge
  - Air intake

Initial Inspection

One Week or Initial 20 Hours of Use	
Action	**Comments (date, replaced parts, etc.)**
Check tire pressure and adjust to manufacturer's recommended pressure located on the sidewall of the tire	
Check hydraulic reservoir fluid level, see image on page 26 for reference	
Fill fuel tank	
Check engine oil level	
Check hydraulic system for leaks	
Check hydraulic reel drive bypass ball valve position	
Check hydraulic components including hoses	
Check hydraulic cylinders, mounting bushings, and pins	
Check controls	
Check instruments, gauges, lights, and safety equipment	
Make overall visual inspection	
Grease all fittings including reel bearings and slew bearings	
Check and adjust the fluid level in the axle hubs if required from the manufacturer's specifications	
Torque all slew bearing bolts in the specified pattern listed in the image on page 25 to 380 ± 36 lb-ft	
Torque all reel bearing bolts to specified torque in torque table on page 28	
Torque all wheel nuts 450 ft-lbs	
*Avoid excessive pressure when applying grease as this can lead to damage of the bearing seals.	



CALLOUT	DESCRIPTION
1	Slewing bearing bolts to be torqued



CALLOUT	DESCRIPTION
1	Reel bearing grease zerk

CALLOUT	DESCRIPTION
1	Hydraulic fluid level

Turn Table Reel Maintenance Schedule

Daily Check or Every 8 Hours	
Action	**Comments (date, replaced parts, etc.)**
Check tire pressure and adjust to manufacturer's recommended pressure located on the sidewall of the tire	
Check hydraulic reservoir fluid level. See the image on page 26 for reference	
Fill fuel tank	
Check engine oil level	
Check hydraulic system for leaks	
Check hydraulic reel drive bypass ball valve position	
Check hydraulic components including hoses	
Check hydraulic cylinders, mounting bushings, and pins	
Check controls	
Check instruments, gauges, lights, and safety equipment	
Make overall visual inspection	

Weekly Check or Every 40 Hours	
Action	**Comments (date, replaced parts, etc.)**
Perform daily check	
Perform weekly lubrication. See table on page 22	
Check and lubricate drive motor chain tension and adjust if necessary	
Check battery condition	
Check tire pressure and condition	
Check torque on wheel lug nuts	
Check hydraulic cylinders and rods	
Visually inspect all structural members and welds for cracks, alignment and wear	
Check engine manufacturer's manual for additional maintenance requirements	
Clean machine weekly if salt-covered to prevent rust and corrosion	

Monthly Check or Every 160 Hours	
Action	**Comments (date, replaced parts, etc.)**
Perform daily and weekly checks	
Perform monthly lubrication. See table on page 22	
Check wheel nut torque specifications	
Check engine manufacturer's manual for additional maintenance requirements	

Quarterly Check or Every 250 Hours	
Action	**Comments (date, replaced parts, etc.)**
Perform daily, weekly, and monthly checks	
Perform quarterly lubrication. See table on page 22	
Lubricate jack mechanism	
Drain fuel tank of water and sediment if necessary	
Check brake shoes for wear condition	
Check engine manufacturer's manual for additional maintenance requirements	
Clean and wax all exterior painted surfaces	

Annual Check or Every 1000 Hours	
Action	**Comments (date, replaced parts, etc.)**
Perform daily, weekly, monthly, and quarterly checks	
Perform annual lubrication. See table on page 22	
Drain and clean hydraulic reservoir	
Change hydraulic return line filters	
Clean hydraulic reservoir intake suction filter	
Change hydraulic fluid (unless checked by oil analysis).	
Maintenance axles per manufacturers requirements	
Torque reel slewing bearing bolts. See image on page 25 for reference.	
Check engine manufacturer's manual for additional maintenance requirements	

Bolt Torque Chart

Bolt Size	Grade 5 (Dry ft-lbs)	Grade 5 (Lubricated ft-lbs)	Grade 8 (Dry ft-lbs)	Grade 8 (Lubricated ft-lbs)	Stainless Steel (Dry ft-lbs)	Stainless Steel (Lubricated ft-lbs)
1/4"	8	6	12	9	7	5
5/16"	17	13	25	19	13	10
3/8"	30	23	45	34	23	18
7/16"	50	38	70	53	33	25
1/2"	75	57	110	83	43	32
9/16"	110	83	160	120	57	43
5/8"	150	113	225	170	83	62
3/4"	260	195	375	281	125	94
7/8"	430	323	605	454	150	113
1"	640	480	900	675	220	165
1-1/8"	790	593	1280	960	300	225
1-1/4"	1120	840	1820	1365	430	323
Ensure torque wrenches are properly calibrated before use to achieve accurate results. Stainless steel bolts are more prone to galling; use anti-seize lubricant to prevent thread damage.						

Puck

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