

MODEL 825TKL TRACK LOADER

HYDRAULIC TRACK LOADER OWNER'S MANUAL – ORIGINAL INSTRUCTIONS

CONGRATULATIONS!

You are now the proud owner of the BARRETO Track Loader. The OPERATOR'S MANUAL is attached to the machine. Please study it and this manual to become familiar with the Track Loader, its characteristics, and method of operation. Pay particular attention to the safety and operating instructions to prevent personal injury or equipment damage.

If you have any questions or need any replacement parts in the future, please contact us at your convenience. Our toll-free phone number, fax and email are listed below.

THANK YOU for your patronage and confidence in BARRETO equipment.

Barreto Manufacturing, Inc. Innovative Equipment Engineered to Last 66498 Hwy 203, La Grande, OR 97850 (800) 525-7348 (541) 963-7348 FAX (541) 963-6755

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U.S. Patent No. 10,260,567

Machine Identification Record

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TRACK LOADER INSTRUCTIONS UPON DELIVERY

Upon delivery, check for freight damage and any missing items. If there is damage, notify the carrier and Barreto Manufacturing immediately **and make sure to document there was damage on the delivery receipt.** Please take pictures of any damage immediately if possible before unpacking crate. Remove machine from shipping crate.

When documentation refers to "right side" or "left side", it is relative to the operator's position with both hands on the controls.

SERVICE INFORMATION

HYDRAULIC SYSTEM:

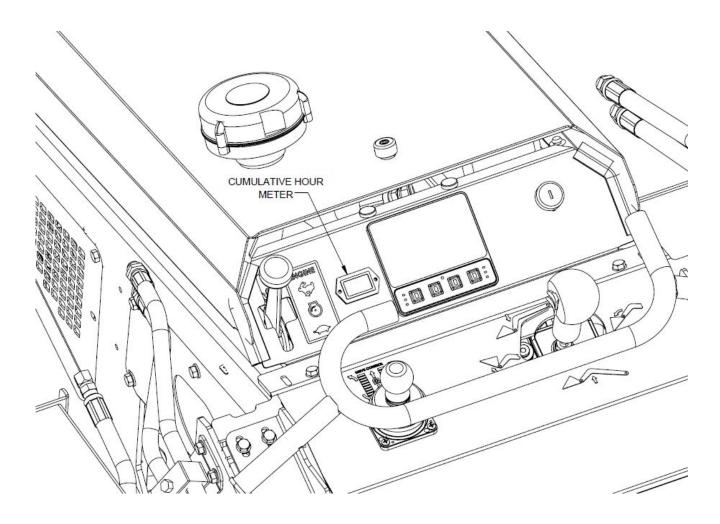
- Your Track Loader should arrive with approximately 11 U.S. gallons (41 liters) of tractor transmission / hydraulic fluid in the tank. Shipping regulations may prohibit shipping with the hydraulic fluid. Check the reservoir level using the sight gauge located at the back of the machine above the standing platform. If required, add tractor transmission / hydraulic fluid to the reservoir. For machine use in ambient temperatures between +32°F (0°C) and +90°F (32°C) hydraulic fluid ISO 68 is recommended. If the machine is operated at temperatures below +32°F (0°C) then hydraulic fluid ISO 46 is recommended.
- Recheck oil level after Track Loader has been run and oil has circulated through the components. Routinely check level thereafter.
- Change hydraulic fluid filters after the first 50 hours of use. Change it every 200 hours thereafter.
- There are two hydraulic filters, one by the operator platform and one at the front of the unit by the hydrostats. See page 11 for details.
- Add approximately one quart (1 liter) of hydraulic fluid to reservoir with each filter changed.
- Discard the old filter according to environmental standards in your geographic area.
- Check all hydraulic fittings for leaks and tighten if necessary.

WARNING - Running the Track Loader without hydraulic fluid will cause serious damage to the hydraulic pump. INSURE THAT THE RESERVOIR FLUID LEVEL IS VISIBLE IN THE SIGHT GAUGE BEFORE STARTING THE MACHINE.

<u>IMPORTANT</u> - The engine on the Barreto Track Loader may or may not have been serviced prior to shipping. Shipping regulations may prohibit shipping with fuel or oil in the engine. Check levels and add oil and fuel as required before starting engine. Service the engine according to the engine owner's manual before starting.

HOUR METER

The 825TKL features two ways of checking the machine's hours. The first is a physical, cumulative hour meter which tracks the total amount of hours the engine has been running. The second hour meter is built into the digital display which also tracks the hours running. The physical hour meter allows the owner to easily check total hours without turning the machine on.



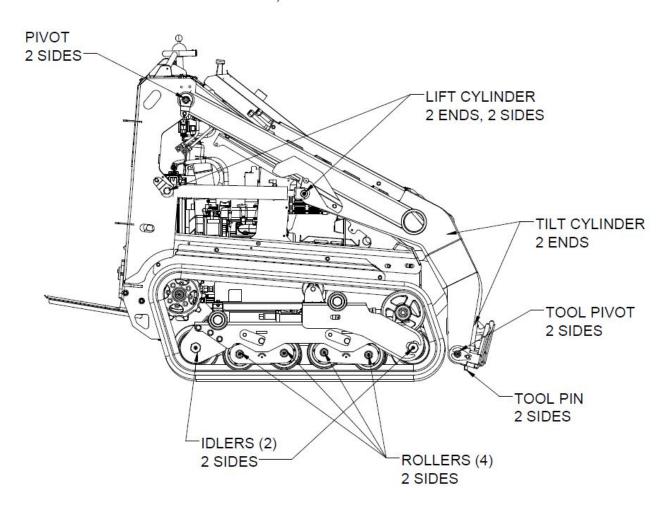
TRACK LOADER INTENDED USE

This Track Loader is designed to attach to industry-standard tools and implements for light and medium duty construction and landscaping work.

LUBRICATION REQUIREMENTS

Grease at the intervals indicated per the illustration of grease lubrication points. There is also a grease diagram decal on the machine.

GREASE POINTS, EVERY 10 HOURS OPERATION



OPERATOR TRAINING

Rental companies should demonstrate all the machine operations to each rental customer including:

- Starting up the engine.
- Loading the Track Loader onto the trailer and securing it for road transport.
- Unloading the Track Loader from the trailer.

WARRANTY OF BARRETO MANUFACTURING EQUIPMENT

Barreto Manufacturing, Inc. warrants all **BARRETO** equipment to be free of defects in material and workmanship for a period of one (1) year. All **BARRETO** fuel components, fuel tank, cap, lines & fittings are warranted for two (2) years. Warranty period begins on date of delivery to the original user.

This warranty is in lieu of all other warranties, whether written or implied, and is limited to:

- 1. Replacement of parts returned to the dealer and/or factory and determined defective upon inspection. (Replacement for parts to dealers shall be at dealer cost plus shipping charges.)
- 2. Time for pick-up and/or delivery, transportation of service calls by dealers is excluded. Manufacturer reserves the right to determine reasonable time required for repair.

Warranty does not apply to damage caused by abuse or neglect. Time and materials required for normal maintenance and service are also excluded from warranty coverage.

Engines, engine attached fuel tanks, engine accessories, batteries and tracks are warranted by the original manufacturer and are not covered by the Barreto Equipment Warranty.

Wear parts such as sprockets, track rollers, bearings, bushings etc. are excluded unless it can be determined that a defect has contributed to premature wear.

MAINTENANCE PREPARATION

Only trained & qualified personnel should perform maintenance or repairs of the Track Loader. Before performing any service, maintenance, adjustments, repairs, or off-season long-term storage, follow the SHUT DOWN PROCEDURE in the OPERATOR'S MANUAL.

Do not touch the engine, muffler, or any of the hydraulic components until cool.

WARNING: Muffler and engine get hot enough to cause serious burns. For the safety of yourself and others, allow enough time for the engine, muffler, and the hydraulic fluid to cool completely before performing any cleaning or maintenance.

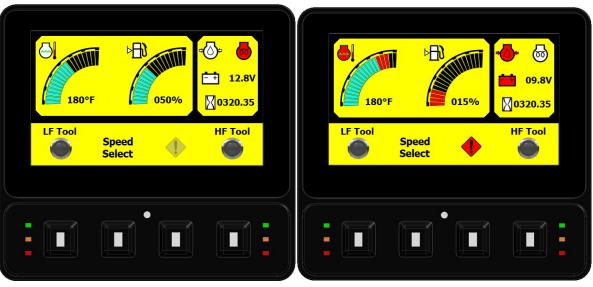


Avoid contact with hydraulic fluid.

WARNING: When machine is operating, hydraulic fluid is under extreme pressure and can get under skin and burn or poison.

Read the BATTERY & ELECTRIC STARTER SAFETY INSTRUCTIONS. Disconnect the battery, removing the negative terminal first by loosening the wing nut where the cable end is secured to a post on the Track Loader frame. When ready to reattach the cables, reconnect the positive terminal first.

DISPLAY PANEL FEATURES



The display panel shows important information or warnings regarding the machine and engine operation. The display panel also contains several buttons that will need to be used for the auxiliary tools to be enabled. Normal operational information will be displayed in Blue, while warnings will be displayed in Red.

SPEED SELECTION

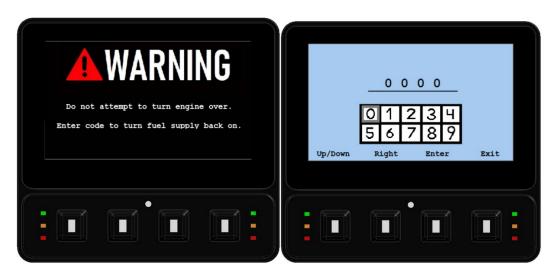
The track drive speed can be selected from the display to allow better control in tight spaces or while using attachments. To select the operating speed of the track drive, press the "Speed Select" button on the display, then press the button again to cycle through the speed drive options.



TIP-OVER PROTECTION

In the event of a Tip-Over situation, the machine's incline sensor will shut off the fuel pump and kill the engine. The operator will see the following images on the screen. The operator will need to call the rental center the machine came from and get Tip-Over code from the owner.

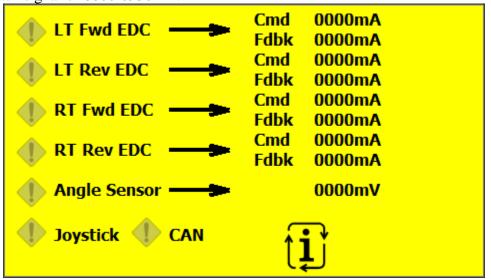
The Tip-Over code is 1984



DIAGNOSTICS

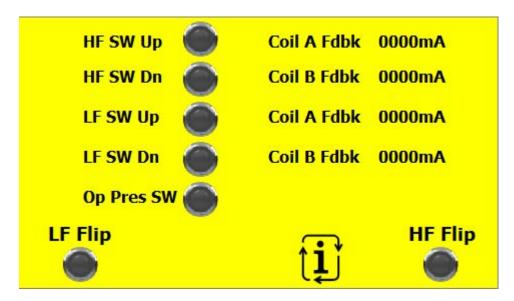
To access the system diagnostics and settings pages, go to the home screen, then press the third button from the left- below the diamond/exclamation point symbol for System Information. This will bring up the lockout code page seen above. The code is again, 1984. When the code is entered, the first diagnostic page will appear.

From this page, the owner can see if an input command from the controls joystick is being sent by the controller and feedback is being sent back by the hydrostat coil or sensor. This will help diagnose a problem with either the input device or the device being controlled. A device with no issues should send a feedback signal of 0800-0950mA.



Pressing the System Information button again will take the owner to the second screen. From this screen, the owner can check the tool solenoid switches and see feedback from the solenoids. If a switch is pushed forward or back, the light next to the text will turn green and feedback should be seen from the tool solenoid.

The owner can also change the direction of the auxiliary tool switches by pressing the "LF Flip" or "HF Flip". Depending on the how the attachment manufacturer designed the hydraulic system, the direction of the joystick switches may be more intuitive to the operator if switch direction is flipped.



Any changes made from the diagnostics pages are saved by turning the key off and on again. After turning the key off and on again, the code must be entered at the lockout screen to access the diagnostics and options again.

ROUTINE MAINTENANCE

Routinely check the condition, clean, tighten, repair, or replace as necessary the following:

- Muffler guard
- Hydraulic hoses and fittings
- Fuel lines
- Fasteners
- Safety decals

Barreto recommends using genuine Barreto spare parts to ensure not only quality but also the health and safety of the operator.

Clean safety decals often using soap and water. **Do not use** abrasive cleaners or solvents such as mineral spirits that may damage the decals. Replace any damaged (unreadable) or missing decals. If you replace a machine part that has one or more decals affixed to it, replace the decals also. Replacement parts and decals can be purchased from Barreto Manufacturing, Inc. When attaching decals, the temperature of the mounting surface must be at least 40°F (5°C) and must be clean and dry.

Service the engine according to the engine owner's manual. Follow the directions for all aspects of service including air filter change, oil level checking, filling, draining, disposal of engine oil, disposal of diesel, and off-season long-term storage.

Off-season long-term storage of the Track Loader can be at any ambient temperature.







California Proposition



65 Warning



WARNING: This product contains chemicals known to the State of California to cause cancer, and birth defects or other reproductive harm.

ADVERTENCIA: Este producto contiene productos químicos reconocidos por el estado de California que provocan cancer, defectos de nacimiento u otros daños reproductivos.

For more information: wwwP65Warnings.ca.gov





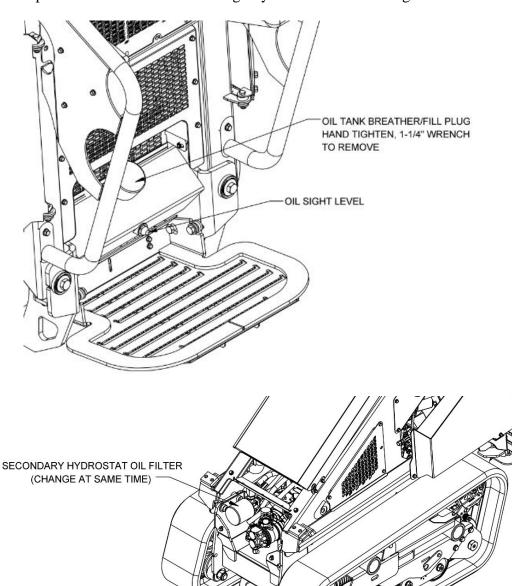
HYDRAULIC HOSE REPLACEMENT

- Make sure Track Loader is turned off and cooled down.
- Ensure the Track Loader is on a level and stable surface/ground.
- Identify the size of the tool needed for hose removal.
- Have shop rags/towels handy to absorb any fluid in the line.
- Make sure your replacement hose is the correct one.
- Once hose is replaced, make sure the fittings are tightened back up.
- Start machine and run all functions.
- Inspect hose(s) for leaks.
- Tighten fittings to spec as illustrated below.
- Make sure hydraulic fluid is filled to the top of the sight glass. (If low see page 3)

Thread	Assembly Torque	Assembly Torque	Tube Connection	Swivel Nut or
Size	(in-lb)	(ft-lb)	FFFT	Hose FFFT
2	35 - 45	2 - 4	N/A	N/A
3	65 - 75	5 - 7	N/A	N/A
4	130 - 150	11 - 13	2	2
5	165 - 195	14 - 16	2	2
6	235 - 265	20 - 22	1.5	1.25
8	525 - 575	43 - 47	1.5	1
10	650 - 750	55 - 65	1.5	1
12	950 - 1050	80 - 90	1.25	1
14	1200 - 1300	100 - 110	1	1
16	1400 - 1500	115 - 125	1	1
20	1900 - 2100	160 - 180	1	1
24	2250 - 2550	185 - 215	1	1
32	3000 - 3400	250 - 290	1	1

CHANGING THE HYDRAULIC FLUID

- Lift machine high enough to place a container large enough to hold at least 15 gallons.
- Remove the drain plug using a 5/16" hex key wrench and allow to drain.
- Replace drain plug.
- Remove the fill plug using a 9/16" hex key wrench.
- Fill to the top of the sight glass using a suitable ISO 68 hydraulic fluid.
- Replace fill plug.
- Dispose of the used fluid according to your local laws and regulations.



KUBOTA ENGINE MAINTENANCE SCHEDULE

SERVICE INTERVALS

Observe the following for service and maintenance.

Interval	Item	Ref.Page		
Every 50 hours	Check of fuel pipes and clamp bands	13		@
See NOTE:	Change of engine oil	15	0	
Every 100 hours	Cleaning of air cleaner element	20	*1	@
	Cleaning of fuel filter	13		
	Check of fan belt tightness	23		
Every 200 hours	Check of radiator hoses and clamp bands	18		
	Replacement of oil filter cartridge	16	0	
	Check of intake air line	250		@
Every 400 hours	Replacement of fuel filter cartridge	14		@
Every 500 hours	Removal of sediment in fuel tank	320		
	Cleaning of water jacket (radiator interior)	17 to 18		
	Replacement of fan belt	23		
	Replacement of air cleaner element	20	*2	@
Every year	Check of damage in electric wiring and loose connections	-		
Every 800 hours	Check of valve clearance	25		
Every 1500 hours	Check of fuel injection nozzle injection pressure	-	*3	@
Every 3000 hours	Check of turbo charger	1 12	*3	@
	Check of injection pump	1 12	*3	@
	Check of fuel injection timer	-	*3	@
Every two years	Change of radiator coolant (L.L.C.)	18		
	Replacement of radiator hoses and clamp bands	18		
	Replacement of fuel pipes and clamp bands	13	*3	@
	Replacement of intake air line	1 42	*4	@

IMPORTANT:

- The jobs indicated by
 must be done after the first 50 hours of operation.
- *1 Air cleaner should be cleaned more often in dusty conditions than in normal conditions.
- *2 After 6 times of cleaning.
- *3 Consult your local KUBOTA Dealer for this service.
- *4 Replace only if necessary.
- The items listed above (@ marked) are registered as emission related critical parts by KUBOTA in the U.S. EPA nonroad emission regulation. As the engine owner, you are responsible for the performance of the required maintenance on the engine according to the above instruction.
 Please see the Warranty Statement in detail.

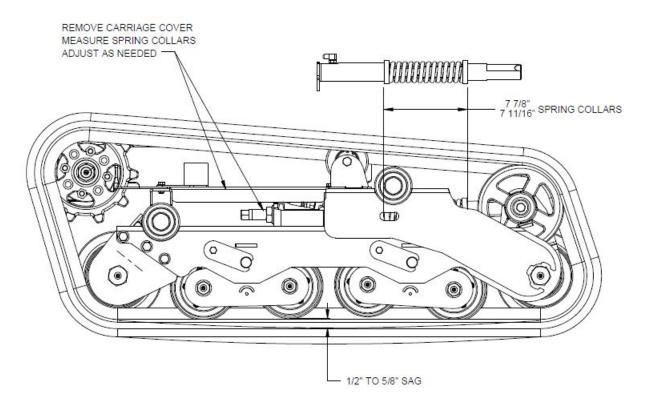
Please see your engine owner's manual for specific procedures and products to use for proper maintenance of your engine, as well as proper disposal of used parts/fluids.

TRACK TENSION ADJUSTMENT

Track must be tensioned enough to prevent de-tracking. Too much tension will cause increased wear on roller, sprockets and drive motor bearings. There are two methods of measuring correct tension: Measure the compression of the springs, or measure track sag.

To measure spring compression:

Loosen tension adjuster nut and lock nut completely. Then tighten adjuster nut to compress tension spring pair to a length of 7-7/8" on the outside of the spring collars. Tighten lock nut.



To measure track sag:

Lift the machine and raise the track off the ground. Measure the distance between either one of the central rollers and track metal core bars and adjust track tension to get 1/2" (13mm) track sag.

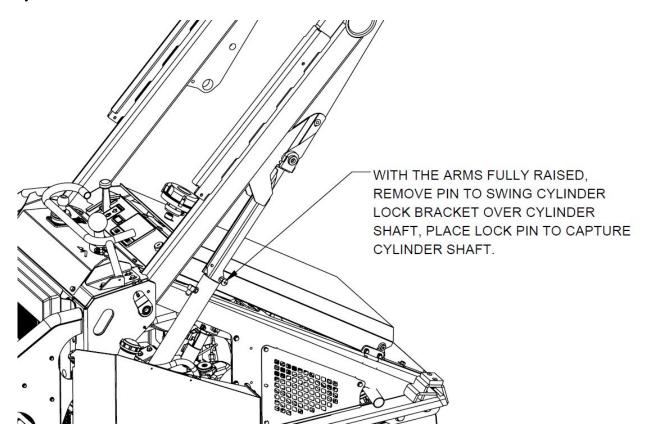
To remove/replace track:

- 1. Completely loosen tensioner nuts, swing tension roller back.
- 2. Remove axle from rear idler, remove three bolts holding rear idler side plate, remove rear idler.
- 3. Remove/replace track and rear idler.
- 4. Reverse procedure to replace track.

Adjust track tension per instructions and illustration.

ARM SAFETY LOCKOUT

To lock arms in the fully raised position, remove the lock pin from the cylinder lockout bracket and allow it to swing down around the arm cylinder. Place lock pin in the lower bracket holes to capture cylinder shaft.



BATTERY MAINTENANCE

Follow the SHUT DOWN PROCEDURE in the OPERATOR'S MANUAL before doing any battery maintenance. For your safety always abide by the following:

Shield entire face, especially your eyes, and wear rubber gloves to avoid acid burns whenever doing anything with the battery. Battery caps must be tightly in place if the battery has removable caps.



WARNING: The battery contains sulfuric acid that can cause blindness and severe burns. Avoid

contact with eyes, skin, and clothing. If acid contacts eyes, call 911 immediately and flush eyes with water for 15 minutes or until emergency medical help arrives. If acid contacts skin, flush area with plenty of water. If acid is ingested, drink large quantities of water or milk then follow with milk of magnesia, beaten egg, or vegetable oil, and get medical attention immediately.

Avoid contact with battery components. Wear rubber gloves and wash hands after handling any battery components.



WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to cause cancer and reproductive harm. Acid can cause blindness and severe burns if leaked from the battery.



Do not charge or jump-start the battery near flames or sparks, or while smoking. **WARNING**: Battery fumes are flammable and explosive. Avoid explosion hazard that could blind

and burn. Tools and jumper cable clamps can make sparks, so use them with care. Shield eyes and face, and wear rubber gloves.

ELECTROLYTE LEVEL: Check the battery electrolyte level every 25 hours of machine use and if necessary add distilled water following this procedure:

- 1. Disconnect the battery cables, removing the negative cable first.
- 2. Remove the battery from the machine.
- 3. Clean the battery exterior with paper towels.
- 4. If the battery posts and cable terminals are corroded, clean them with a wire brush cleaner tool. A solution of four parts water and one part baking soda is helpful.
- 5. Remove the battery caps.
- 6. Slowly pour distilled water into each battery cell until the electrolyte level is up to the full line indicated for each cell on the battery. **Do not overfill**. Overflow of electrolyte, which contains sulfuric acid, can cause severe corrosion to the Track Loader.
- 7. Reinstall the battery caps tightly in place.
- 8. Apply a light coating of grease to the battery terminals to help prevent corrosion.
- 9. Reinstall the battery securely into the Track Loader.
- 10. Reconnect the cables. Attach the positive cable first, then the negative one.

BATTERY MAINTENANCE (continued)

BATTERY VOLTAGE LEVEL: Check the voltage level using an appropriate meter. Always keep the battery fully charged and clean to help prolong battery life expectancy, especially when the temperature is below 32°F (0°C). For off-season long-term storage, we recommend removing the battery from the Track Loader and storing where the ambient temperature remains above freezing.

TO CHARGE THE BATTERY follow this procedure:

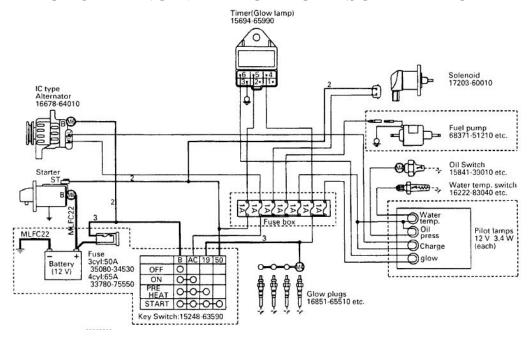
- 1. Disconnect the battery cables, removing the negative cable first.
- 2. Remove the battery from the machine.
- 3. Clean the battery exterior with paper towels.
- 4. If the battery posts and cable terminals are corroded, clean them with a wire brush cleaner tool. A solution of four parts water and one part baking soda is helpful.
- 5. Apply a light coating of grease to the battery terminals to prevent corrosion.
- 6. Check the battery electrolyte level (see procedure above).
- 7. Insure that the battery caps tightly in place.

Do not charge the battery near flames or sparks, or while smoking.

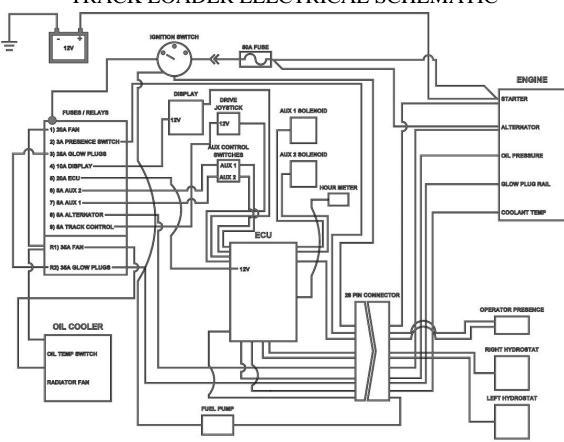
WARNING: Battery fumes are flammable and explosive. Avoid explosion hazard that could blind and burn. Tools and jumper cable clamps can make sparks, so use them with care. Shield eyes and face, and wear rubber gloves.

- 8. Connect a 12-volt DC battery charger and charge at 3 to 4 amperes for 4 to 8 hours. Do not overcharge.
- 9. When the battery is fully charged, turn off and unplug the charger from the electrical outlet, then disconnect the charger leads from the battery posts.
- 10. Reinstall the battery securely into the Track Loader.
- 11. Reconnect the cables. Attach the positive cable first, then the negative one.

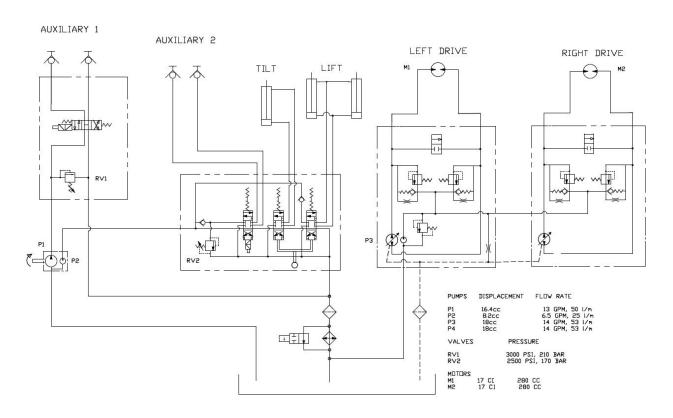
KUBOTA ENGINE ELECTRICAL SCHEMATIC



TRACK LOADER ELECTRICAL SCHEMATIC



HYDRAULIC SCHEMATIC



SPECIFICATIONS

MODEL NUMBER E825TKL

 DIMENSIONS
 KUBOTA DIESEL

 Weight
 2950 lb (1338 kg)

 Height
 52.2" (1.32 m)

 Length
 80.12" (2035 mm)

 Width
 35.5" (901.7 mm)

ENGINE

Engines KUBOTA D1105

Fuel Diesel

Power: hp (kW) at 3000 RPM 25 hp (18.6 kW)

Fuel Capacity 4.6 U.S. gallons (17.4 liters)

Engine Oil Capacity 1.8 quarts (1.7 liters)

Electric Start Standard Hour Meter Standard

HYDRAULIC SYSTEM

Reservoir Capacity 11 U.S. gallons (41 liters)

Oil Cooler Standard

TRACK SYSTEM

Track Width 7.1" (180 mm)
Total Ground Contact 482.8" (.312 sq/m)

OPERATIONS

Ground Drive, Forward 190 feet per minute (57.9 m/m) Ground Drive, Reverse 90 feet per minute (27.4 m/m)

TROUBLESHOOTING GUIDE

CAUTION!! Always use extreme care when troubleshooting or making adjustments on Track Loader. Stay clear of moving parts when engine is running. Stop engine before disassembling any component.

A. Entire hydraulic system does not operate and the engine is not under load.

1. Low hydraulic fluid in tank. Add hydraulic fluid until it shows in sight gauge.

2. Main pump suction leaking air into pump

Check main suction hoses and fittings for leaks and

intake. tighten fitting nuts

3. Operator presence switch. Verify operator presence switch is functioning,

located under standing platform.

B. Engine lugs down or dies and tracks do not turn.

1. Engine improperly tuned or maintained. See engine manual and correct as needed.

2. Tip-over alert causes engine to shut down. This may occur when operating on hills. Level

Track Loader, follow instructions on tip-over reset.

3. Engine losing power due to wear. See engine manual.

C. Hydraulic fluid leaks in hydraulic system.

1. Fittings are loose. Tighten fittings on hoses and adapters.

2. Worn or broken hoses. Replace damaged hoses.

D. Foaming hydraulic fluid coming from breather hose.

1. Improper fluid used. Verify that hydraulic fluid used had antifoaming

additives. Tractor transmission / hydraulic fluid ISO 68 is recommended for use in temperatures

above +32°F.

2. Air leaking into fluid Inspect and tighten fittings and clamps on pump

intake hoses

E. Engine hard to start.

1. Glow Plugs Check glow plug operation and follow start

procedure

F. Engine runs but drive and Tool function doesn't work.

1. Operator presence error. Check position and verify function of operator

presence switch under operator ride platform

G. Auxiliary tool not working1. Tool function switch

Verify HF tool switch is set to Neutral (center position), then select HF Tool again on display

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