

HYDRAULIC EXCAVATOR TB240

Takeuchi
From World First to World Leader



John Edwards
Governmental Sales Manager
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FSA



Product Features & Specifications

ENGINE

- U.S. EPA Final Tier 4 Compliant
- DOC+DPF Exhaust After Treatment
- Automatic Fuel Bleed System
- Dual Element Air Filter
- Automatic Idle
- Working Modes: Power, Eco, and High Altitude
- Engine Preheat Starting Aid
- High Capacity Radiator
- High Capacity Fuel Filters

ELECTRICAL

- LCD Informational Display (canopy)
- 5.7" Color Multi-Informational Display (cab)
- Sealed Rocker Switches
- 12 volt System with 40 amp Alternator
- Halogen Work Lights: Boom and Side Cover
- Travel Alarm
- Horn

TAKEUCHI FLEET MANAGEMENT

- 2 Year Standard Service
- Minimize Downtime
- Remote Diagnostics
- Utilization Tracking
- Proactive Maintenance
- Control Costs

UNDERCARRIAGE AND FRAME

- Triple Flanged Track Rollers
- Two-Speed Travel with Automatic Shift
- High Torque Planetary Final Drive
- Heavy Duty Dozer Blade with Float
- Large Wrap Around Counterweight
- 13.8" Rubber Tracks
- 13.8" Steel Tracks (optional)
- Power Angle Blade with Float and Bolt-on Cutting Edge (optional)

OPERATOR'S STATION

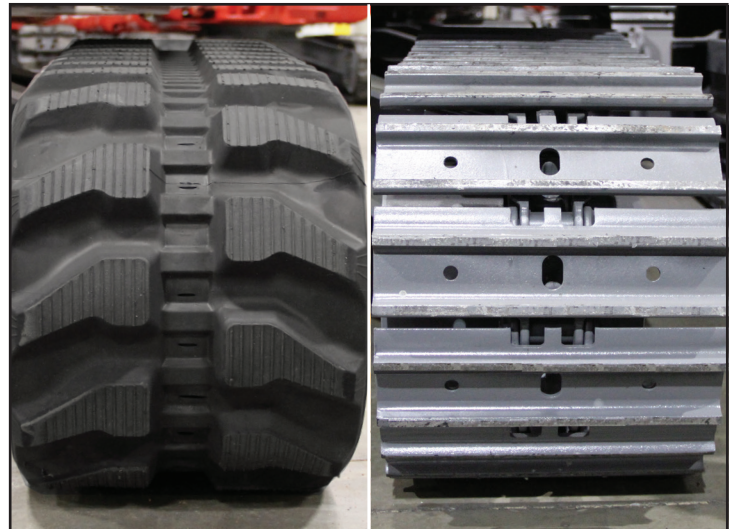
- ROPS / TOPS / OPG (ISO 10262 Level 1) Four Post Canopy
- Deluxe High Back Suspension Seat
- Adjustable Arm Rests
- Proportional Slide Switch for Auxiliary Hydraulics
- 2" Retractable Seat Belt
- 3" Retractable Seat Belt (optional)
- Cab with Air Conditioner, Heat Defrost, Windshield Wiper and Washer, Skylight with Sunshade, AM / FM / MP3 Radio, 12v Power Outlet (optional)

HYDRAULIC & WORKING EQUIPMENT

- Variable Displacement, Open Center Hydraulics
- High Capacity Hydraulic Oil Cooler
- Large Hydraulic Reservoir with Fluid Level Sight Gauge
- Cushioned Boom, Arm, and Swing Cylinders
- Main Boom Cylinder Guard
- Hydraulic Pilot Controls
- Proportional Auxiliary Controls with Detent
- Adjustable Auxiliary Flow
- Primary Auxiliary Hydraulic Circuit Plumbed to Arm
- Multiple Attachment Presets
- Flow Selector Valve, Primary Auxiliary Circuit
- Pattern Change Valve (ISO or SAE)
- Pilot Accumulator
- Long Arm with Integrated Thumb Mount
- Dual Pin Position Bucket (optional)
- Mechanical Bucket Quick Coupler (optional)
- Main Pin Hydraulic Thumb (optional)



Angle Blade with Reversible Bolt On Cutting Edge



Track Options - Rubber or Steel

OPERATING PERFORMANCE

Operating Weight - Canopy	8,570 lb	(3,890 kg)
Cab	8,990 lb	(4,080 kg)
Maximum Bucket Breakout Force	9,959 lb	(4,517 kg)
Maximum Arm Digging Force	4,110 lb	(1,864 kg)
Arm Length	5 ft 3 in	(1,600 mm)
Slew Speed	9.6 rpm	
Traction Force	9,533 lb	(4,324 kg)
Ground Pressure - Canopy	4.4 psi	(30.2 kPa)
Cab	4.6 psi	(31.6 kPa)
Max Travel Speed		
Low Range	1.8 mph	(2.9 km / hr)
High Range	3.3 mph	(5.3 km / hr)

ENGINE

Make / Model	Yanmar / 4TNV88C	
Displacement	133.6 cu in	(2.2 L)
Horsepower @ 2,200 rpm	35.8 hp	(26.7 kW)
Maximum Torque @ 1,430 rpm	102.6 ft-lb	(139.1 Nm)

FLUID CAPACITIES

Engine Lubrication	7.8 qt	(7.4 L)
Cooling System	9.5 qt	(9.0 L)
Fuel Tank Capacity	18.5 gal	(70.0 L)
Fuel Consumption (65% of Full Load)	1.2 gal / hr	(4.8 L / hr)
Hydraulic Reservoir Capacity	10.8 gal	(41.0 L)
Hydraulic System Capacity	19.5 gal	(74.0 L)

HYDRAULIC SYSTEM

Total Hydraulic Flow	30.6 gpm	(115.8 Lpm)
Auxiliary Hydraulic Flow	17.1 gpm	(64.9 Lpm)
System Operating Pressure	3,481 psi	(24.0 MPa)



Canopy Display



Cab Display





Long Arm with Thumb Mount



Convenient Serviceability

TB240 Lifting Capacities at Ground Level*

Lift Point Radius from Rotation Axis		9 ft (2,743 mm)		12 ft (3,657 mm)	
	Lifting Capacities Over Front, Blade Down	3,683 lb	(1,670 kg)	2,462 lb	(1,116 kg)
	Lifting Capacities Over Side	2,019 lb	(915 kg)	1,356 lb	(615 kg)

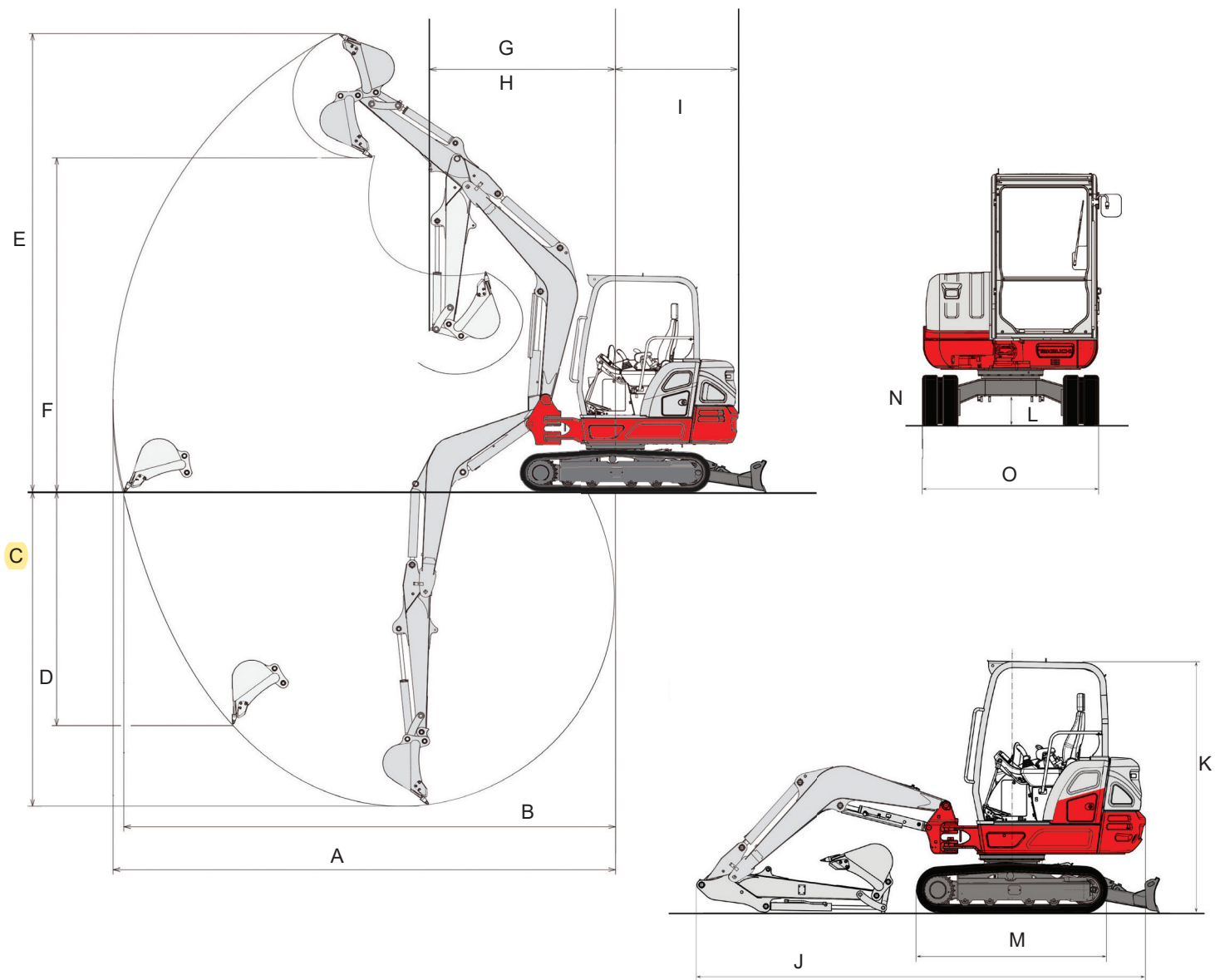
* Ratings based on ISO10567 and do not exceed 87% of hydraulic lift or 75% of tipping load.

ATTACHMENTS

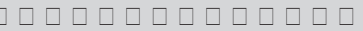
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See your authorized Takeuchi dealer for additional information and attachment options.

TB240 Compact Excavator



MACHINE DIMENSIONS

A	Maximum Reach	18 ft 2.3 in	(5,545 mm)
B	Maximum Reach at Ground Level	17 ft 9.6 in	(5,425 mm)
C	Maximum Digging Depth	11 ft 4.4 in	(3,465 mm)
D	Maximum Vertical Digging Depth	8 ft 8.9 in	(2,665 mm)
E	Maximum Dig Height	17 ft 2.5 in	(5,244 mm)
F	Maximum Dumping Height	12 ft 6.6 in	(3,825 mm)
G	Front Swing Radius	6 ft 8.3 in	(2,040 mm)
H		5 ft 3.8 in	(1,620 mm)
I	Tail Swing (Slew) Radius	4 ft 5.7 in	(1,365 mm)
J	Transport Length	16 ft 8.2 in	(5,020 mm)
K	Transport Height	8 ft 2.6 in	(2,505 mm)
L	Ground Clearance	11.6 in	(295 mm)
M	Undercarriage Length	6 ft 11.0 in	(2,110 mm)
N	Track Width (Rubber)	13.8 in	(350 mm)
O	Undercarriage Width	5 ft 8.5 in	(1,740 mm)

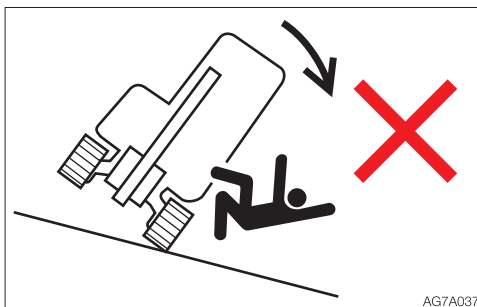


OPERATION OPERATING PROCEDURES

CAUTIONS ON TRAVELING ON SLOPES

WARNING

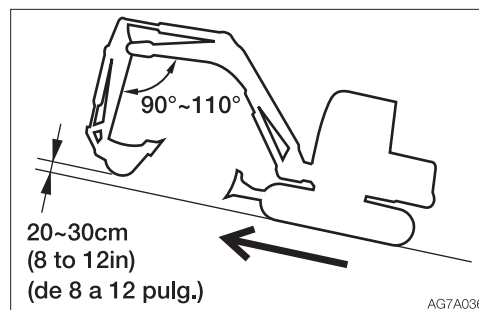
- Never travel on slopes that are too steep for the machine to maintain its stability. (maximum gradeability: 30°, lateral tipping angle: 15°) Note that in reality, the machine's stability becomes lower than the above values depending on the working condition.
- When traveling on slopes, lower the bucket to a height of 20 to 30 cm (8 to 12 in.) above the ground. When climbing a steep slope, extend the hoe attachment to the front. In emergencies, lower the bucket to the ground and stop the machine.
- When traveling on slopes or grades, drive slowly in 1st (low) speed.
- When climbing a hill, keep the operator's seat facing the hillside. When descending a hill, keep the operator's seat facing the downhill direction. In either case, travel must be done while paying attention to the ground in front of the machine.
- Do not descend slopes in reverse.



- Do not change directions on slopes or traverse slopes. First return to a flat surface, and then take an alternative path.

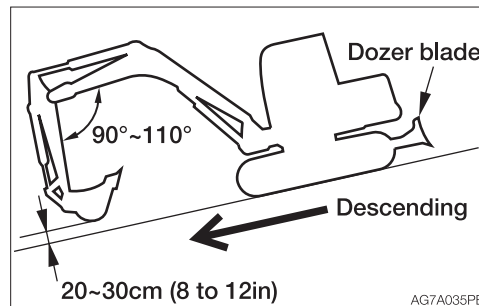
- The machine may slip sideways even on a slight slope if they are covered with grass or dead leaves, or when traveling on a wet metal plate or frozen surfaces. Do not allow the machine to position sideways to slopes.

Traveling posture on slopes Climbing slopes



When climbing slopes of 15° or more, maintain the machine posture as shown in the figure above.

Descending slopes



When descending slopes of 15° or more, slow down the engine speed and maintain the machine posture as shown in the figure above.



takeuchi

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TB240

Compact Excavator

STANDARD EQUIPMENT

Operating Weight: 8,570 lbs.	TOPS/ROPS/OPG 4 post canopy
Width: 5' 8.5"	Color gauge panel with multi-function operator information center
Maximum Dig Depth: 11' 4.4"	High back adjustable suspension seat
Bucket Digging Force: 9,959 lbs.	Pilot operated joystick control with pattern change valve
Horsepower / RPM: 35.8 / 2,200	EPA Final Tier 4 compliant engine with DPF and engine monitoring system
Travel Speed: 1.8 / 3.3 mph	Self bleeding fuel system with ground level fuel fill, sight gauge and lockable door
Auxiliary Flow: 17.1 gpm	Side by side industrial type radiator and hydraulic oil cooler
Boom Swing: Left 76° / Right 58°	Primary 2-way auxiliary hydraulic circuit w/adjustable flow control system,
Track width: 13.8"	proportional slide switch, one-way mode and continuous detent mode
	Safety features include: Travel alarm, retractable seat belt,
	control lockout, pilot accumulator, and lights
Two speed travel with automatic shift down	Variable displacement axial piston pump
Reinforced arm w/ Integrated thumb mount	Auto Idle
Heavy duty dozer blade with float	
TFM hardware standard equipment, service included through the standard warranty period (Canopy: sn 124001379~ / Cab: sn 124001483~)	

BASE MACHINE WITH STANDARD EQUIPMENT

Factory Code	Description
TB240	TB240 Canopy Equipped with Rubber or Steel Tracks

18" Pin-On Bucket with teeth, 2.7 cu. ft. capacity	Included
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John Edwards, Governmental Sales Manager, 850-685-7055, jedwards@cowin.com

WARRANTY TERMS AND CONDITIONS

1.0 GENERAL WARRANTY INFORMATION

The Takeuchi warranty is a limited warranty that is provided to the retail purchaser in return for consideration paid as part of the purchase price of the product and, in the case of a coverage plan, in return for additional monies paid. The selling dealer must review the warranty coverage with the retail purchaser and obtain a signature on the Delivery Report and Warranty Registration Form. Subject to the terms of the Takeuchi warranty, Takeuchi warrants to the first purchaser that the new Takeuchi machine will be free from defects in material and workmanship for the period set forth below:

- **New Excavators, Rubber Track Loaders, Skid Steer Loaders, and Wheel Loaders** - 24 months or 2,000 machine hours, whichever occurs first.
- **Takeuchi Replacement Parts** - 12 months or to the end of the new machine warranty period, whichever is longer.
- **Batteries** - 12 months, pro rata basis.
- **Takeuchi Attachments and Options** - 12 months (excluding ground engaging attachments).
- **Rubber Tracks** - Takeuchi brand OEM and aftermarket 12 months, pro rata basis (parts only).

The warranty period for all coverage begins at the time that any one of the following conditions are met no matter which occurs first:

- **Unit is sold to a retail customer.**
- **Unit is placed into rental.**
- **Unit accumulates over 100 hours on hour meter.**
- **Twelve (12) months from the Takeuchi invoice due date.**

1.1 RESPONSIBILITY

Takeuchi's Responsibility:

- To provide customers and dealers with high quality and reliable equipment.
- To pay our dealers quickly and fairly for warrantable repairs.
- To analyze failed parts and review warranty claims so that we can take corrective action to reduce warranty incidents and increase customer satisfaction.
- To provide training regarding the maintenance and repair of Takeuchi products.
- To provide quick and easy access to required support information.

Dealer's Responsibility:

- To analyze the customer's needs and specify the right equipment for the application.
- To provide adequate facilities and equipment to properly service Takeuchi products; this includes having all required Takeuchi service tools on hand.
- To employ technicians who are qualified to service Takeuchi products.
- To register equipment promptly when it is placed into service, so warranty coverage is in effect.
- To consider all factors and information when making/submitting a warranty claim and provide all requested information regarding the failure and repair in a timely fashion.
- To determine if the Takeuchi product is under warranty before performing any repairs.

- To repair Takeuchi products in a timely manner.
- To correctly repair Takeuchi products the first time.
- To submit a completed warranty claim online within 30 days of repair date.
- To retain the failed parts for 90 days after payment has been received.
- To perform required updates and modifications in a timely fashion.

Customer's Responsibility:

- To maintain the equipment in accordance with the instructions in the Operator's Manual, and to keep accurate records of this maintenance.
- To operate the equipment in a safe manner that is within the parameters of the designed utility.
- To cease operation of the equipment if a defect occurs so as to avoid extra damage which may be caused by continued operation.
- To deliver the equipment to the dealer so that repairs can be made.
- To comply with all requests for updates and modifications required to be performed on any Takeuchi equipment.

The Takeuchi warranty remains in effect during the warranty period if the owner performs the required maintenance at the recommended intervals outlined in the product Operator's Manual and the unit is operated within its rated capacity. If a defect occurs, either in the material or workmanship, it is the customer's responsibility to cease operating the unit until repairs are made. DAMAGES OCCURRING FROM CONTINUED USE AND/OR NEGLECT MAY NOT BE COVERED BY WARRANTY. Owners should contact their local authorized Takeuchi dealer immediately so that repairs can be made. It is the owner's responsibility to return the machine to an authorized repair facility for warranty repairs.

1.2 SECURING WARRANTY SERVICE

Warranty service must be obtained at an authorized Takeuchi dealer location or an approved Takeuchi service center and requested within the applicable coverage period.

- Takeuchi will, during the applicable warranty period, repair or replace at its option any component or parts (except those specified below) that, as delivered to the original purchaser, are defective in material and workmanship. Takeuchi will determine in its sole discretion, whether a defect of failure is covered by this warranty. No charge shall be made to the purchaser for parts and reasonable labor incurred in making the repairs except as otherwise stated below.
- Warranty repairs will be performed by an authorized Takeuchi service center upon delivery of the machine or defective part to the service center. At the time of requesting warranty service, the purchaser must present evidence of the date of purchase of the machine.
- The purchaser shall pay any premium for overtime and additional labor requested by the purchaser, any charge for field service calls, mileage charges, transporting the machine or parts thereof to and from

the place where the warranty is performed and unusual freight charges for the shipment of parts from Takeuchi which the purchaser may request.

1.3 ITEMS NOT COVERED BY WARRANTY

The Takeuchi New Machine Limited Warranty does not cover:

- Any machine which has been altered or modified in a manner which, in the sole judgment of Takeuchi, affects its performance, stability or reliability, including the use of non-approved attachments.
- Depreciation or damage caused by normal wear and tear, failure to properly maintain the machine, improper use or abuse of the machine, collision, fire or accident, vandalism, negligence, or operation beyond rated capacity or specifications.
- Parts or components that are covered by separate and specific warranties, including but not limited to tires and warranties extended by other manufacturers.
- Accident or damage caused by the environment, such as but not limited to: exposure to corrosive or hazardous materials.
- Replacement of wear items, such as but not limited to buckets and bucket teeth, cutting edges, pins, bushings, glass, radios, tires, wheels, and undercarriage components.
- Normal maintenance parts and labor including, but not limited to: replenishment of oils, lubricants, coolants, fluids, hydraulic oil, lights, filters, belts, hoses and fittings.
- Machines not properly registered with Takeuchi when first placed into service.
- Costs associated with pickup and delivery of the equipment, rental of replacement equipment during the repair period, economic loss during the repair, overtime labor charges, travel time, mileage or zone charges and freight charges of replacement parts.

1.4 WARRANTY REGISTRATION

New machine warranty coverage begins when the machine is properly registered. Registration is realized when the registration is initiated online and completed by the Delivery Report and Warranty Registration Form being received and processed by Takeuchi. A machine must be registered when any of the following conditions are met no matter which occurs first:

Unit is sold to a retail customer.

Unit is placed into rental.

Unit accumulates over 100 hours on hour meter.

Twelve (12) months from the Takeuchi invoice due date.

Please note that if the Warranty registration is not received when the machine is put into service, the warranty start date will be determined by the sole judgment of Takeuchi Mfg. U.S. based on invoice paid date, hours, date sold to retail customer or dealer rental fleet in service date. Warranty claims will not be accepted until the proper registration has been received by Takeuchi Mfg. U.S.

The completed warranty registration form must be sent to:

Takeuchi Mfg. U.S. Ltd.
Attn: Warranty Department
519 Bonnie Valentine Way
Pendergrass, GA 30567

1.5 WARRANTY REIMBURSEMENT

Takeuchi provides for warranty reimbursement due to defects in material or workmanship only. Warranty does not include restoring to factory new condition, any machine or portion thereof which has accumulated hours of operation. This includes customer-owned and used equipment still covered by warranty.

With the exception of only a few parts not available through Takeuchi, all Takeuchi warranty repairs must be performed using ONLY genuine Takeuchi new service parts. Installation of non-Takeuchi replacement parts does NOT qualify for warranty reimbursement and can void the machine's warranty.

Under no circumstance may a dealer take a credit against their open account for a pending warranty claim. Additionally, dealers are responsible for making sure that their parts account is maintained according to the Takeuchi Terms and Conditions Agreement. Failure to comply will subject the dealer to interest penalties, terms reduction, or parts termination.

Pre-Authorization: The dealer must obtain email pre-authorization from the Takeuchi Regional Service Manager for repairs to exceed \$3000. Final approval of repairs will be made by Takeuchi upon inspection of failed components. This email authorization should be attached to the warranty claim when submitted.

Parts: Takeuchi will reimburse servicing dealers for parts approved, based on the price in effect on the date the parts are replaced. Takeuchi will reimburse for approved parts used for repair, at 110% of dealer cost. This cost includes any discounts or programs taken to reduce the part cost. All parts replaced under warranty, not recalled by Takeuchi, must be retained by the dealership for 90 days after payment has been received.

Labor: Takeuchi shall reimburse the dealer at 100% of the dealer's posted retail shop labor rate (for in-shop repairs) on file with Takeuchi at the time the warranty claim is entered. Shop labor rates may be adjusted once a year during the second quarter. This retail shop labor rate shall be subject to verification by Takeuchi from copies of actual invoices to customers.

Outside Charges: Specialized repair, such as machine shop, radiator, or air conditioning repair not normally performed at some dealer locations, will be accepted as part of the warranty claim at actual cost. To support the claim, the dealer must explain the parts used and service work performed in the failure description and probable cause section of the warranty claim and submit a copy of the invoice.

Freight: The cost to return warranty recalled parts to Takeuchi will be reimbursed. Freight expense reimbursements are to be filed on a separate claim for all heavy items that have been recalled by the Warranty Department. The dealer is responsible for attaching a copy of the freight invoice to the warranty claim for processing.

Travel: Takeuchi does not reimburse for travel time or mileage. It is the customer's responsibility to deliver a machine to an authorized service center for repairs.

1.6 FILING A WARRANTY CLAIM

In order to receive reimbursement for warranty work per-

formed, dealers and authorized Takeuchi service centers should enter the claim information via the Takeuchi e-commerce website. All claims should be submitted to Takeuchi no later than 30 days from the date of repair.

NOTE: Failure to submit warranty claims in a timely fashion will result in non-payment of requested warranties.

Once the warranty claim is received by Takeuchi, a warranty claim number will be assigned. Dealers should check the Takeuchi e-commerce website to view the status on warranty claims as well as to see which parts (if any) are being recalled by Takeuchi. Any part recalled by Takeuchi will be noted on the web warranty claim. Takeuchi will also notify the dealer of the recall request. Recalled parts not received by Takeuchi within 45 days from request date will result in a DENIED warranty claim.

All recalled parts returning to Takeuchi must contain a copy of the Return Merchandise Authorization (RMA) Form and the return authorization number should be printed on the outside of the box. Failure to enclose a copy of the RMA form or indicating the RMA number on the outside of the box will result in your parts being refused in the receiving department, thus delaying the claim process.

1.7 EXTENDED WARRANTY

Takeuchi offers Power Protection Plans that are available for purchase on all machines during the New Machine Limited Warranty period. These plans are for varying periods of time and varying degrees of coverage, but are subject to the same conditions as the original Takeuchi limited warranty.

1.8 FEDERAL EMISSIONS WARRANTY

Takeuchi Manufacturing will warrant to the initial owner, and each subsequent owner, the emission control system on the non-road diesel engine installed in Takeuchi equipment for the periods of time listed below.

- The emissions warranty period for all engines rated at 19kW (25 HP) or below is 2 years or 2000 engine hours, whichever occurs first.
- The emissions warranty period for all engines rated above 19kW (25 HP) or above is 5 years or 3000 engine hours, whichever occurs first.

Further detail regarding the Federal Emissions Warranty can be found in Takeuchi's Federal & California Emission Control Systems warranty policy.

1.9 POWER PROTECTION PLAN TRANSFER

The Takeuchi Power Protection Plan is transferable on all machines by filling out a transfer form and remitting the warranty transfer fee of fifty dollars (\$50.00) to:

Takeuchi Mfg. U.S. Ltd.
Attn: Warranty Department
519 Bonnie Valentine Way
Pendergrass, GA 30567

1.10 MODIFICATION/SAFETY BULLETIN NOTIFICATION

Takeuchi strives to provide quality dependable equipment. Problem areas sometimes require correction to maintain customer confidence and loyalty. In such instances, Takeuchi may deem it mandatory that such problems be corrected on both customer machines and dealer inventory units at the earliest possible time. Such action is referred to as a field modification.

Dealers will be advised of the exact procedures to be fol-

lowed and reimbursement rates are as follows:

- Modification and safety bulletin notifications will be emailed to the dealer's specified e-mail address provided by each dealer.
- These bulletins will also be available online through the e-commerce website.
- Parts necessary to complete the modification will be made available either via automatic shipment by Takeuchi to the dealer of record or the dealer will be advised to order the required parts.
- All modifications must be performed in an expeditious manner, as time is of the essence.
- All warranty claims for modifications must reference the modification number on the warranty claim.

2.0 TAKEUCHI FLEET MANAGEMENT - TELEMATICS

Takeuchi MFG U.S. Ltd and its affiliates collect, monitor and use certain data from equipment that you have purchased. This data referred to as "Machine Data" is collected, generated and/ or stored in the equipment you have purchased from Takeuchi. Machine Data generally includes data regarding the operation of the equipment, such as measuring multiple engine data points, fuel consumption, oil pressure and other engine performance factors. Machine Data can also include the collection, monitoring and use of data involving how and where the equipment is being used.

Takeuchi collects and uses this Machine Data, among other things, for purposes of providing customer support, marketing, product safety and other general business purposes. The use of Machine Data will enable Takeuchi to better understand how its equipment is being used, which in turn will allow it to research potential improvements and make its products and services even more useful to its customers.

Takeuchi does not generally share Machine Data it collects with other companies, except that Takeuchi may share such information with its suppliers, customers who have purchased such data for a monthly service fee, affiliates, dealerships, business partners and other companies that are performing services for it. Finally, Takeuchi may disclose Machine Data if required by law to do so.

The execution of this contract/bill of sale constitutes permission for Takeuchi to collect, monitor, store and use the Machine Data for the purposes set forth above.

Dealer: _____

Print Name: _____

Signature: _____

Title: _____

Date: _____