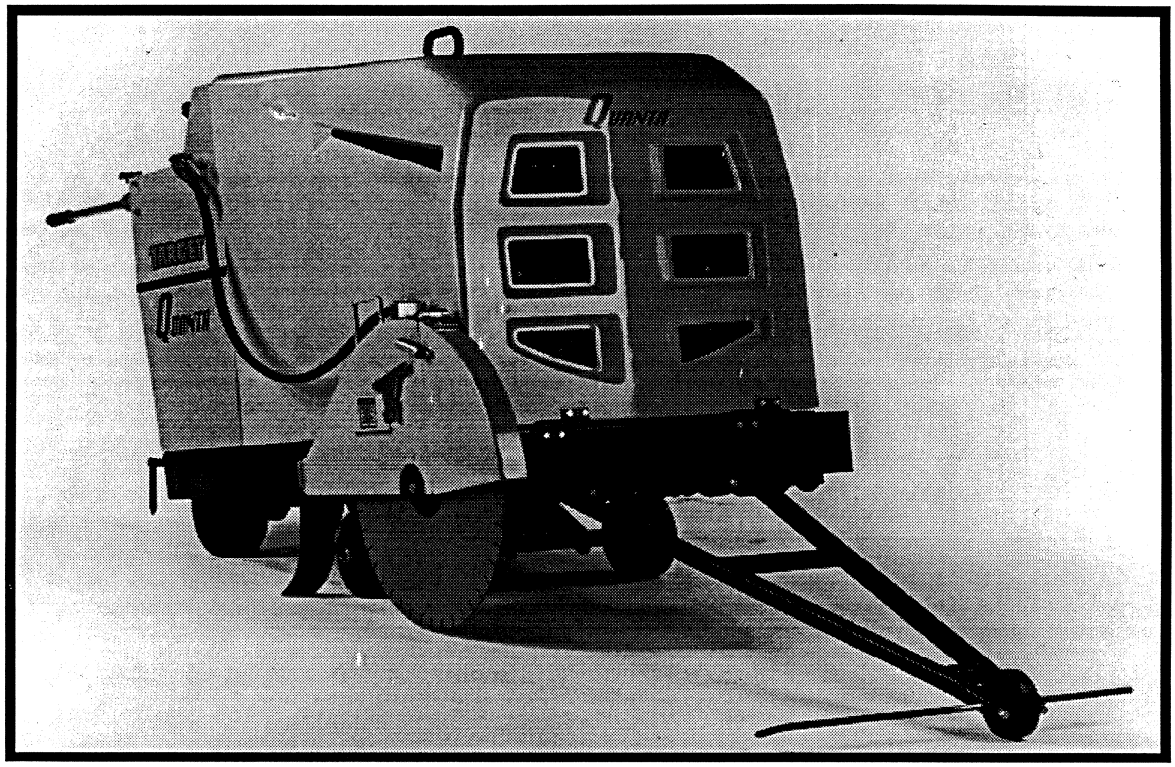
OPERATING INSTRUCTIONS AND PARTS LIST
INSTRUCCIONES DE OPERACIÓN Y LISTA DE PIEZAS
MANUEL D'UTILISATION ET D'ENTRETIEN ET PIECES DE RECHANGE



QUANTA™
The Next Generation™

MODELS: 14/26
18/30
24/36
30/48

TARGET®

4320 Clary Boulevard
Kansas City, MO 64130
Customer Service 800-288-5040
Corp. Office 816-923-5040
Cust. Service FAX....800-825-0028
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DIAMANT BOART INC.

0A7708

September, 1995

EVERY MACHINE IS THOROUGHLY TESTED BEFORE LEAVING THE FACTORY. EACH MACHINE IS SUPPLIED WITH A COPY OF THIS MANUAL. OPERATORS OF THIS EQUIPMENT MUST READ AND BE FAMILIAR WITH THE SAFETY WARNINGS. FAILURE TO OBEY WARNINGS MAY RESULT IN INJURY OR DEATH. FOLLOW INSTRUCTIONS STRICTLY TO ENSURE LONG SERVICE IN NORMAL OPERATION.

CONTENTS

ANTES DE SALIR DE NUESTRA FÁBRICA, CADA MÁQUINA ES SOMETIDA A PUREBAS DETENIDAS. CADA MÁQUINA DE CORTE ES ENTREGADA CON UNA CIPIA DE ESTE MANUAL. LOS OPERARIOS DE ESTOS EQUIPOS DEBEN LEER Y FAMILIARIZARSE CON LAS INSTRUCCIONES DE SEGURIDAD. EL NO PRESTAR ATENCIÓN A ESTAS ADVERTENCIAS PUEDE OCASIONAR GRAVES LESIONE. SIGA ESTRICAMENTE NUESTRAS INSTRUCCIONES Y SU MÁQUINA LE VA A PRESTAR LARGOS AÑOS DE SERVICIO EN CONDICIONES NORMALES DE UTILIZACIÓN.

CONTENIDO

AVANT DE QUITTER L'USINE, CHAQUE MACHINE SUBIT UNE SÉRIE DE CONTRÔLES AU COURS DESQUELS TOUT EST MINUTIEUSEMENT VÉRIFÉ. CHAQUE MACHINE EST FOURNIE AVED UN EXEMPLAIRE DE CE MANUEL. SES UTILISATEURS DOIVENT LIRE ATTENTIVEMENT CE DERNIER ET SE FAMILIARISER AVEC LES INSTRUCTIONS DE SÉCURITÉ. NE PAS RESPECTER CES INSTRUCTIONS ET MISES EN GARDE PEUT ENTRAÎNER DES BLESSURES. SUIVRE LES INSTRUCTIONS SCRUPULEUSEMENT POUR ASSURER À LA MACHINE UNE LONGUE DURÉE DE VIE DANS DES CONDITIONS D'UTILISATION.

MATIÈRES

SYMBOL DEFINITIONS
ANAGRAMA
SYMBOLES

- Please read the instructions for use prior to operating the machine for the first time.
- Avant toute mise en service, lire attentivement la notice et se familiariser avec la machine.
- Antes de la puesta en marcha, lea detenidamente las instrucciones y familiaricese con la máquina.

- Mandatory
- Obligatoire
- Obligatorio

- Indication
- Indicazione
- Indicación

- Prohibition
- Interdiction
- Prohibición

- Warning Triangle
- Triangle D'Advertissement
- Triángwulo De Advertencia

- Wear Eye Protection
- Port Obligatoire Des Lunettes De Protection
- Usar Gafas De Protección

- Wear Head Protection
- Port Obligatoire Du Casque Et Des Écouteurs
- Usar Casco De Protección

- Wear Breathing Protection
- Port Obligatoire D'un Masque Respiratoire Protecteur
- Usar Máscara De Protección

- The Use Of Ear Protection Is Mandatory
- Port Obligatoire Da Casque Antibruit
- Es Obligatorio El Uso De Protección Auditiva

- Wear a Hard Hat
- Port Obligatoire Da Casque Antibruit
- Usar Casco Duro

- Wear Safety Shoes
- Port Obligatoire Des Chaussures De Sécurité
- Usar Zapatos De Seguridad

- Wear Appropriate Clothing
- Port Obligatoire De La Tenue Appropriée
- Usar Ropa Adecuada

- Remove The Blade Prior To Hoisting, Loading, Unloading And Transporting The Machine On Jobsite.
- Démontage Obligatoire Du Disque En Cas D'élingage, De Chargement, De Déchargement Et De Transport Sur Le Chantier.
- Desmontar El Disco Antes De Desplazar, Cargar, Descargar O Transportar La Máquina En La Obra.

- Motor Off
- Arrêt Du Moteur
- Parar El Motor

- Use In Well Ventilated Area
- A Utiliser Dans Un Endroit Bien Ventilé
- Usar En Una Área Bien Ventilada

- Do Not Use In Flammable Areas
- Ne Pas Utiliser Dans Des Ambiances Comportant Un Risque D'incendie
- No Usar In Áreas Inflamables

- Machinery Hazard, Keep Hands And Feet Clear.
- Danger! Rester À Distance De La Machine
- Máquina Peligrosa - Mantenga Manos Y Pies Alejados De La Máquina

- Danger, Poison Exhaust Gas
- Danger. Gaz D'échappement Toxiques
- Peligro, Gases De Escape Tóxicos

- No Non-working Personnel In Area
- Zone Interdite Au Personnel Non-Ouvrier
- Prohibido Para Personas Ajenas A La Obra

- No Smoking
- Défense De Fumer
- No Fumar

- Do Not Operate Without All Guards In Place
- Ne Pas Utiliser Avant D'avoir Installé Toutes Les Protections
- No Operar Sin Todas Las Protecciones In Su Sitio

- Always Keep the Blade Guards In Place
- Toujours Vérifier Que Les Protections De Disque Sont Bien En Place
- Mantenga Siempre Las Protecciones De La Hoja En Su Sitio

- Water Safety Switch-Press to Reset if Water Supply Interrupted
- Interrupteur De Sécutité D'eau. Le Manoeuvrer Pour Le Réarmer Si L'alimentation
- Si Se Ha Interrumpido El Suministro De Agua, Pulsar El Conmutador De Seguridad De Agua Para Reposicionarlo.

- Coolant Temperature
- Température Du Réfrigérant
- Temperatura Del Líquido Refrigerante

- Keep Work Area Clean/Well Lit, Remove All Safety Hazards
- La Zone De Travail Doit Toujours Être Propre, Bien Éclairée Et Ne Présenter Aucun Risque
- Mantenga Limpio El Sitio De Trabajo/Bien Iluminado, Elimine Todos Los Riesgos De Seguridad

- Dangerously High Noise Level
- Niveau De Bruit Dangereux
- Nivel De Ruido Elevadamente Peligroso

- Pay Extreme Attention To The Care And Protection Of The Machine Before Starting Up
- Accorder Une Très Grande Attention Á La Sécurité Et À La Préparation De La Machine Avant De Commencer À Travailler
- Ponga Extrema Atención Al Cuidado Y Preparación De La Máquina Antes De Ponerla En Marcha

- Remove Tools From Area and Machine
- Enlever Les Outils De La Zone De Travail Et De La Machine
- Elimine Las Herramientas Del Área Y De La Máquina

- Remove Tools From Area and Machine
- Enlever Les Outils De La Zone De Travail Et De La Machine
- Elimine Las Herramientas Del Área Y De La Máquina

- Oil Pressure
- Pression D'huile
- Presión De Aceite

- Oil Required
- Appoint D'huile!
- Necesita Aceite

- Dipstick, Maintain Proper Oil Level
- Jauge, Maintenir Un Niveau D'huile Correct
- Varilla De Control, Mantenga El Nivel De Aceite Correcto

- Lubrication Point
- Point De Graissage
- Punto De Lubrication

- Unleaded Fuel Only
- Carburant Sans Plomb Uniquement
- Solamente Combustible Sin Plomo

- High Range Travel Speed
- Vitesse D'avance Rapide
- Alta Velocidad De Avance

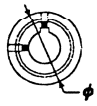
- Low Range Travel Speed
- Vitesse D'advane Lente
- Baja Velocidad De Avance

- Repairs Are To Be Done By An Authorized Dealer Only
- Les Réparations Ne Peuvent Être Exécutées Que Par Un Distributeur Agréé
- Las Reparaciones Deben Ser Efectuadas Únicamente Por Un Distribuidor Autorizado

- Headlight
- Projecteur
- Luz De Cruce

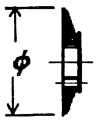
- Diamond Blade
- Disque Diamanté
- Sierra Diamantada

- Blade Diameter
- Diamètre De Disque
- Diámetro De La Hoja



- Pulley Diameter
- Diamètre De Poulie
- Diámetro De La Correa

- Number of Revolutions Per Minute, Rotational Speed
- Nombre De Tours/Minutes, Vitesse De Rotation
- N° De Revoluciones Por Minuto, Velocidad De Rotación



- Blade Flange Diameter
- Diamètre Du Flasque De Disque
- Diámetro De La Brida De La Hoja

- Blade Depth Stop
- Butée De Profondeur De Coupe
- Tope De Profundidad De La Hoja

- Blade Cutting Depth
- Profondeur De Coupe Du Disque
- Profundidad De Corte De La Hoja

- Parking Brake
- Frein De Stationnement
- Freno De Estacionamiento

- Machine Mass (lbs)
- Poids De La Machine (en lbs)
- Masa De La Máquina (lbs)

- Positive Battery Terminal
- Borne Positive De Batterie
- Terminal Positivo De Batería

- Blade Indicator -Zero
- Indicateur Zéro De Disque
- Indicador De Cero De La Hoja

- Electric Motor
- Moteur Électrique
- Motor eléctrico

- Engine
- Moteur
- Motor

- Engine Speed Revolutions/Minute
- Vitesse Du Moteur En Tours/Minute
- Velocidad Del Motor En Revoluciones Por Minuto (RPM)

- Engine Start
- Démarrage Due Moteur
- Arranque Del Motor

WARNING

HEARING HAZARD

DURING NORMAL USE OF THIS MACHINE, OPERATOR MAY BE EXPOSED TO A NOISE LEVEL EQUAL OR SUPERIOR TO **85 dB (A)**

ATTENTION

RISQUE DE DÉTÉRIORATION AUDITIVE

DANS LES CONDITIONS NORMALES D'UTILISATION, CETTE MACHIEN PEUT COMPORTER POUR L'OPÉRATEUR, UN NIVEAU D'EXPOSITION SONORE ÉGALE OU SUPÉRIEUR À **85 dB (A)**

ATENCION

RIESGO DE DAÑO AUDITIVO

EN CONDICIONES NORMALES DE UTILIZACIÓN, EL OPERADOR DE ESTA MÁQUINA PUEDE ESTAR EXPUESTO A UN NIVEL DE RUIDO IGUAL O SUPERIOR A **85 dB (A)**

SAFETY FIRST!

⚠ WARNINGS ⚠
DOs and DO NOTS

WARNING: FAILURE TO COMPLY WITH THESE WARNINGS AND OPERATING INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS BODILY INJURY.

DO

- **DO** Read this entire operator's manual before operating this machine. Understand all warnings, instructions, and controls.
- **DO** keep all guards in place and in good condition.
- **DO** wear safety approved hearing, eye, head and respiratory protection.
- **DO** read and understand all warnings and instructions on the saw.
- **DO** read and understand the symbol definitions contained in this manual.
- **DO** keep all parts of your body away from the blade and all other moving parts.
- **DO** know how to stop the saw quickly in case of emergency.
- **DO** shut off the engine and allow it to cool before refueling.
- **DO** inspect the blade, flanges and shafts for damage before installing the blade.
- **DO** use only reinforced abrasive blades or steel center diamond blades manufactured for use on concrete saws.
- **DO** use only blades marked with a maximum operating speed greater than the blade shaft speed. Verify speed by checking bladeshaft RPM, pulley diameters and blade flange diameter.
- **DO** verify saw drive configuration by checking blade shaft RPM, pulley diameters, and blade flange diameter.
- **DO** read all safety materials and instructions that accompany any blade used with this saw.
- **DO** inspect each blade carefully before using it. If there are any signs of damage or unusual wear, **DO NOT USE THE BLADE.**
- **DO** mount the blade solidly and firmly, Wrench tighten the arbor nut.
- **DO** make sure the blade and flanges are clean and free of dirt and debris before mounting the blade on the saw.
- **DO** use the blade flange size shown for each blade size. Never use damaged or worn blade flanges.
- **DO** use the correct blade for the type of work being done. Check with blade manufacturer if you do not know if blade is correct.
- **DO** use caution and follow the instructions when loading and unloading the saw.
- **DO** operate this machine only in well ventilated areas.
- **DO** instruct bystanders on where to stand while the saw is in operation.
- **DO** establish a training program for all operators of this machine.
- **DO** clear the work area of unnecessary people. Never allow anyone to stand in front of or behind the blade while the engine is running.
- **DO** use caution when handling fuel.
- **DO** move the machine at least 10 feet (3 meters) from the fueling point before starting the engine and make sure the gas cap on the saw and the fuel can is properly tightened.
- **DO** make sure the blade is not contacting anything before starting the engine.
- **DO** use cautions when lifting and transporting this machine.
- **DO** lift only from the lift bail.
- **DO** always tie down machine when transporting.
- **DO** always operate this machine with the parking brake switch in the auto position.
- **DO** always check for buried electrical cables before sawing. If unsure, contact the local utilities.

SAFETY FIRST!

⚠ WARNINGS ⚠
DOs and DO NOTS

WARNING: FAILURE TO COMPLY WITH THESE WARNINGS AND OPERATING INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS BODILY INJURY.

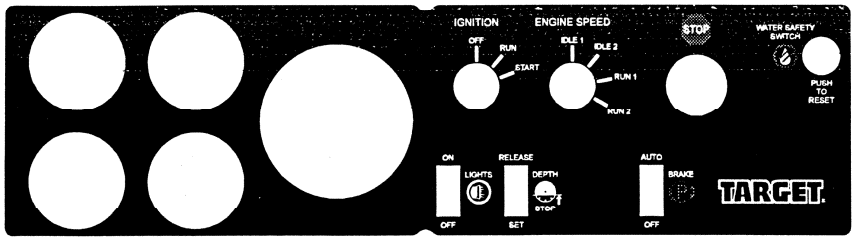
DO NOT

DO NOT operate this machine unless you have read and understood this operator's manual.
DO NOT operate this machine without the blade guard, or other protective guards in place.
DO NOT stand behind or in front of the blade path while the engine is running.
DO NOT leave this machine unattended while the engine is running.
DO NOT work on this machine while the engine is running.
DO NOT operate this machine when you are tired or fatigued.
DO NOT use a wet blade without adequate water supply to the blade.
DO NOT exceed maximum blade speed shown for each blade size. Excessive speed could result in blade breakage.
DO NOT use damaged equipment or blades.
DO NOT touch or try to stop a moving blade with your hand.
DO NOT cock, jam, wedge or twist the blade in a cut.
DO NOT transport a cutting machine with the blade mounted on the machine.
DO NOT use a blade that has been dropped.
DO NOT touch a dry cutting diamond blade immediately after use. These blades require several minutes to cool after each cut.
DO NOT use damaged or worn blade flanges.
DO NOT allow other persons to be near the machine when starting, refueling, or when the saw is in operation.
DO NOT operate this machine in an enclosed area unless it is properly vented.
DO NOT operate this machine in the vicinity of anything that is flammable. Sparks could cause a fire or an explosion.
DO NOT allow blade exposure from the guard to be more than 180 degrees.
DO NOT operate this machine while using drugs or alcohol.
DO NOT operate this machine with the engine hood removed.
DO NOT operate this machine with the transmission guard removed.
DO NOT use tie down brackets for lifting this machine.
DO NOT tow this machine behind a vehicle.

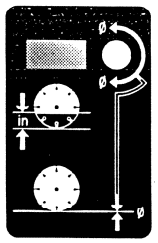
****

This saw was designed for certain applications only. DO NOT modify this saw or use for any application other than for which is it was designed. If you have any questions relative to its application, DO NOT use the saw until you have written Diamant Boart, Inc.and we have advised you.

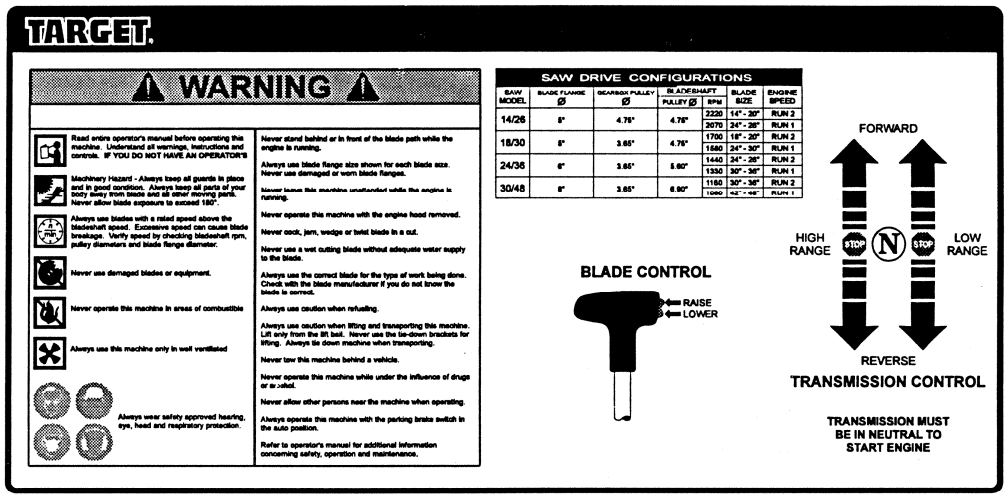
Diamant Boart, Inc.
4320 Clary Boulevard
Kansas City, MO 64130



INSTRUMENT PANEL
P/N 166619

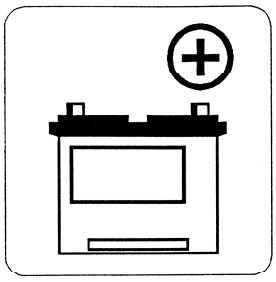


DEPTH INDICATOR PANEL
P/N 166766



OPERATING INSTRUCTIONS TOP OF COWL
P/N 166650

REAR OF COWL ABOVE OPENING TO TRANSMISSION
TOP OF FRAME, BOTH SIDES OF ENGINE BY LIFT BAIL MOUNT.
P/N 176223 (QUANTITY 3)



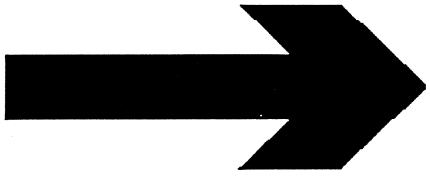
POSITIVE BATTERY TERMINAL
LEFT FRONT OF COWL
P/N 166668

TOP OF COWL BY FUEL FILL NECK
P/N 166648

REAR OF COWL ABOVE OPENING TO TRANSMISSION
P/N 166853

TOP OF BLADE GUARD
P/N 046128

TOP OF FRAME BETWEEN BLADESHAFT BEARINGS
P/N 166669



BLADE ROTATION DIRECTION
TOP OF BLADE GUARD
P/N 167289

QUANTA SPECIFICATIONS

MODEL NO	14/26	18/30	24/36	30/48
ITEM NO - GAS	C11001	C11002	C11003	C11004
BLADE GUARD SIZE	26" (650mm)	30" (750mm)	36" (900mm)	48" (1200mm)
BLADE SIZES	14"-26" 350mm-650mm	18"-30" 450mm-750mm	24"-36" 600mm-900mm	30"-48" 750mm-1200mm
BLADESHAFT RPM	2220/2070	1700/1580	1440/1330	1160/1080
MAX DEPTH OF CUT	10.5" (26.6cm)	12.5" (31.7cm)	15" (38.1cm)	20" (50.8cm)
BLADE FLANGE DIA.	5" (127mm)	5" (127mm)	6" (152.4mm)	8" (203.2mm)
BLADESHAFT	Stainless steel QDS, 1.75" (44.4mm)dia. with 1" (25.4mm) dia. arbor, left and right hand side			
BLADESHAFT BEARINGS	Heavy Duty, self-aligning Quad-Sealed pillow block			
BLADESHAFT DRIVE	Dual, 8-Groove, Banded, 3VX V-Belts (16 grooves total)			
BLADE CONTROL	Selective sawing system, electro-hydraulic raise/lower on control handle, easy depth stop, digital depth indicator			
AXLE DIA.	Front - 1.5"(38.1mm), Rear - 1.25"(31.8mm)			
WHEEL SIZE	Front - 8" (203mm) x 3" (76mm) x 1" (25.4mm) [9" (228mm) on model 30/48] with sealed bearings, solid polyurethane Rear - 10" (254mm) x 3" (76mm) x 1.25" (31.7mm), solid rubber			
DRIVE TRAIN	Hydrostatic transmission with 2 speed gearbox and single chain final drive, neutral and neutral safety start switch, parking brake, single control handle for high/neutral/low and forward/stop/reverse			
MAX GROUND SPEED	Low - 145 fpm (43.5 mpm) forward and reverse High - 290 fpm (87 mpm) forward, 220 fpm (66mpm) reverse			
CHASSIS	Heavy-duty, rigid, box and channel section construction			
WEIGHT UNCRATED	≅1700lbs	≅1825lbs	≅1900lbs	≅2050lbs

POWER SOURCE

ENGINE	Liquid - Cooled Continental Gas
MODEL	TM27
HORSEPOWER	72 @ 3000 RPM
DISPLACEMENT	164.8 cu in (2.7 ℓ)
BORE	3.58" (91mm)
STROKE	4.06" (103.2mm)
CYLINDERS	4
FUEL CAPACITY	12 Gal (45.4 ℓ)
OIL CAPACITY	7 Qt (6.3 ℓ)
COOLANT CAPACITY	3 Gal (11.4 ℓ)
AIR FILTER	6" (152.4mm) RADIAL SEAL with safety element, restriction indicator and clean air zone intake.

TABLE 1

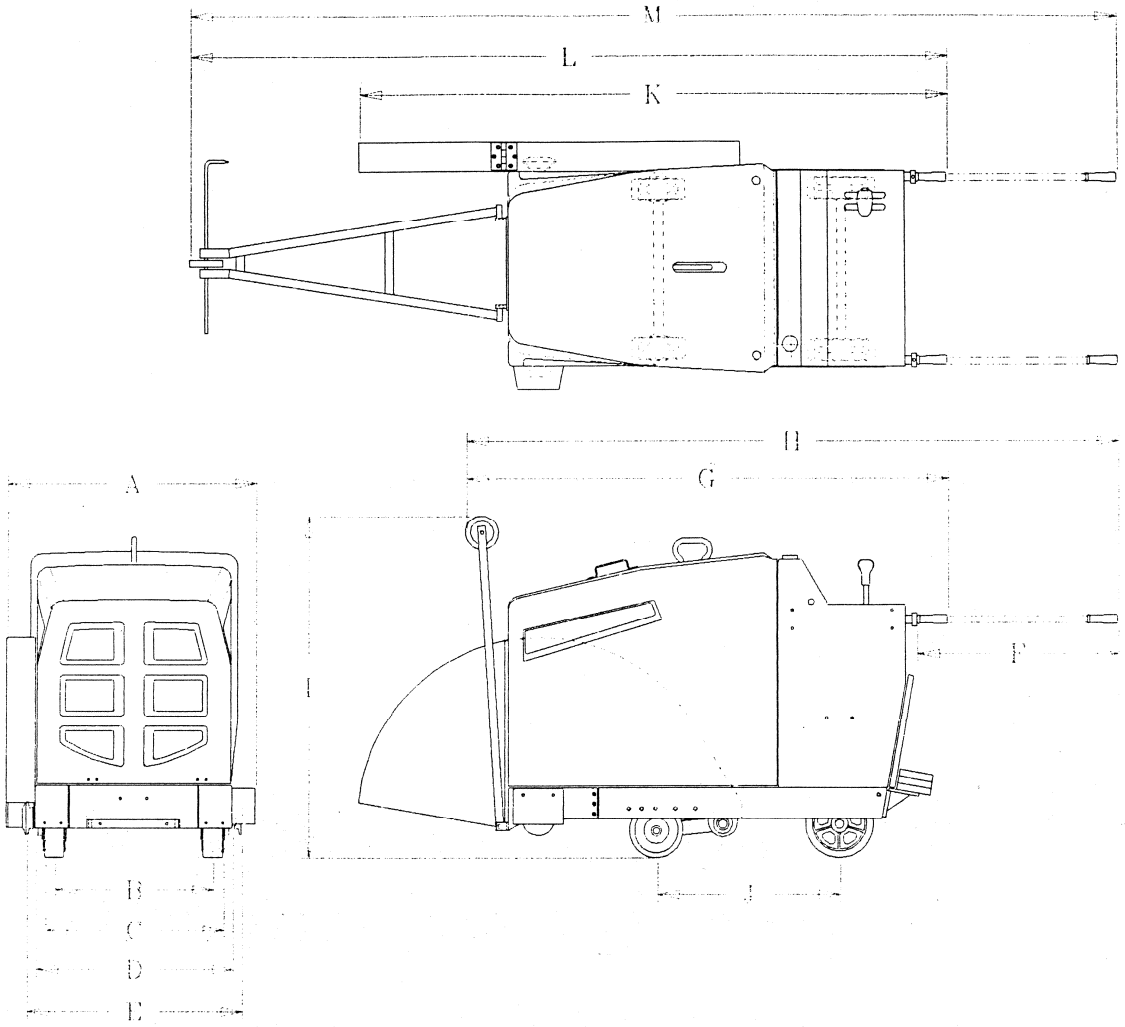
SAW DRIVE CONFIGURATIONS						
SAW MODEL	BLADE FLANGE Ø	GEARBOX PULLEY Ø	BLADESHAFT PULLEY Ø	BLADESHAFT RPM	BLADE SIZE	ENGINE SPEED
14/26	5"	4.75"	4.75"	2220	14" - 20"	RUN 2
				2070	24" - 26"	RUN 1
18/30	5"	3.65"	4.75"	1700	18" - 20"	RUN 2
				1580	24" - 30"	RUN 1
24/36	6"	3.65"	5.60"	1440	24" - 26"	RUN 2
				1330	30" - 36"	RUN 1
30/48	8"	3.65"	6.90"	1160	30" - 36"	RUN 2
				1080	42" - 48"	RUN 1

Refer to Section 14, pages 25-26, "Engine Speed Adjustment" for more information concerning drive configurations.

QUANTA

SAW DIMENSIONS

w/ 48" GUARD



ITEM	DESCRIPTION	LENGTH
A	Saw Width	37-3/8"
B	Center to Center Wheel Width (Track) - FRONT Center to Center Wheel Width (Track) - REAR	23-3/4" 24-1/4"
C	Outside to Outside Wheel Width - FRONT Outside to Outside Wheel Width - REAR	26-3/4" 27-1/4"
D	Frame Width	29-1/2"
E	Inner Flange to Inner Flange Width	32-1/4"
F	Handle Extension	30"
G	Minimum Saw Length (Handles In, Pointer Up, Guard Up)	72"
H	Saw Length (Pointer Up, Handles Extended)	97-1/2"
I	Maximum Overall Height (Pointer Up)	51-1/8"
J	Wheel Base	27-3/8"
K	Guard to Handle Length (Handles In)	88"
L	Maximum Overall Length (Handles In)	113-3/8"
M	Maximum Overall Length (Handles Extended)	138-7/8"

PRE OPERATION CHECKLIST

Before leaving our factory, every machine is thoroughly tested. Follow our instructions strictly and your machine will give you long service in normal operating conditions.

Before starting up the machine, make sure you read this entire operations manual and are familiar with the operation of the machine.

WITH MACHINE COLD AND SETTING LEVEL:

1. Check engine oil. Fill to full mark on dip stick with 10W30 oil.
2. Check engine coolant level in recovery tank. Fill to cold mark with 50/50 mix of water and anti-freeze.
3. Connect battery cables.

1 - 2 HOUR OPERATION CHECK LIST:

ALWAYS park machine on a level surface with the engine "OFF" and the ignition switch set in the "OFF" position before performing any maintenance. Let the machine cool down!!

1. Check the engine coolant hose clamps. Tighten as required.
2. Check the engine air cleaner hose clamps. Tighten as required.
3. Tension the blade drive V-belts. Tension right and left side evenly. DO NOT over tension!!
4. Check the transmission drive chain. DO NOT over tighten!!
5. Check for any leaks.

SCHEDULED MAINTENANCE QUICK REFERENCE:

Before performing any maintenance, ALWAYS park the machine on a level surface with the engine "OFF" and the ignition switch set in the "OFF" position.

SERVICE DAILY:
1. Check engine oil level.
2. Check blade guard for damage.
3. Check engine coolant level
4. Check air cleaner restriction indicator.

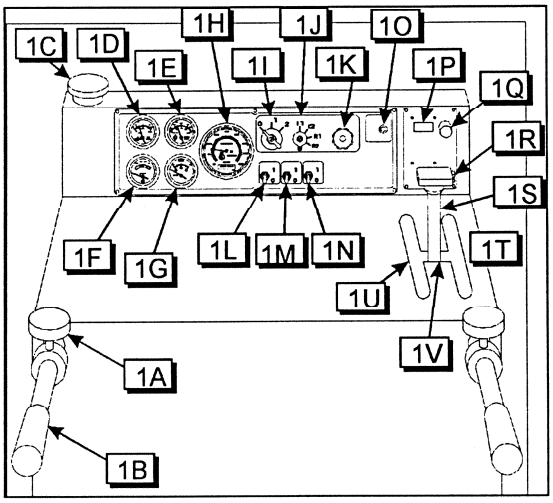
SERVICE EVERY 50 HOURS:
1. Replace engine oil and filter.
2. Clean radiator filter.
3. Lube front wheel bearings.
4. Lube rear axle bearings.
5. Lube hydraulic cylinder pivot pin.
6. Replace hydraulic system fluid and filter. (First 50 hours only) Check fluid level every 50 hours.
7. Check blade drive V-belt tension.

SERVICE EVERY 100 HOURS:
1. Lube front axle pivot bearings.
2. Check wheels for wear or damage.
3. Check transmission drive chain and sprockets for looseness.

SERVICE EVERY 250 HOURS:
1. Lube bladeshaft bearings.
2. Replace hydraulic system filter.

SERVICE EVERY 500 HOURS:
1. Replace engine coolant.
2. Replace engine gearbox fluid.
3. Replace hydraulic system fluid and filter

FIGURE 1



1A. KNOB: Use to tighten operator grip handles

1B. HANDLE BARS: For operator gripping.

1C. FUEL TANK FILL: Fill the fuel tank at this location.

1D. OIL PRESSURE GAUGE: Shows the engine oil pressure.

1E. WATER TEMPERATURE GAUGE: Shows the engine water temperature.

1F. VOLTAGE GAUGE: Shows the voltage of the electrical system.

1G. FUEL GAUGE: Shows the level of fuel in the fuel tank.

1H. ENGINE TACHOMETER: Shows the engine RPM's.

1I. ENGINE START SWITCH: Start the engine using this switch.

1J. ENGINE SPEED SWITCH: Use to select the proper engine / blade shaft speed for a particular diameter diamond blade installed on the machine.

1K. RED PALM SWITCH: For **EMERGENCY STOP** of the saw. Stops all systems except lights and engages parking brake.

1L. LIGHT SWITCH: Controls the lights for the gauges.

1M. BLADE DEPTH STOP SWITCH: Used to set the **depth stop for repetitive cuts at the same depth.**

1N. PARKING BRAKE SWITCH:
AUTO POSITION - With the engine start switch in the "RUN" position, the brake is automatically engaged when the transmission is shifted into neutral and automatically disengaged when the transmission is shifted into low or high range.
"OFF" POSITION - With the engine start switch in the "RUN" position, the brake is disengaged to allow the machine to be pushed.
Anytime the engine start switch is in the "OFF" position, the parking brake is engaged.

1O. WATER SAFETY SWITCH: Stops the engine, if the water supply to the blade is cut off or interrupted.

1P. BLADE DEPTH INDICATOR: Displays cutting depth in inches.

1Q. DEPTH INDICATOR KNOB: Use to "Zero" the Blade Depth Indicator.

1R. RED BUTTON: Located on speed control lever. Use to raise and lower the saw. Press the upper part of the button to raise saw upward. Press the lower part of the button to lower the saw.

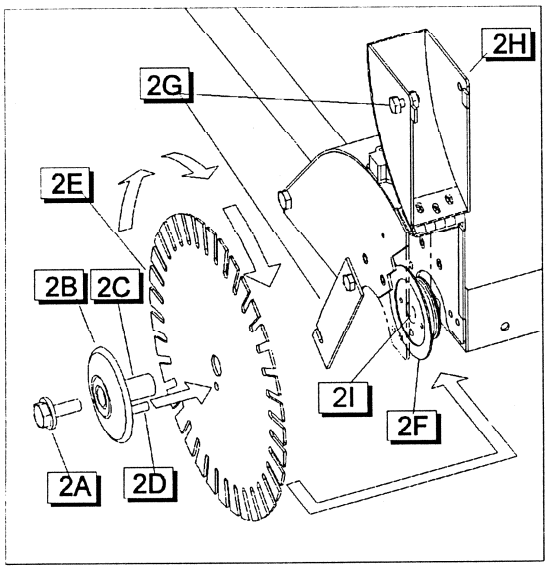
1S. SPEED CONTROL LEVER: Controls forward and reverse directions, stop, and the speed of the saw. Also shifts the transmission from low / neutral / high.

1T. LOW RANGE TRAVEL SPEED: This is the low (slow) range for the travel speed of the saw.

1U. HIGH RANGE TRAVEL SPEED: This is the high (fast) range for the travel speed of the saw.

1V. NEUTRAL POSITION: The saw will stop travel movement when the speed control lever (1S) is in this position. The engine will not start unless the speed control lever (1S) is in the NEUTRAL position.

FIGURE 2



2A. BLADE SHAFT BOLT: Use to tighten the outer flange against the diamond blade.

2B. OUTER FLANGE: Use to hold the diamond blade in position.

2C. OUTER FLANGE ARBOR: Use to support the diamond blade.

2D. LOCKING PIN: Use to prevent the diamond blade from rotating on the shaft during operation.

2E. DIAMOND BLADE: Use as the cutting tool for concrete and asphalt surfaces.

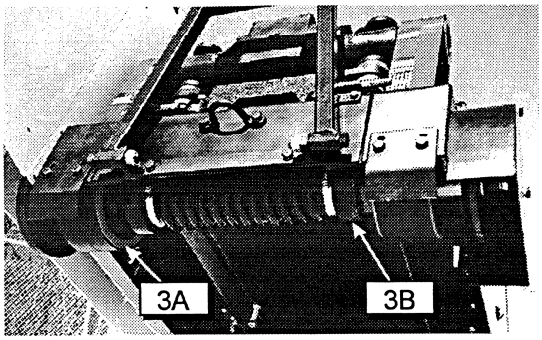
2F. INNER FLANGE: Inside support used to hold the diamond blade in position.

2G. BLADE GUARD NOSE LATCH: Use to latch the front of the blade guard in the down position.

2H. BLADE GUARD FRONT: The front section of the blade guard.

2I. BLADE SHAFT: Supports the blade flanges and blade.

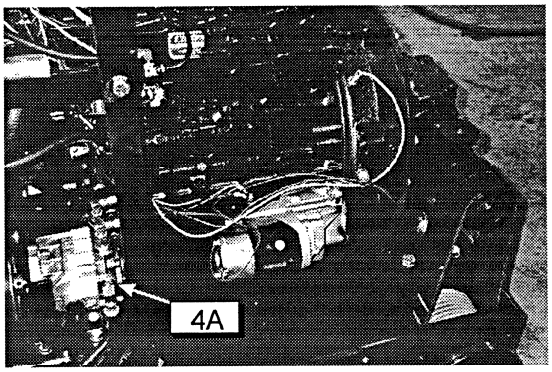
FIGURE 3



3A. BLADE SHAFT PULLEY

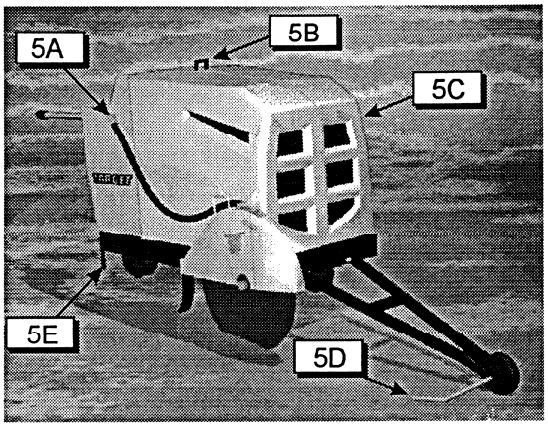
3B. BLADE SHAFT BEARINGS

FIGURE 4



4A. HYDROSTATIC PUMP: For the self-propelling system.

FIGURE 5



5A. WATER VALVE: Use to control the water supply to the diamond blade.

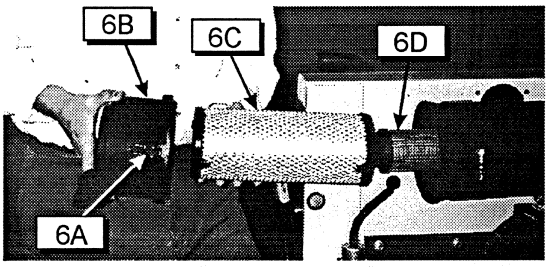
5B. LIFTING BAIL: The saw can be lifted from this point.

5C. ENGINE HOOD: Protects engine, guards, drives, and reduces noise.

5D. FRONT GUIDE: Use to locate the path of the diamond blade on the cutting line.

5E. REAR GUIDE: Use to locate the path of the diamond blade on the cutting line.

FIGURE 6



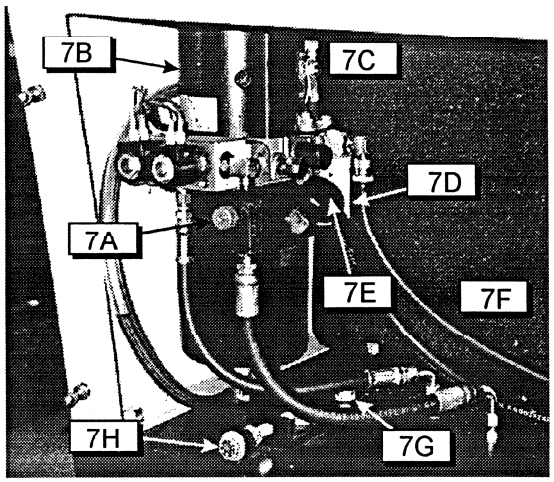
6A. AIR FILTER HOUSING CLAMP

6B. AIR FILTER HOUSING

6C. AIR FILTER OUTER ELEMENT: Clean this filter (or replace) when the restriction indicator shows the RED warning indicator.

6D. AIR FILTER INNER (SAFETY) ELEMENT: DO NOT CLEAN this filter element. Replace one time per year or if it becomes damaged.

FIGURE 7



7A. FLOW CONTROL VALVE: Controls lowering rate of the saw.

7B. D.C. LIFT PUMP: Raises and lowers the saw.

7C. RADIATOR AIR FILTER ELEMENT: Protects the radiator fins from dust and slurry.

7D. HYDRAULIC FILTER: Filters hydraulic system fluid.

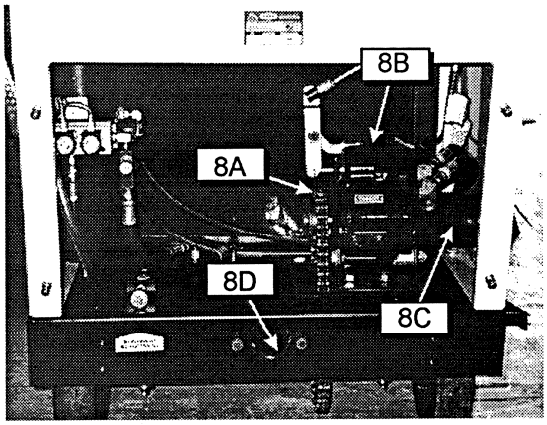
7E. HYDRAULIC RESERVOIR FILL: Fill and check hydraulic system fluid here.

7F. RADIATOR: Engine cooling system.

7G. BEARING MOUNTING BOLTS: Mount rear axle bearing.

7H. ADJUSTMENT BOLT: Use to adjust the rear axle for straight line sawing.

FIGURE 8



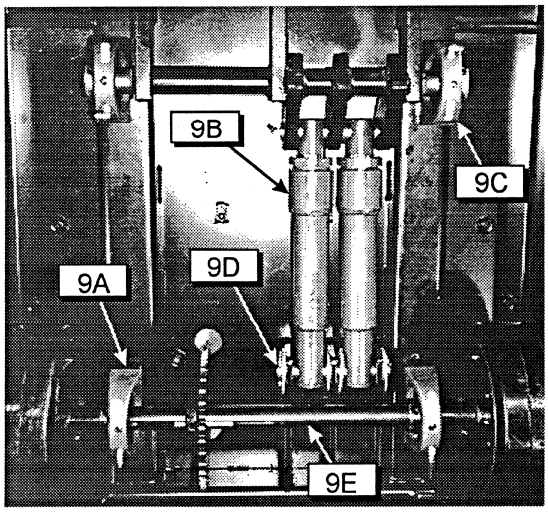
8A. DRIVE CHAIN: Transmits power from the transmission to the rear axle.

8B. TRANSMISSION GEARBOX:

8C. HYDRAULIC MOTOR:

8D. TIEDOWN LUGS: Used to tie the saw down while transporting by vehicle. Not to be used to lift the saw.

FIGURE 9



9A. REAR AXLE BEARINGS:

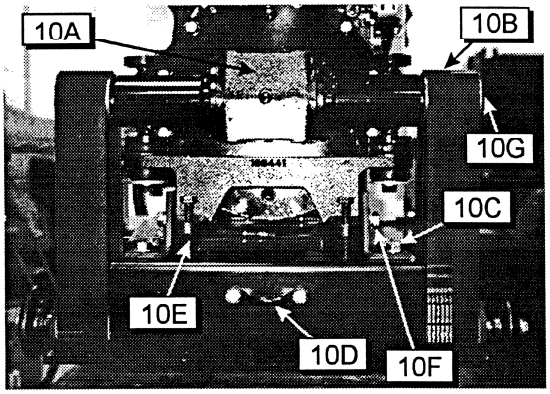
9B. HYDRAULIC LIFT CYLINDER:

9C. FRONT AXLE PIVOT BEARINGS:

9D. PIVOT PIN:

9E. REAR AXLE:

FIGURE 10



10A. ENGINE GEARBOX:

10B. V-BELTS:

10C. HOLE PLUG:

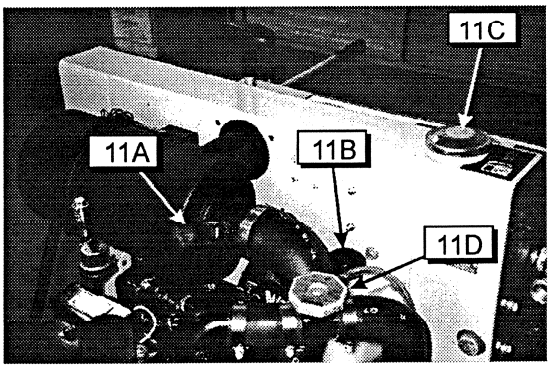
10D. TIEDOWN LUGS: Used to tie the saw down while transporting by vehicle. Not to be used to lift the saw

10E. BELT TENSIONING BOLTS:

10F. HORIZONTAL CLAMPING BOLTS

10G. GEARBOX PULLEY

FIGURE 11



11A. RESTRICTION INDICATOR: The outer air filter element needs to be changed (or cleaned) when this indicator pops upward with a RED warning indicator.

11B. COOLANT RECOVERY TANK:

11C. ENGINE FUEL CAP

11D. COOLING SYSTEM CAP:

MANDATORY

INDICATION
INFORMATION
INSTRUCTION

WARNING

PROHIBITION

These signs will give advice for your safety

Before leaving our factory every machine is thoroughly tested.

Follow our instructions strictly and your machine will give you long service in normal operating conditions.

1 Uses

Use: Wet sawing of old and new concrete and asphalt.

Tools: Diamond blades -- water cooled, Ø: 14", 18", 20", 24", 26", 30", 36", 42" and 48" bore Ø- 1"
(For information, contact your Target supplier)

Depths of Cut (Maximum):

4.50" with Ø 14"	12.00" with Ø 30"
6.50" with Ø 18"	15.00" with Ø 36"
7.50" with Ø 20"	17.00" with Ø 42"
9.50" with Ø 24"	20.00" with Ø 48"
10.50" with Ø 26"	

Before starting up the machine, make sure you read this entire manual and are familiar with the operation of this machine.

The working area must be completely clear, well lit and all safety hazards removed

The operator must wear protective clothing appropriate to the work he is doing.

Any persons not involved in the work should leave the area.

Use only blades marked with a maximum operating speed greater than the blade shaft speed.

2 Moving The Machine

(See Figure 1 and 2)

Set the handles to the desired length:

* Loosen **KNOB (1A)**, pull the **HANDLE BAR (1B)** in or out to desired length, then tighten the **KNOB (1A).**

Moving the saw with the engine off:

* Turn Engine Start Switch to the run position.
* Raise the saw by pressing the top side of the **RED BUTTON (1R)** on the **SPEED CONTROL LEVER (1S)** until the **DIAMOND BLADE (2E)** (if installed) clears the pavement surface.
* Put the **SPEED CONTROL LEVER (1S)** into the **NEUTRAL (1V)** position.
* Release the parking brake by turning the **PARKING BRAKE SWITCH (1N)** to the **OFF** position.
* The saw can now be moved by standing behind it and pushing [while holding the **HANDLE BARS (1B)**].

DO NOT attempt to push the saw while it is parked on a grade (or hill). The saw operator could lose control of the saw and cause injury to himself or other person(s) in the area. In an emergency push the emergency stop switch (1K). This will engage the parking brake.

Moving the saw with engine on:

* Raise the saw by pressing the top side of the **RED BUTTON (1R)** on **SPEED CONTROL LEVER (1S)** until **DIAMOND BLADE (2E)** (if installed) clears the pavement surface.
* Set the **PARKING BRAKE SWITCH (1N)** to the **AUTO** position.
* Press the **WATER SAFETY SWITCH (1O)** button. This will reset the water safety switch, if the water supply has been interrupted.
* **SPEED CONTROL LEVER (1S)** must be in the **NEUTRAL (1V)** position to start the saw. The engine **WILL NOT** start unless the **SPEED CONTROL LEVER (1S)** is in the **NEUTRAL (1V)** position.
* Turn the **ENGINE SPEED SWITCH (1J)** to the **IDLE 1** speed setting.
* Turn the **ENGINE START SWITCH (1I)** to the start position until the engine starts, then release the switch. It will return to **RUN** position. If the engine does not start, repeat these steps.
* Put the **CONTROL LEVER (1S)** into the **HIGH (1U)** or **LOW (1T) RANGE,** push the lever forward for FORWARD saw movement, or to the rear for REVERSE saw movement. The further you push the lever the faster the speed.

DO NOT attempt to start the saw while it is parked on a grade (or hill), unless the PARKING BRAKE SWITCH (1N) is in the AUTO position.

LOW RANGE travel speed (1T). To be used to propel the saw during deep or difficult cutting operations.

HIGH RANGE travel speed (1U). Use to propel the saw during shallow or easy cutting operations.

3 Transport (Blade Removed)

(See Fig. 1, 2, 5, 8 and 10)

SET PARKING BRAKE SWITCH (1N) TO AUTO POSITION.
REMOVE DIAMOND BLADE (2E) BEFORE TRANSPORT.

When moving the saw up and down ramps, with engine on, use extreme caution.

* To go **DOWN** a ramp drive the saw **FORWARD** slowly.
* To go **UP** a ramp, back the saw in **REVERSE** slowly.

Lifting the saw. The saw can only be lifted by the factory installed **LIFTING BAIL (5C).**

To Transport by vehicle:

* Set the **ENGINE START SWITCH (1I)** in the **OFF** position.
* Set **SPEED CONTROL LEVER (1S)** in the **NEUTRAL (1V)** position.
* Push **HANDLE BARS (1B)** inward and tighten **KNOBS (1A).**

Block the saw in place or secure it into place using the factory installed TIE DOWN LUGS (8D, 10D) to prevent movement during transport.

4 Check Before Starting

Take into account the working conditions from health and safety point of view.

* ***Fuel*** (Check the engine maintenance manual).
* Unleaded Gasoline is recommended.
* Check that the engine oil level is correct. Because the engine often operates at an angle, check the oil level (with engine horizontal) frequently to ensure that the oil level never falls below the lower mark on the dipstick. 10W30 oil is recommended.
* Check engine coolant level in the coolant recovery tank.
* For start up, refer to the engine manual.

5 Fitting The Blade

(See Fig. 1 and 2)

* Set the **ENGINE START SWITCH (1I)** to the **OFF** position.
* Raise the machine to a high position [by pressing the **RED BUTTON (1R)** on the **CONTROL LEVER (1S)** upward].
* Loosen the bolt on the **BLADE GUARD LATCH (2G).**
* Raise the front half of the **BLADE GUARD (2H).**
* Unscrew the **BLADE SHAFT BOLT (2A).** Remove **OUTER FLANGE (2B).**
* Fit **DIAMOND BLADE (2E)** to **OUTER FLANGE ARBOR (2C).**
* Install **OUTER FLANGE (2B)** into the **BLADE SHAFT (2I)** making sure that the **LOCKING PIN (2D)** passes through the **DIAMOND BLADE (2E)** and into the **INNER FLANGE (2F).**

Note the direction of rotation of the blade. The direction of rotation is shown by an arrow on both the DIAMOND BLADE (2E) and the BLADE GUARD (2H). Make sure that the contact surfaces on the DIAMOND BLADE (2E), INNER & OUTER FLANGES (2B & 2F) and BLADE ARBOR (2C) are clean.

* Rotate outer flange **(2B)** and blade **(2E)** in the opposite direction of blade rotation to remove backlash.
* Install and tighten **BLADE SHAFT BOLT (2A)** using the **BLADE SHAFT WRENCH** while firmly holding the **DIAMOND BLADE (2E).**
* Lower front half of **BLADE GUARD (2H)** and tighten the **BOLT (2G)** on the **BLADE GUARD LATCH (2G).**

The Blade Shaft Bolt (2A) on the Right Hand side has Left Hand threads. The Blade Shaft Bolt (2A) on the Left Hand side has Right Hand threads.

SLIP ON BLADE GUARDS ARE PROVIDED WITH A SAFETY LATCH WHICH ENGAGES THE SUPPORT SPADE AND A BOLT TO RETAIN THE REAR OF THE GUARD. DO NOT OPERATE THIS SAW WITHOUT THE LATCH ENGAGED AND THE BOLT INSTALLED.

INSPECT BLADE GUARDS AND LATCHES FREQUENTLY. DO NOT USE IF DAMAGED.

To remove a SLIP-ON GUARD:

* ***Using the BLADE SHAFT WRENCH remove the rear retaining bolt.***
* ***Slip the BLADESHAFT WRENCH between the guard and the engine hood onto the latch lever. Raise the lever to unlatch and lift guard off spade.***

To install a SLIP-ON GUARD:

* ***Lower guard onto spade until latch engages.***
* ***Install bolt in rear of guard using BLADE SHAFT WRENCH.***

6 Starting The Saw

(See Fig. 1, 2 and 5)

Always pay extreme care and attention to the preparation of the machine before starting.

Remove all wrenches and tools from the floor and the machine.

Always keep blade guard, engine hood and transmission guard in place.

* Follow the operating instructions and warnings on top of the saw cowl.
* Close the **WATER VALVE (5B).**
* Mark the surface to be cut by drawing a line where the cut is to be made.
* Pull out **HANDLE BARS (1B)** to desired length and tighten **KNOBS (1A).**
* Lower the **FRONT GUIDE (5E)** and align the **FRONT GUIDE (5E), REAR GUIDE (5G)** and **DIAMOND BLADE (2E)** with the line on the surface.
* To start the saw when no water pressure is present push the reset button on the **WATER SAFETY SWITCH (1O).**
* Set **SPEED CONTROL LEVER (1S)** to the **NEUTRAL (1V)** position. Saw will not start unless the **SPEED CONTROL LEVER (1S)** is in the **NEUTRAL (1V)** position.
* Start the engine using the **ENGINE START SWITCH (1I).** Follow the procedure in the engine manual.
* Let the engine warm up for several minutes with engine speed switch (E) set at the idle 1 position.
* When ready open the **WATER VALVE (5B).**

Test for adequate water supply. Low water flow will cause damage to diamond blades.

* Use the **ENGINE SPEED SWITCH (1I)** to set the engine to the proper **RUN** speed **(RUN 1 or RUN 2).**

See chart for the appropriate blade shaft and engine speeds for specific blade sizes.

* Move the saw forward or reverse slowly by pushing or pulling on the **SPEED CONTROL LEVER (1S)** into the **LOW RANGE (1T)** travel speed. Move the saw slowly to prevent stalling the blade. Make sure the **FRONT GUIDE (5E), REAR GUIDE (5G) and DIAMOND BLADE (2E)** stay on the line.
* Lower the saw by pressing the bottom side of the **RED BUTTON (1R)** on the **SPEED CONTROL LEVER (1S)** downward until the **DIAMOND BLADE (2E)** is at the desired cutting depth (See "Blade Cutting Depth Information--Below).

Be certain that water flow is abundant for wet sawing.

Blade Cutting Depth Information:

This saw is equipped with **a BLADE DEPTH INDICATOR (1P)** which indicates the depth (in inches) at which the **DIAMOND BLADE (2E)** is cutting. This saw also includes a **BLADE DEPTH STOP SWITCH (1M)** which stops the cutting depth of the blade at a specified depth. The **BLADE DEPTH STOP SWITCH (1M)** can be switched to the release position when it is not required.

Use of the **BLADE DEPTH INDICATOR (1P):**

* Turn the **ENGINE START SWITCH (1I)** to the **OFF** position to **STOP** the engine (If running).
* Turn the **ENGINE START SWITCH (1I)** to **the RUN** position to power the electrical system.
* Lower the **DIAMOND BLADE (2E)** by pushing the **RED BUTTON (1R)** on the **CONTROL LEVER (1S)** downward until the **DIAMOND BLADE (2E)** touches the surface to be cut.
* Rotate the **BLADE DEPTH INDICATOR KNOB (1Q)** To the left or right until the **BLADE DEPTH INDICATOR (1P)** reads zero **("0").** The blade cutting depth will now be indicated by positive numbers on **DEPTH INDICATOR (1P)** when the blade is lowered into the cutting surface.
* Raise the blade by pushing the top of **RED BUTTON (1R)** on the **SPEED CONTROL LEVER (1S)** upward until the **DIAMOND BLADE (2E)** is off of the cutting surface. The height of the blade above the pavement will now be indicated by negative (-) numbers on the depth indicator.

* Turn the **ENGINE START SWITCH (1T)** to **the OFF** position to turn off power to the electrical system.

Use of the **BLADE DEPTH STOP SWITCH (1M)** (with the engine running):

* Set the **BLADE DEPTH STOP SWITCH (1M)** to the **"RELEASE"** position to clear any previous cutting depth information.
* Lower the blade by pushing the **RED BUTTON (1R)** on the **SPEED CONTROL LEVER (1S)** downward until the **DIAMOND BLADE (2E)** is at the required depth [as indicated on the **BLADE DEPTH INDICATOR (1P)**].
* Set the **BLADE DEPTH STOP SWITCH (1M)** to the "SET" position. Now the maximum cutting depth is set. If the saw is raised out of the cut surface for any reason it can now be lowered to this specified depth by lowering the blade into the cutting surface with the **RED BUTTON (1R)** on the **CONTROL LEVER (1S)**.

The saw WILL NOT lower to any depth *greater than the position set on the BLADE DEPTH STOP SWITCH (1M) Therefore, if a deeper cut is required, the depth indicator switch MUST be turned to the "RELEASE" position, then SET to the new depth required.*

7 Stopping The Saw

(See Fig. 1, 2 and 5)

For EMERGENCY STOP, press down the RED PALM SWITCH (1K) on the cowl. This will stop the engine and disconnect power to all electrical items except lights, the parking brake will engage. Reset the RED PALM SWITCH (1K) by turning the red button in the direction of the arrows (Clockwise) until it pops up, then restart engine.

* Move **The CONTROL LEVER (1S)** to the **NEUTRAL (1V)** position.
* Raise the **DIAMOND BLADE (2E)** out of the cut by pressing the **RED BUTTON (1R)** on the **CONTROL LEVER (1S)** upward until the **DIAMOND BLADE (2E)** clears the surface.
* Turn the **ENGINE SPEED SWITCH (1J)** to the **IDLE** position.
* Turn off the **WATER VALVE (5B).**
* **STOP** the engine by turning the **ENGINE START SWITCH (1I)** to the **OFF** position.

8 Incidents During Sawing

(See Fig. 1, 2 and 7)

If **ENGINE STOPS** during sawing, check the following:

* Engine out of fuel--Check **FUEL GAUGE (1G).**
* Lack of water signals the **WATER SAFETY SWITCH (1O)** to stop the engine. Press button **(1O)** to reset the switch, and then restart the engine.
* Excessively fast cutting speed will stall engine.
* **RED PALM EMERGENCY SWITCH (1K)** has been pressed down. Reset by turning red button until it pops upward.

If **DIAMOND BLADE (2E)** STOPS during sawing, check:

* Drive belt tension is inadequate.

SAW LOWERS TOO FAST:

* The lowering rate of the saw can be adjusted using the **FLOW CONTROL VALVE (7A)** at the rear or the saw. If the saw falls too quickly, turn the knob on the **FLOW CONTROL VALVE (7A)** CLOCKWISE until an adequate lowering rate is set.

If the **ENGINE or BLADE STALLS** for any reason, raise the blade completely from the cut, inspect the machine thoroughly before restarting the engine. When lowering the blade into a partial cut, align the blade exactly with the cut to prevent damage to the blade.

Entrust all repairs to your authorized dealer only.

9 Adjustments: Straight Line Sawing

(See Fig. 7 and 9)

While cutting, the saw may steer to the right from the required straight line marked on the cutting surface (if the **DIAMOND BLADE (2E)** is installed on the right hand side). If this occurs, the **REAR AXLE (9E)** of the saw can be pivoted to compensate for this situation.

* Loosen the two (2) 1/2"-13 UNC **BEARING MOUNTING BOLTS (7G)** on the **LEFT END** of the rear axle.
* The axle is adjusted by turning the M12 **ADJUSTMENT BOLT (7H)** located at the rear lower left of saw cowl.
* If the saw steers to the **RIGHT** while sawing, Turn the **ADJUSTMENT BOLT (7H)** COUNTER-CLOCKWISE.

* If the saw steers to the **LEFT** while sawing, Turn the **ADJUSTMENT BOLT (7H)** CLOCKWISE.
* Re-tighten the two (2) 1/2"-13 UNC **BEARING MOUNTING BOLTS.**

10 Maintenance

(See Fig. 3, 5, 6, 7, 8, 9, 10 and 11)

Before performing any maintenance, ALWAYS park the machine on a level surface with the Engine OFF and the Engine Start Switch in the "OFF" position.

After each use CLEAN the machine.

LUBRICATION:

ENGINE OIL: Check daily. Change engine **OIL** and **OIL FILTER** after every **50 HOURS** of operation. See engine manual for oil type to use. 10W30 is generally recommended. Capacity is 7 qts. with filter.

<u>Lubricate every 50 hours:</u>
- FRONT WHEEL BEARINGS
- REAR AXLE BEARINGS (9A)
- PIVOT PIN (9D) at front of hydraulic cylinder

<u>Lubricate every 100 hours:</u>
- FRONT AXLE PIVOT BEARINGS (9C)

<u>Lubricate every 250 hours:</u>
- **BLADE SHAFT BEARINGS (3C):** Use only a Premium Lithium 12 based grease conforming to NLG1 GRADE #2 consistency.
  1. Open the ENGINE HOOD (5D) and pivot it completely forward.
  2. Remove HOLE PLUG (10C) over BEARING GREASE FITTING 2 places.
  3. Using a grease gun, grease each fitting with 3-5 pumps of grease.

TRANSMISSION GEARBOX (8B): This unit is lubricated for the life of the unit, so no lubrication is required. If, for any reason, the unit does need to be refilled, capacity is 55 oz SAE 75W90 synthetic gear lubricant.

HYDRAULIC SYSTEM: Refer to section 12 Hydraulic System

ENGINE GEARBOX (10A):
* Change oil after every 500 hours of operation. Use SAE 75W90 synthetic gear lubricant. Capacity is 32 oz.

COOLING SYSTEM:

DO NOT open the COOLING SYSTEM CAP (11D) when the engine is hot! Hot fluid and gas could be expelled from the opening.

* Clean the **RADIATOR AIR FILTER ELEMENT (7C) every 50 hours or** when required, replace if damaged. Always keep **RADIATOR AIR FILTER ELEMENT (7C)** in place.
* Flush and clean **RADIATOR (7F)** & cooling system every 500 hours of operation. Fill the cooling system at the **COOLANT RECOVERY TANK (11B)** to the top mark when the engine is hot, using an approved anti-freeze compound containing a rust and corrosion inhibitor.
* A 50/50 mix of antifreeze and water is normally recommended. Capacity is 3 gallons.
* Check hoses and clamps for damage and looseness. Tighten or replace as required.

AIR FILTER :
* Clean the **AIR FILTER OUTER ELEMENT (6C)** when the **RESTRICTION INDICATOR (11A)** RED SIGNAL appears. **DO NOT** clean the **INNER SAFETY ELEMENT (6D)!**

To change or clean the air filter element:
* Remove the **AIR FILTER HOUSING (6B)** by opening the two (2) **AIR FILTER HOUSING CLAMPS (6A)**, and pulling the housing off.
* Pull the **AIR FILTER OUTER ELEMENT (6C)** out of the filter housing and replace, or clean by using low pressure compressed air [2.75 bar (40 psi - MAX)] from the inside out. **DO NOT** clean the filter element by tapping it on the ground or other objects, this will damage the filter element!
* Install **AIR FILTER OUTER ELEMENT (6C)** by pushing it into the housing.
* Install the **AIR FILTER HOUSING (6B)** and close the two (2) **AIR FILTER HOUSING CLAMPS (6A).**

The two (2) AIR FILTER HOUSING CLAMPS (6A) can NOT be closed unless the AIR FILTER OUTER ELEMENT (6C) is properly installed.

* Replace the **INNER SAFETY ELEMENT (6D)** once per year or if it becomes damaged.
* Replace any damaged filters or gaskets.
* Check air hose and clamps for damage or looseness. Tighten or replace as required.

DRIVE CHAIN AND SPROCKETS:

* Check for wear and looseness. Tighten as required.

Do not over tighten the DRIVE CHAIN (8A)! The correct tightness allows for some slack.

Store in a safe place out of reach of children. Remove all adjustment tools and wrenches. Store diamond tool in a safe place so it cannot be damaged.

11 Blade Shaft V-Belt Tension

(See Fig. 1, 5 and 10)

This saw is equipped with high tension banded V-belts. The belts are properly tensioned at the factory but after a few hours of operation they will stretch and become loose.

TO TENSION V-BELTS:

* Turn **ENGINE START SWITCH (1I)** to the **OFF** position.
* Open the **ENGINE HOOD (5D)** and pivot it completely forward.
* Using the bladeshaft wrench, loosen the horizontal **clamping bolts** (10F) at the front of the machine.
* Turn each of the two (2) vertical **TENSIONING BOLTS (10E)** [at the front of machine, below the **GEAR BOX (10A)**] CLOCKWISE until the **V-BELTS (10B)** are tight.
* Replace **V-BELTS (10B)** in complete sets only.

Never tension V-BELTS (10B) beyond the original factory tension. Loose V-Belts result in poor saw performance and short belt life.

12 Hydraulic System

(See Fig. 4, 7, 8 and 9)

The hydraulic system on this saw is used to RAISE / LOWER the **DIAMOND BLADE (2E)**, and to propel the saw FORWARD and REVERSE. The hydraulic system consists of a **HYDROSTATIC PUMP (4A), HYDRAULIC MOTOR (8C), HYDRAULIC FILTER (7D), DC LIFT PUMP (7B), HYDRAULIC OIL RESERVOIR (7E), FLOW CONTROL VALVE (7A)**, and **TWO (2) HYDRAULIC LIFT CYLINDERS (9B).**

* **HYDRAULIC FILTER (7D)** should be changed after the first 50 hours of operation, then every 250 hours of operation.
* Check **HYDRAULIC RESERVOIR (7E)** fluid level periodically. Maintain oil level with SAE 10W30 API CLASS SE,CC,CD motor oil. **DO NOT OVERFILL**, check oil level when saw is level.
* Change hydraulic fluid every 500 hours of operation. Fill **HYDRAULIC RESERVOIR (7E)** with approximately 2.5 quarts of SAE 10W30 API CLASS SE,CC,CD motor oil. **DO NOT OVERFILL**, check oil level when saw is level.
* The lowering rate of the saw can be adjusted using the **FLOW CONTROL VALVE (7A)** at the rear of the saw. If the saw falls too quickly, turn the knob on the **FLOW CONTROL VALVE (7A)** CLOCKWISE until an adequate lowering rate is set.

13 Important Advice

(See Fig. 2 and 10)

* Tighten loose nuts and bolts regularly, particularly after several hours of operation.
* Check **V-BELT (10B)** tension regularly. Re-tighten **V-BELTS (10B)** as necessary.
* Remove the **DIAMOND BLADE (2E)** for storage. Store it carefully.
* Check the water spray over the **DIAMOND BLADE (2E)** periodically.
* Tighten the **DIAMOND BLADE (2E)** firmly on the **BLADE ARBOR (2C).**
* Make sure the contact faces of **FLANGES (2B & 2F), DIAMOND BLADE (2E)**, and **BLADE SHAFT (2I)** are clean.

14 Engine Speed Adjustment

(See Fig. 1, 2 and 3)

Serious injury can occur to the operator or people in the work area if the rotational speed (n/min) of the DIAMOND BLADE (2E) exceeds the maximum speed (n/min) marked on the DIAMOND BLADE (2E).

Each QUANTA™ model, as delivered from the factory, is designed to operate with a specified range of blade sizes. [For example; A model 24/36 can operate with 24" - 36" blades. By switching the engine speed switch (1J) to the "RUN 1" position, the blade shaft speed is set to run 30" - 36" blades. By switching to the "RUN

2" position, the blade shaft speed is set to run 24" - 26" blades. Refer to Table 1, Page 13, for the specified range of blade sizes for each QUANTA™ model.] If a blade size outside the specified range of sizes for your model must be used, then the saw drive configuration must be changed. [For example: If changing from a small to a very large **DIAMOND BLADE (2E)** the **BLADE SHAFT PULLEYS (3A), GEARBOX PULLEYS (10G)** and the **BLADE SHAFT FLANGES (2B & 2F)** must be changed. For example: To change from a 14/26 drive to a 30/48 drive:

1. Change **GEARBOX PULLEY** from 4.75" DIA to 3.65".
2. Change **BLADESHAFT PULLEY** from 4.75" DIA to 6.90".
3. Change **BLADE FLANGES** from 5" to 8" DIA.
4. Change **BLADE GUARD** from 26" to 48".
5. Turn **ENGINE SPEED SWITCH (1J)** to RUN 1 position, for 42" - 48" blades OR to RUN 2 position, for 30" - 36" blades.

15 Accessories

BLADE GUARD CONVERSION KITS:
Use the proper size blade guard for the particular diamond blade size being operated. The following blade guards are available for these diamond blade sizes:

48" Guard - 30" - 48" Blades
36" Guard - 24" - 36' Blades
30" Guard - 18" - 30" Blades
26" Guard - 14" - 26" Blades

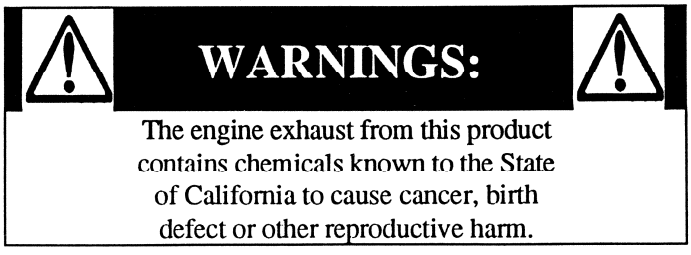
WEIGHT KIT:
A rear mounted **WEIGHT KIT** is available. It is standard equipment for units shipped with 48" blade guards. It can be purchased as an accessory for units with smaller blade guard sizes.

16 Repairs

Contact your authorized Target dealer concerning maintenance and repairs.

17 Spare Parts

For quick supply of spare parts and to avoid any lost time, it is essential to quote the data on the manufacturers plate fixed to the machine and the part description to be replaced with every order.


WARNINGS:
The engine exhaust from this product
contains chemicals known to the State
of California to cause cancer, birth
defect or other reproductive harm.