



OPERATIONS - PARTS MANUAL



APS20H

Concrete Saw

Manual Part #: 068353 | Revision: B

allen
ENGINEERING
CORPORATION
819 South 5th Street
Paragould, AR 72450

INTENTIONALLY BLANK

Concrete Saw

OPERATIONS - PARTS

MANUAL

This manual covers the products listed below:

<u>Part No.</u>	<u>Description</u>
061680	CONCRETE CUTTER 20" BLADE W/ ENGINE

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Allen Products are covered under one or more of the following patent numbers:

U.S. Design Patents: 344,736; 400,542; 400,544; 402,998; 402,999; 403,332; 404,041; 404,042; 410,931; 413,127; 416,564; 465,897; 466,909; 474,203.

U.S. Utility Patents: 5,108,220; 5,238,323; 5,328,295; 5,352,063; 5,405,216; 5,476,342; 5,480,257; 5,480,258; 5,533,831; 5,562,361; 5,567,075; 5,613,801; 5,658,089; 5,685,667; 5,803,658; 5,816,739; 5,816,740; 5,890,833; 5,934,823; 5,967,696; 5,988,938; 5,988,939; 6,019,433; 6,019,545; 6,048,130; 6,053,660; 6,089,786; 6,106,193; 6,857,815; 5,288,166; 6,582,153 B1, 7,108,449; 7,114,876; 7,316,523; 7,690,864 B2

Canadian Patents: 2,039,893.

First Issue: September 2014
Amended: February 2016
June, 2018, MN-067, M. Wesley

Printed in U.S.A.

Limited Warranty

Allen Engineering Corporation ("Allen") warrants its products to be free of defects in material or workmanship for:

TWO YEARS FROM END USER'S DATE OF PURCHASE

Warranty period begins on the date of purchase by the End User of the product. All warranty is based on the following limited warranty terms and conditions, including the disclaimer of implied warranties and consequential damages.

1. Allen's obligation and liability under this warranty is limited to repairing or replacing parts if, after Allen's inspection, there is determined to be a defect in material or workmanship. Allen reserves the choice to repair or replace.
2. If Allen chooses to replace the part, it will be at no cost to the customer and will be made available to the Allen Distributor, Dealer, or Rental Center from whom the End User purchased the product.
3. Replacement or repair parts, installed in the product, are warranted only for the remainder of warranty period of the product as though they were the original parts.
4. Allen does not warranty engines or batteries. Engine warranty claims should be made directly to an authorized factory service center for the particular engine manufacturer. Batteries are not warranted due to unknown treatment during transport, etc, and any battery claims should be directed to the battery manufacturer.
5. Allen's warranty does not cover the normal maintenance of products or its components (such as engine tuneups and oil & filter changes). The warranty also does not cover normal wear and tear items (such as belts and consumables).
6. Allen's warranty will be void if it is determined that the defect resulted from operator abuse, failure to perform normal maintenance on the product, modification to product, alterations or repairs made to the product without the written approval of Allen. Allen specifically excludes from warranty any damage to any trowels resulting from an impact to the rotors.
7. Impact damage to gear boxes is not covered under the Allen warranty and is deemed customer abuse.
8. Allen will pay shop labor on warranty items at the Allen Shop Labor Rate in existence on the date of the warranty claim. An Allen labor chart will determine the time allowed to complete a repair and will govern the shop labor hours that will be allowed.
9. Allen will pay freight on warranty replacement parts at worldwide standard ground rates. No warranty replacement parts will be shipped air freight at the expense of Allen. Allen only pays outbound freight charges when sending warranty replacement parts to the customer via ground service. Allen does not pay any inbound freight. However, if Allen determines this to be a warranted item, only then will Allen reimburse the customer for inbound freight at standard ground rates.
10. ALLEN ENGINEERING CORPORATION'S WARRANTY POLICY WILL NOT COVER THE FOLLOWING: TAXES; SHOP SUPPLIES; ENVIRONMENTAL SURCHARGES; AIR FREIGHT; TRAVEL TIME; LOSS OF TIME; INCONVENIENCE; LOSS OF RENTAL REVENUE; RENTAL COSTS OF EQUIPMENT USED TO REPLACE THE PRODUCT BEING REPAIRED; LOSS OF USE OF THE PRODUCT; COMMERCIAL LOSS; OR ANY OTHER CHARGES WHATSOEVER OR ANY LIABILITIES FOR DIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGE OR DELAY.
11. ALLEN ENGINEERING CORPORATION MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED. THIS LIMITED WARRANTY IS IN LIEU OF THE WARRANTY OF MERCHANTABILITY AND FITNESS. THERE ARE NO OTHER WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THIS DOCUMENT.
12. No Allen employee or representative is authorized to change this warranty in any way or grant any other warranty unless such change is made in writing and signed by an officer of Allen Engineering Corporation.

Table of Contents

Title	Page
Limited Warranty	4
Table of Contents	5
Information Contained In This Manual	7
Dealer Information	8
Ordering Parts	9
Section 1 - Safety	
Safety Information	10
Section 2 - Operations	
Machine Description	12
Pre-Start Checks	13
Start/Stop Procedure	13
Starting the Engine	14
Starting and Controlling the Cut	14
Operation	15
Section 3 - Service	
Service and Maintenance	16
Changing Blades	17
Maintenance	19
Troubleshooting	19
Technical Data	20
Transporation and Storage	21

Table of Contents - Continued

Title	Page
Section 4 - Parts	
Wheel Frame Assembly	22
Operation Control Panel Assembly	24
Blade Guard Assembly	26
Base Plate and Engine Assembly	28
Water Tank Assembly	30

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Information Contained in this Manual



This manual provides information and procedures to safely operate and maintain the Allen Machine.

For your own safety and protection from personal injury, carefully read, understand, and observe the safety instructions described in this manual. Keep this manual or a copy of it with the machine at all times.

Always operate this machine in accordance with the instructions described in this manual. A well maintained piece of equipment will provide many years of trouble free operation.

This manual is divided into the following sections:

**SECTION 1
SAFETY**

**SECTION 2
OPERATIONS**

**SECTION 3
SERVICE**

**SECTION 4
PARTS**

Complete any warranty requirements as specified by the engine manufacturer in their instructions found inside the manual box located on the operator's control panel.

Your engine is not manufactured by Allen Engineering Corporation, Inc, and therefore is not covered under Allen Engineering Corporation, Inc warranty.

Your engine manufacturer should be contacted if you wish to purchase a parts manual or a repair manual for your engine.

Refer to enclosed owners engine manual for complete O&M instructions. See your battery manufacturer for battery warranty.

Dealer Information

Your Dealer has Allen Engineering Corporation trained mechanics and original Allen replacement parts. Always contact the Allen Dealer who sold you this machine for Allen Certified repairs and replacement parts.

Place Allen Dealer information below for future reference.

Dealer Name: _____

Phone #: (____) - ____ - _____

Address: _____

City: _____ State: _____ Zip: _____

Salesman: _____ Mobile Phone _____

Additional Comments: _____



Ordering Parts

Section 4 contains illustrated parts lists for help in ordering replacement parts for your machine. Follow the instructions below when ordering parts to insure prompt and accurate delivery:

1. All orders for service parts - include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include correct description and part number from the "PARTS" section of this manual.
3. Specify exact shipping instructions, including the preferred routing and complete destination address.
4. DO NOT return parts to AEC without receiving written authorization from AEC. All authorized returns must be shipped pre-paid.
5. When placing an order, please contact the AEC dealer nearest you.



All information, specifications, and illustrations in this manual are subject to change without notice and are based on the latest information at the time of publication.

SECTION 1 SAFETY

Safety Information



This CAUTION sign indicates a potential hazard, which if ignored could result in injuries to the operator and/or those close by, as well as damaging the machine.



This WARNING sign indicates a potential hazard, which if ignored could result in the DEATH of the operator and/or those close by.

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the Vibratory Plate Compactor, consult your supervisor or ALLEN.



Improper maintenance can be hazardous. Read and understand this section before you perform any maintenance, service or repairs.

General Safety

- The owner of this machine must observe, and also train the user of the machine to observe, the effective labour protection laws in the country of application.
- This machine is to be used for its intended application only.
- This machine must only be operated by well-trained personnel.
- Personal Protective Equipment (PPE) must be worn by the operator whenever the equipment is being used.
- Cordon off the work area and keep members of the public and unauthorised personnel at a safe distance.
- Make sure you know how to safely switch this machine OFF before you switch it ON in case you run into any difficulties.
- Always switch OFF the engine before servicing it.
- During use, the engine becomes very hot. Always allow the engine to cool down before touching it.
- Never leave the engine running and unattended.
- Never remove or tamper with any fitted guards; they are there for your own protection. If they are damaged or missing, DO NOT USE THE MACHINE until the guard has been replaced or repaired.
- Never use a wet blade without an adequate supply of water to the blade.
- Never touch or try to stop a moving blade with your hand.
- Do not cut deeper than 2.5cm per pass with a dry blade.
- Never touch a dry diamond blade immediately after use. Blades require several minutes to cool the machine has been switched off.
- Always switch OFF the engine before transporting it, moving it around site or servicing it.
- Do not operate the machine when you are ill, feeling tired or when under the influence of alcohol or drugs.

- This machine is designed to eliminate the possible risks arising from the use of it. However, risks DO reside, and these residual risks are not clearly recognisable and may cause personal injury or property damage, and possibly death. If such unpredictable and unrecognisable risks become apparent, the machine must be stopped immediately, and operator or his supervisor must take appropriate measure to eliminate such risks. It is sometimes necessary that the manufacturer must be informed of such event for future counter measuring.

Fuel Safety



WARNING

Fuel is flammable. It may cause injury and property damage. Shut down the engine, extinguish all open flames and do not smoke while filling the fuel tank. Always wipe up any spilled fuel.

- Before re-fuelling, switch off the engine and allow it to cool.
- When re-fuelling, use a proper funnel, and avoid spilling over the engine.
- When re-fuelling, DO NOT smoke or allow naked flames in the area.
- Spilt fuel must be made safe immediately by using sand. If fuel is spilt on your clothes, change them.
- Store fuel in an approved, purpose made container away from heat and sources of ignition.

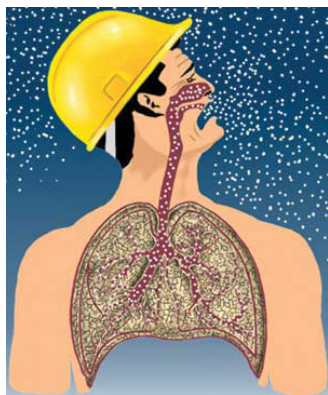


WARNING

The exhaust fumes produced by this machine are highly toxic and can kill!

Exhaust Fumes

Do not operate the Saw indoors or in confined spaces. Make sure the work area is adequately ventilated.



RESPIRATORY HAZARDS

Grinding/cutting/drilling of masonry, concrete, metal and other materials can generate dust, mists and fumes containing chemicals known to cause serious or fatal injury or illness, such as respiratory disease, cancer, birth defects or other reproductive harm. If you are unfamiliar with the risks associated with the particular process and/or material being cut or the composition of the tool being used, review the material safety data sheet and/or consult your employer, the material manufacturer/supplier, governmental agencies such as OSHA and NIOSH and other sources on hazardous materials. California and some other authorities, for instance, have published lists of substances known to cause cancer, reproductive toxicity, or other harmful effects.

Control dust, mist and fumes at the source where possible. In this regard use good work practices and follow the recommendations of the manufacturers or suppliers, OSHA/NIOSH, and occupational and trade associations. Water should be used for dust suppression when wet cutting is feasible. When the hazards from inhalation of dust, mists and fumes cannot be eliminated, the operator and any bystanders should always wear a respirator approved by NIOSH/MSHA for the materials being used.



SILICOSIS WARNING

Grinding/cutting/drilling of masonry, concrete, metal and other materials with silica in their composition may give off dust or mists containing crystalline silica. Silica is a basic component of sand, quartz, brick clay, granite and numerous other minerals and rocks. Repeated and/or substantial inhalation of airborne crystalline silica can cause serious or fatal respiratory diseases, including silicosis. In addition, California and some other authorities have listed respirable crystalline silica as a substance known to cause cancer. When cutting such materials, always follow the respiratory precautions mentioned above.

SECTION 2 OPERATIONS

Operations

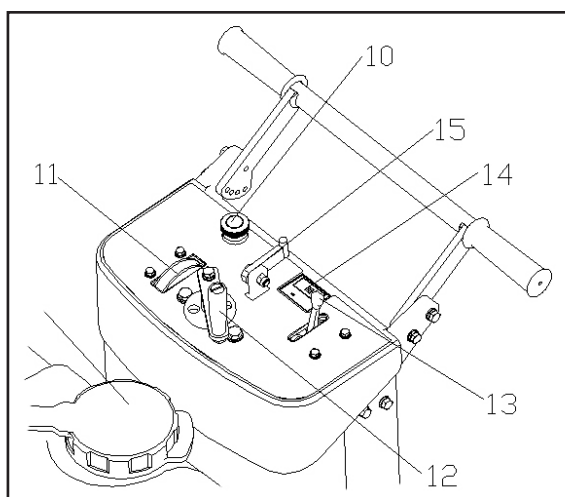
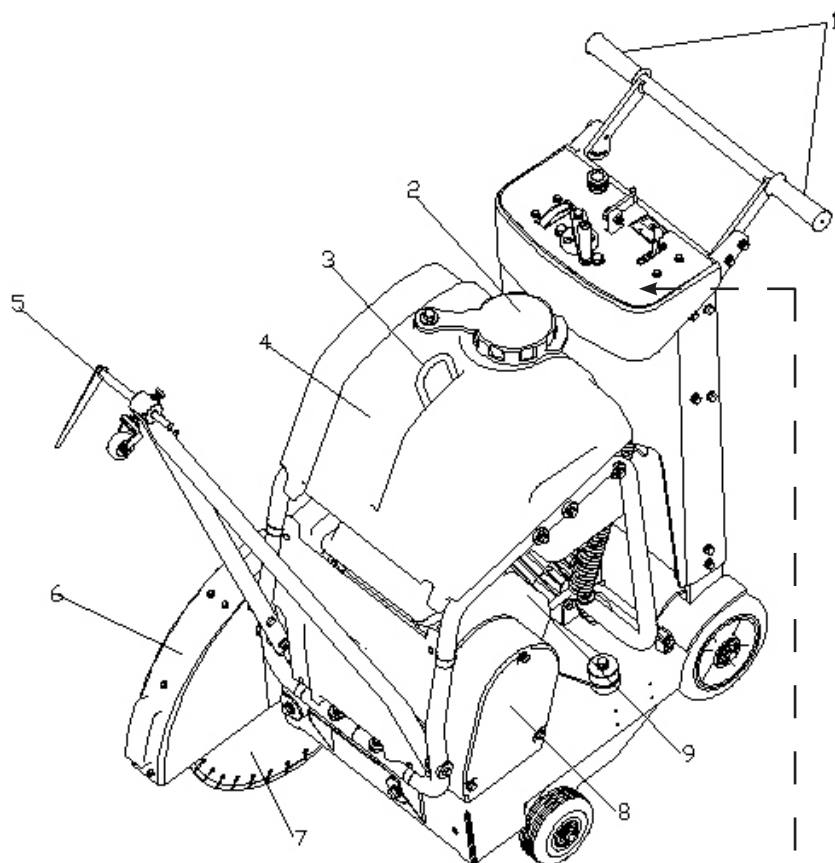
Machine Description

Intended Use

This walk-behind floor saw is intended to be used in the wet or dry sawing of old and new concrete and asphalt. Not to be used for dry cutting in the EU as it is not equipped with a dust port.

APS20H

1. Operation Handle
2. Water Tank Cap
3. Lifting Hook
4. Water Tank
5. Alignment Marker
6. Blade Guard
7. Blade
8. Belt Guard
9. Engine
10. Emergency Stop Button
11. Slot Depth Gauge
12. Slot Depth Control Hand Wheel
13. Throttle Lever
14. Tachometer (also with hour meter)
15. Locking Mechanism



Pre-start Checks

The following pre-start checks must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the Service and Maintenance section for detailed guidance. If any fault is discovered, the Plate Compactor must not be used until the fault is rectified.

1. Thoroughly inspect the machine for signs of damage. Make sure all guards are in place and secured.
2. Check hoses, filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
3. Check the engine oil level and top up as necessary. Use proper engine oil with the proper viscosity (SAE 10W-30 recommended).
4. Check the engine fuel level and top up as necessary. Use clean fuel. Use of contaminated fuel may damage the fuel system.
5. Check the air filter is clean. Excessive dirt/dust accumulation within the filter element will cause erratic engine operation. Clean the air filter element when it is contaminated. (See Service & Maintenance Section)
6. Check for fuel and oil leaks.

Start/Stop Procedure

Before starting the engine, make sure that the Safety Switch is in the ON position and the Throttle Lever is set to the idle position.

1. Verify the correct blades for the job have been chosen and that they are properly installed. Inspect the blades carefully for damage. Never use any questionable blades.
2. Check to be sure the blades are free of obstructions and the area is clear for operation.
3. Visually inspect the walk-behind floor saw. Check that all fasteners are secured and mechanical parts are in proper working order.

Before Starting Gasoline Engine

1. Check the oil in the engine crankcase. Be sure to maintain the proper level per the engine manufacturer specifications. If the oil is dirty and in need of changing, follow the Engine User Manual instructions.
2. Check the fuel supply. Refer to Engine User Manual.
3. Visually check to be sure that the blades are free of obstructions and the area is clear for operation.
4. Adjust the handles for operator comfort and safe operation. Be sure to re-tighten knobs once handles are positioned.
5. Be sure cutting line is well defined.
6. Move the saw into operating position.

SECTION 2 OPERATIONS

Operations (cont'd)

Starting the Engine

- Check to be sure blade is raised – not in contact with the slab surface and blade guards are in place.
- If wet cutting, open water valve for the sprinkler system. Check to be sure water flows freely to the blade. Water should be visible on the ground around the blade.
- Make sure you have an adequate supply of water.
- Open throttle and allow engine to reach operating speed.

Starting and Controlling the Cut

- Engine must be at FULL THROTTLE.
- When maneuvering the walk-behind floor saw, make sure the blade is raised high enough so it does not strike the ground. Blade damage may occur if the blade strikes the ground while maneuvering.
- Do not maneuver the machine on inclined surfaces with the manual push engaged, or by lifting drive wheels from the ground. Loss of braking control will cause the machine to freewheel down the incline.
- To move the Slot Depth Control Hand Wheel into place, slowly turn hand wheel in the DOWN direction until the blade comes in contact with the slab surface.
- Do not allow the blade to drop onto the pavement surface, blade damage will result.
- Set the Depth Gauge at ZERO.
- Continue turning the hand wheel until the blade has penetrated the slab to the desired depth.

NOTE: Depth Gauge is an approximate measurement – it is not exact.



Never cut deeper than the maximum depth of cut for the blade being used. Only cut in a forward direction. Always cut with the engine at full throttle.

- Machine speed is controlled by using the throttle lever.
- Actual cutting speed is determined by type of blade, material to be cut and depth of cut.
- Do not force the blade while cutting. Use proper forward speed and allow the blade to cut and not climb out of the cut or stall in the cut.

NOTE: If while cutting the front wheels start to lift, reduce forward speed.



For positioning the saw, the maximum forward speed is 60mm per minute. For safety reasons, when in reverse, move at a slow walking pace. DO NOT FORCE IT TO GO FASTER.

- Always cut in a straight line. Do not force a turn in the cutting line as blade warpage or breakage may result.

If the blade stalls in the cut and stops power source

- Raise the blade completely out of the cut.
- Check the blade flanges and nut/bolt, to be sure they are tight.
- Remove/open guard and secure.

To Stop Cutting

- Stop moving the machine forward.
- Raise the blade in the UP direction to be clear of the cut.
- Turn off the water valve.
- Return the Throttle Lever to the idle position and allow to cool
- Shut off the engine.
- Do not leave the machine until the blade has completely stopped.
- Make sure you choke the wheels to prevent the machine from rolling.

Parking the Walk-behind Floor Saw

The parking brake on the right-hand side rear wheel is designed to hold the machine on a slope of not more than 10 degrees with the rear wheels facing downhill (maximum weight should be on the braked wheels).

Engaging the Parking Brake

- Pull the lever toward the center of the machine and rotate upwards 180 degrees.

Disengaging the Parking Brake

- Pull the lever toward the center of the machine. Then rotate downwards 180 degrees and release to lock in position.

SECTION 3 SERVICE

Service

Service and Maintenance

The Allen Walk-behind Floor Saws are designed to give many years of trouble free operation. It is, however, important that the simple regular maintenance listed in this section is carried out. It is recommended that an approved Allen dealer carry out all major maintenance and repairs. Always use genuine Allen replacement parts, the use of spurious parts may void your warranty. Before any maintenance is carried out on the machine, switch off the engine and disconnect the HT lead from the spark plug. Always set the machine on level ground to ensure any fluid levels will be correctly read. Only use recommended oils.

Before Changing Blades



Inspect all blades carefully before installing. Check for cracks, loose segments and oversized, worn or out-of-round arbor holes. Do not use any questionable blades since serious injury and/or damage to property could result.

- Do not use warped, twisted, or out-of-balance blades.
- Unbalanced blades will wear excessively, vibrate and damage both arbor shaft and bearings.

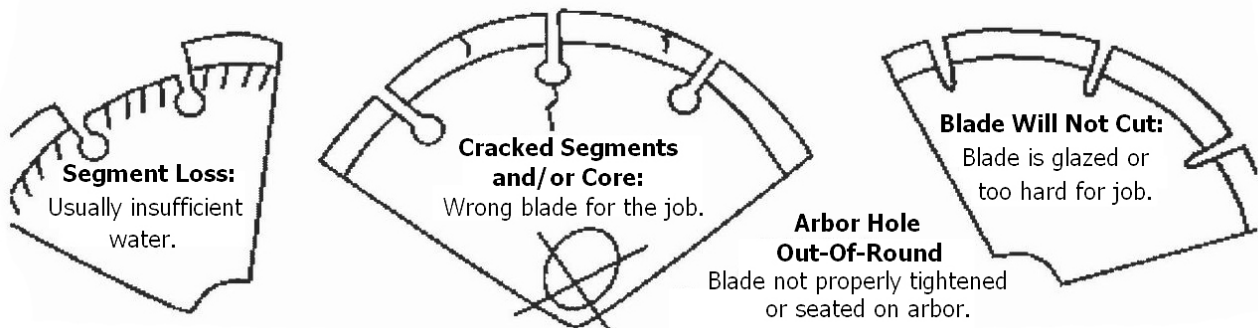


For safety reasons, Allen does not recommend the use of abrasive blades. Abrasive blades can break and cause serious personal injury to the operator and/or bystanders. If abrasive blades are used by choice, only use those which are marked as reinforced abrasive blades.

- Make sure you have the proper blade for the job. Determine the proper hardness and composition of the slab. Give your dealer complete information including the desired depth of the cut and the length of the cut. If in doubt, contact the blade manufacturer. Never exceed the maximum operating speed of the blade.



Do not remove or lift the blade guard unless the blade has stopped completely and the engine is off.

Possible Diamond Blade Problems**Changing Blades**

- a) Open front cover.
- b) Set engine start switch to the OFF position.
- c) Raise the blade to its highest position by turning the Slot Depth Control Hand Wheel counter-clockwise.
- d) Use a spanner to loosen and remove the 4 M8 bolts that fix the blade guard latch plate. Remove the blade guard latch plate.
- e) Lift up the blade guard front.
- f) Loosen and remove the blade shaft nut that secures the outer flange in position. Remove outer flange.
- g) Remove the old blade.
- h) Ensure the blade shaft arbor, inner flange and outer flange are clean and free of foreign objects. If they are not, clean them so that they are.
- i) Fit the new blade onto the shaft arbor. The direction of rotation should be shown by the arrows on the blade and blade guard front.
- j) Affix outer flange to the blade shaft arbor. Ensure that the locking pin passes through the blade and into the inner flange.
- k) Rotate the out flange and blade in the opposite direction of the blade rotation to remove the slack.
- l) Affix the blade shaft nut.
- m) Lower blade guard front.
- n) Re-affix and tighten blade guard latch plate.

SECTION 3 SERVICE

Service (cont'd)

Change Engine Oil Every 50 Hours of Operation (sooner if necessary)

Inspect Belts

- Remove the belt guard, then check the belt tension by placing light finger pressure on the top of the belt, as near as possible to the centre between the engine drive and gearbox pulley. The belt should deflect by between 7mm ~10mm.
- On new machines, after installation of new belts, adjust the belt tension after the first 4 hours, then as necessary.

To change the belts:

- Remove the belt guard and loosen screws on drive idler fixing plate, which will reduce the belt tension enabling the removal of the drive belt.
- Install the new belt and loosely tighten (the plate should still be able to move) the screws on the drive idler fixing plate.
- Using a spanner on the tightening screw, apply torque to the drive idler so that the drive idler is forced against the drive belt. Ideal torque is 50Nm. If you have no torque wrench then the belt should deflect around 7-8mm at its slackest point.
- Once the torque of the belt is set, tighten the centre slot bolt to hold the position of the idler and then tighten the remaining bolts.
- Re-affix the belt guard.

Water Tank

- Remove the water tank cap by turning counter-clockwise.
- Fill water tank with water only.
- Refit the cap by turning clockwise.



The flow of water from this machine is designed only to suppress airborne concrete dust and should therefore only be used with DRY cutting diamond blades.



Never fill the water tank with any flammable liquids or gasoline as serious injury or death could occur.

Routine Maintenance	Before Each Operation	Daily	Every 50 Hours of Operation	As required
Visual Inspection of Entire Machine	◆			
Inspect Blade	◆			
Inspect Arbor Shaft	◆			
Check Engine Oil	◆			
Clean Air Filter Element		◆		
Change Engine Oil (sooner if necessary)			◆	
Inspect Belts - tension after the first 4 hours, then...				◆

Troubleshooting

Problems	Possible Causes	Countermeasures
Engine will not start.	<ul style="list-style-type: none"> a. No fuel getting to engine. b. Engine switched off. c. Spark plug fouled. d. Engine cold. e. Honda Engine flooded. 	<ul style="list-style-type: none"> a. Open fuel tap. Fill fuel tank. b. Switch engine on. c. Clean, check and reset plug gap. d. Close choke. e. Open choke, fully open throttle, pull recoil starter until engine fires.
Blade not turning.	<ul style="list-style-type: none"> a. Belts incorrectly tensioned. b. Belts broken. 	<ul style="list-style-type: none"> a. Re-tension belts. b. Replace belts
Excessive noise, vibration or wobble from blade.	<ul style="list-style-type: none"> a. Check condition of arbor shaft bearings. b. Check Drive Pin for damage. c. Check tightness of arbor shaft nut. d. Check condition of blade flange. e. Check blade for signs of damage. 	<ul style="list-style-type: none"> a. Replace as necessary. b. Replace Drive Pin. c. Tighten as necessary. d. Replace as necessary. e. Replace blade.

SECTION 3 SERVICE

Technical Data

Model	APS20H
Dimension (LxWxH) - mm	1557 x 558 x 1080
Operating Weight - kg	158
Depth Adjustment	Handle Rotation
Driving Mechanism	Manual
Water Tank Capacity - ltr	26
Engine	Honda GX390
Engine Type	4 – Stroke Gasoline
Max. Power Output - Hp (kW)	13 (9.6)
Max. Engine Speed - rpm	3,600

Cutting Depth	
Size of Blade (mm)	Max. Cutting Depth (mm)
250	68
300	93
350	118
400	146
450	164
500	192

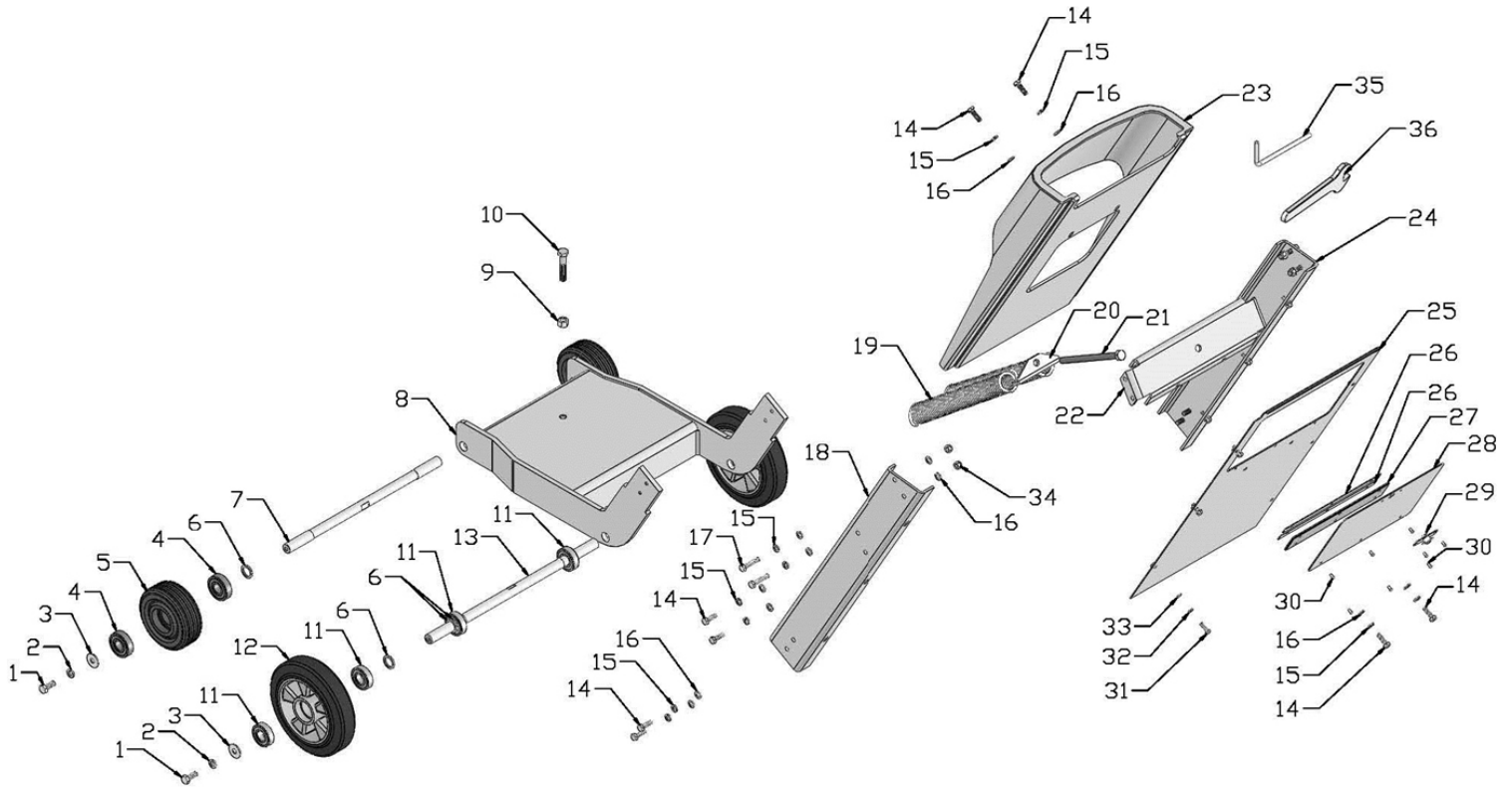


Extreme Care must be taken when transporting, loading or unloading this machine.

- For long-term storage, empty the fuel in the carburetor by running the engine with the fuel tap closed.
- The chemical composition of the fuel will deteriorate after prolonged storage. When the machine needs to be stored for a long time, remove all the fuel from the fuel tank and the water from the water tank. Also remove the fuel from the float chamber of the carburetor by draining the fuel out from the drain plug.
- Wash away asphalt/concrete accumulated on the walk-behind floor saw. Clean the engine mounting plate. Apply a light coat of oil on arbor shaft, blade retaining cap and backing plate to prevent rust formation. Cover the machine and store it in a dry place.
- Always use the lifting hook for hoisting purposes. Use proper hoisting equipment and techniques.
- Remove the blade before transporting or hoisting. Serious personal injury or damage to the equipment can result. Do not transport the machine with the engine running.
- Be certain the area surrounding the machine is clear of personnel before hoisting.

SECTION 4 PARTS

APS20H Wheel Frame Assembly Illustration



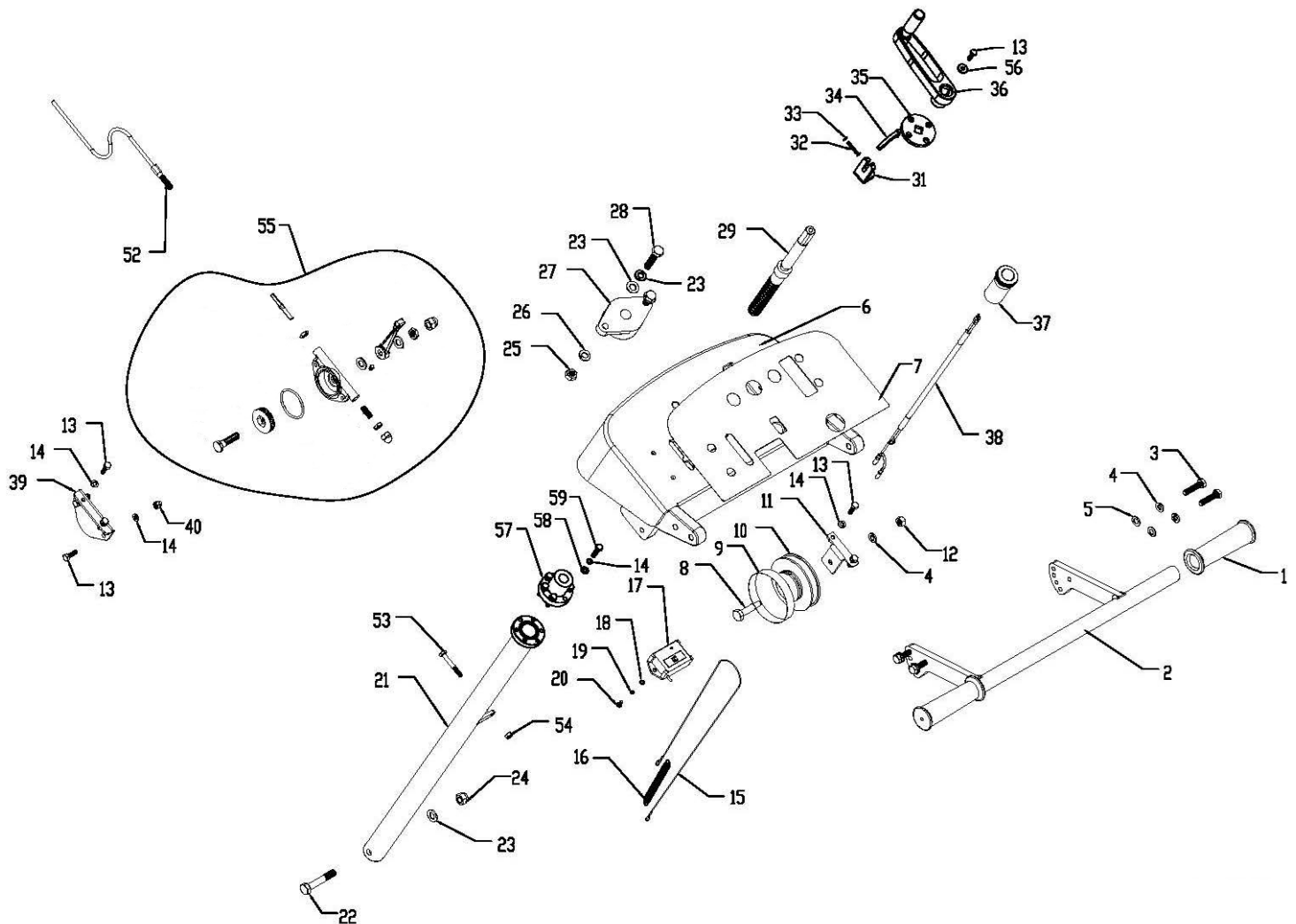
APS20H Wheel Frame Assembly Parts List

SECTION 4 PARTS

NO.	PART NO.	DESCRIPTION	QTY
01-1	063100	FSTN, HHCS M10x25-8.8-DIN-2	4
01-2	063101	FSTN, LW W10-DIN-2	4
01-3	063102	FSTN, FW W10-GB-2	4
01-4	063103	BEARING	4
01-5	063104	FRONT WHEEL	2
01-6	063105	WASHER	8
01-7	063106	FRONT WHEEL SHAFT	1
01-8	063107	WHEEL BRACKET	1
01-9	063108	FSTN, HEX NUT M12-DIN-2	1
01-10	063109	FSTN, HHCS M12x60-8.8-DIN-2	1
01-11	063110	BEARING	6
01-12	063111	REAR WHEEL	2
01-13	063112	REAR WHEEL SHAFT	1
01-14	063113	FSTN, HHCS M8x25-8.8-DIN-2	12
01-15	063114	FSTN, LW W8-DIN-2	16
01-16	063115	FSTN, FW W8-DIN-2	16
01-17	063116	FSTN, HHCS M8x30-8.8-DIN-2	4
01-18	063117	LEFT PLANK	1
01-19	063118	SPRING	2
01-20	063119	SPRING HOOK	1
01-21	063120	FSTN, HHCS M12x180-8.8-DIN-2	1
01-22	063121	PLANK	1
01-23	063122	INSIDE SUPPORT COVER	1
01-24	063123	RIGHT PLANK	1
01-25	063124	MAIN BODY PLANK	1
01-26	063125	PLANK	2
01-27	063126	RUBBER CONNECT PATCH	1
01-28	063127	COVER	1
01-29	063128	LOCK	1
01-30	063129	RIVET	8
01-31	063130	FSTN, HHCS M6x20-8.8-DIN-2	6
01-32	063131	FSTN, LW W6-DIN-2	6
01-33	063132	FSTN, FW W6-DIN-2	6
01-34	063133	FSTN, LOCK NUT M8-DIN-2	4
01-35	063134	LOCK PIN	1
01-36	063135	SPANNER	1

SECTION 4 PARTS

APS20H Operation Control Panel Assembly Illustration



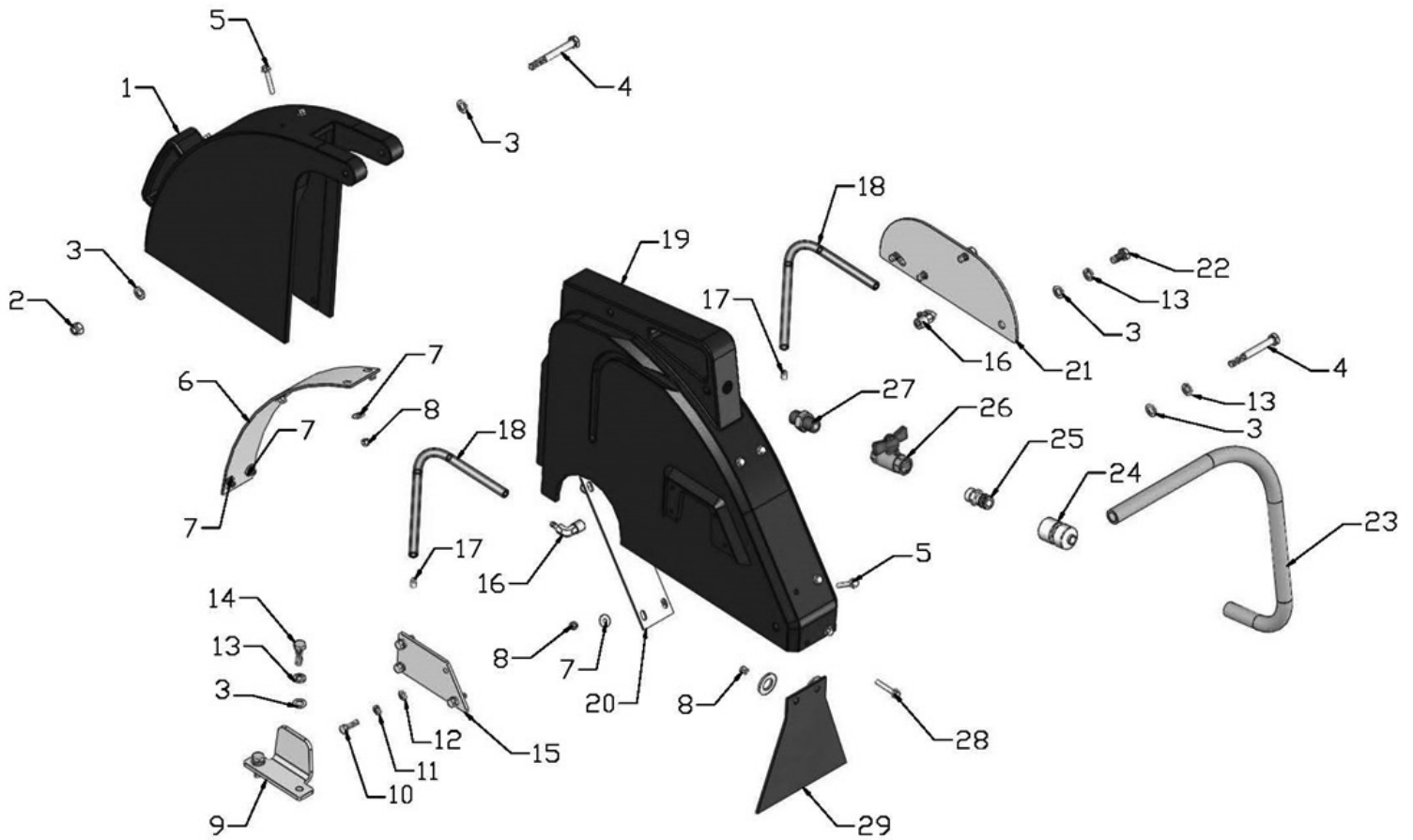
APS20H Operation Control Panel Assembly Parts List

SECTION 4 PARTS

NO.	PART NO.	DESCRIPTION	QTY
02-1	063136	HANDLE COVER	2
02-2	063137	HANDLE	1
02-3	063138	FSTN, HHCS M8x35-8.8-DIN-2	4
02-4	063114	FSTN, LW W8-DIN-2	5
02-5	063115	FSTN, FW W8-DIN-2	4
02-6	063141	OPERATION FACEPLATE	1
02-7	063142	STICK PAPER	1
02-8	063143	FSTN, HHCS 020221	1
02-9	063144	STICK PAPER, DEPTH	1
02-10	063145	SHOW WHEEL	1
02-11	063146	BRACKET	1
02-12	063147	FSTN, HEX NUT M8-DIN-2	1
02-13	063148	FSTN, HHCS M6x20-8.8-DIN-2	9
02-14	063131	FSTN, LW W6-DIN-2	14
02-15	063150	LINE	1
02-16	063151	TENSION SPRING	1
02-17	063152	SPEED INSTRUMENT	1
02-18	063153	FSTN, FW W4-DIN-2	2
02-19	063154	FSTN, LW W4-DIN-2	2
02-20	063155	FSTN, PAN HEAD M4x10-GB-2	2
02-21	063156	SHAFT	1
02-22	063157	FSTN, HHCS M10x60-8.8 HALF-DIN-2	1
02-23	063158	FSTN, FW W10-DIN-2	6
02-24	063159	FSTN, LOCK NUT M10-DIN-2	1
02-25	063160	FSTN, HEX NUT M10-DIN-2	2
02-26	063101	FSTN, LW W10-DIN-2	3
02-27	063162	BEARING	1
02-28	063163	FSTN, HHCS M10x45-8.8-DIN-2	2
02-29	063164	SCREW SHAFT	1
02-30	063165	FSTN, THIN NUT M10-DIN-2	2
02-31	063166	LOCKER SUPPORT	1
02-32	063167	SLOTTER PIN	1
02-33	063168	WAVE WASHER	2
02-34	063169	HOOKE W	1
02-35	063170	LOCK HOLDER	1
02-36	063171	ROCKER	1
02-37	063172	SAFETY SWITCH	1
02-38	063173	WIRE HARNESS	1
02-39	063174	THROTTLE LEVER SUPPORT	1
02-40	063175	FSTN, CAP NUT M6-DIN-2	2
02-52	063187	THROTTLE CABLE	1
02-53	063188	FSTN, HHCS M6x45-8.8-DIN-2	1
02-54	063189	FSTN, LOCK NUT M6-DIN-2	1
02-55	059105	THROTTLE LEVER ASSY	1
02-56	063191	FSTN, FW W6-GB-2	1
02-57	063192	THREAD BUSHING	1
02-58	063193	FLAT GASKET	6
02-59	063194	FSTN, HHCS M6x25-8.8-DIN-1	6

SECTION 4 PARTS

APS20H Blade Guard Assembly Illustration



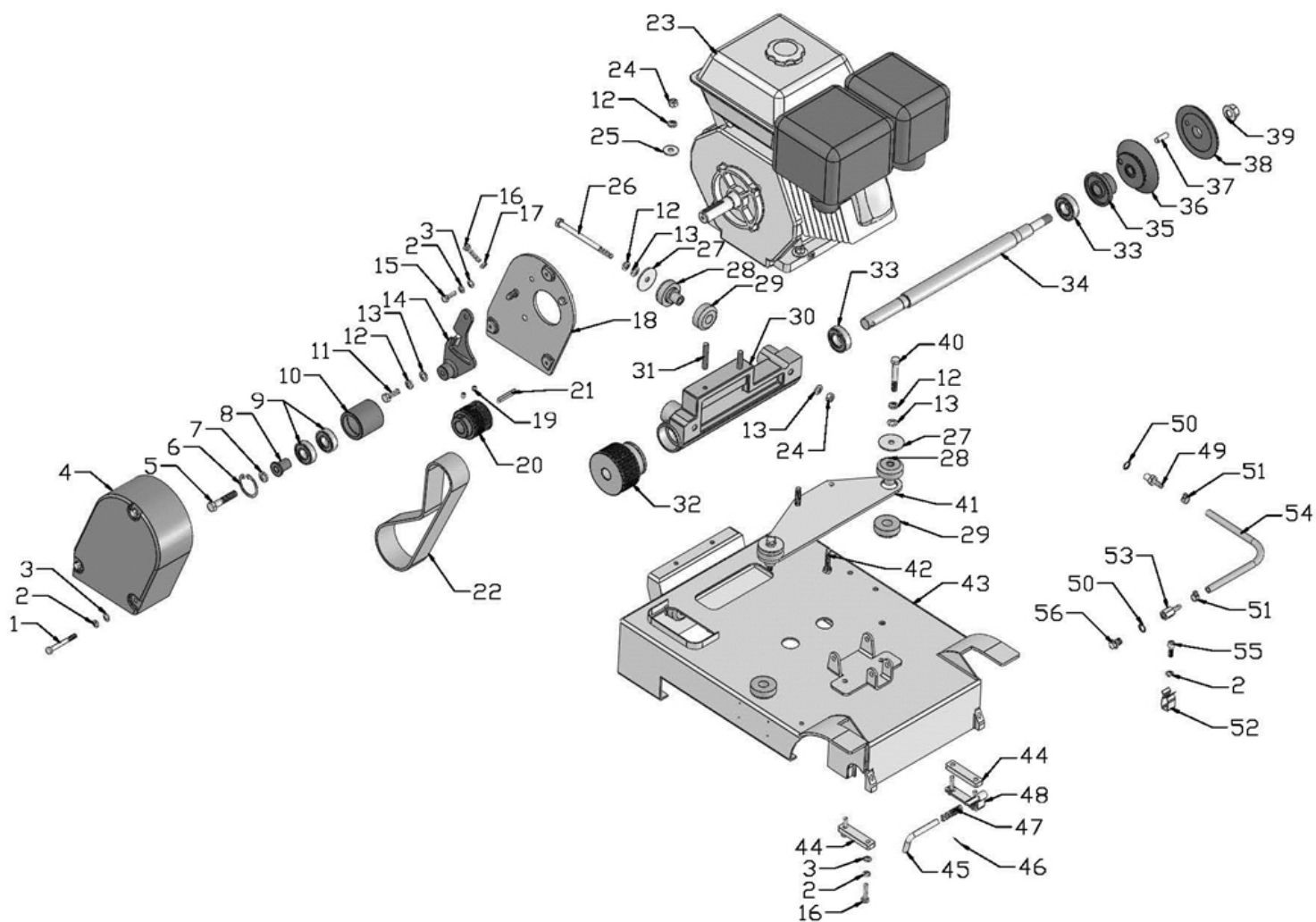
APS20H Blade Guard Assembly Parts List

SECTION 4 PARTS

NO.	PART NO.	DESCRIPTION	QTY
03-1	063195	BLADE GUARD	1
03-2	063196	FSTN, LOCK NUT M8-DIN-2	1
03-3	063115	FSTN, FW W8-DIN-2	9
03-4	063198	FSTN, HHCS M8x100-8.8 HALF-DIN-2	2
03-5	063199	FSTN, HHCS FLANGE M5x25-8.8-DIN-2	9
03-6	063200	UNDERLAY	1
03-7	063201	FSTN, WASHER W5-GB-2	11
03-8	063202	FSTN, LOCK NUT M5-DIN-2	11
03-9	063203	BLADE GUARD SUPPORT	1
03-10	063204	FSTN, HHCS M6x20-8.8-DIN-2	4
03-11	063131	FSTN, LW W6-DIN-2	4
03-12	063132	FSTN, FW W6-DIN-2	4
03-13	063114	FSTN, LW W8-DIN-2	7
03-14	063208	FSTN, HHCS M8x25-8.8-DIN-2	2
03-15	063209	FIXED PLATE	1
03-16	063210	90° ELBOW	2
03-17	063211	SPRINKLE	2
03-18	063212	HOSE	2
03-19	063213	BLADE GUARD	1
03-20	063214	UNDERLAY	1
03-21	063215	CONNECT PLATE	1
03-22	063216	FSTN, HHCS M8x16-8.8-DIN-2	4
03-23	063217	HOSE	1
03-24	063218	SPDDE TIE-IN	1
03-25	063219	HOSE NIPPLE	1
03-26	063220	CULVERT VALVE	1
03-27	063221	CONNECTOR	1
03-28	063222	FSTN, HHCS FLANGE M5x30-8.8-DIN-2	2
03-29	063223	DUST JACKET	1

SECTION 4 PARTS

APS20H Base Plate and Engine Assembly Illustration



BLADE, SUPER PREMIUM 18" SAW

PART# - 064953

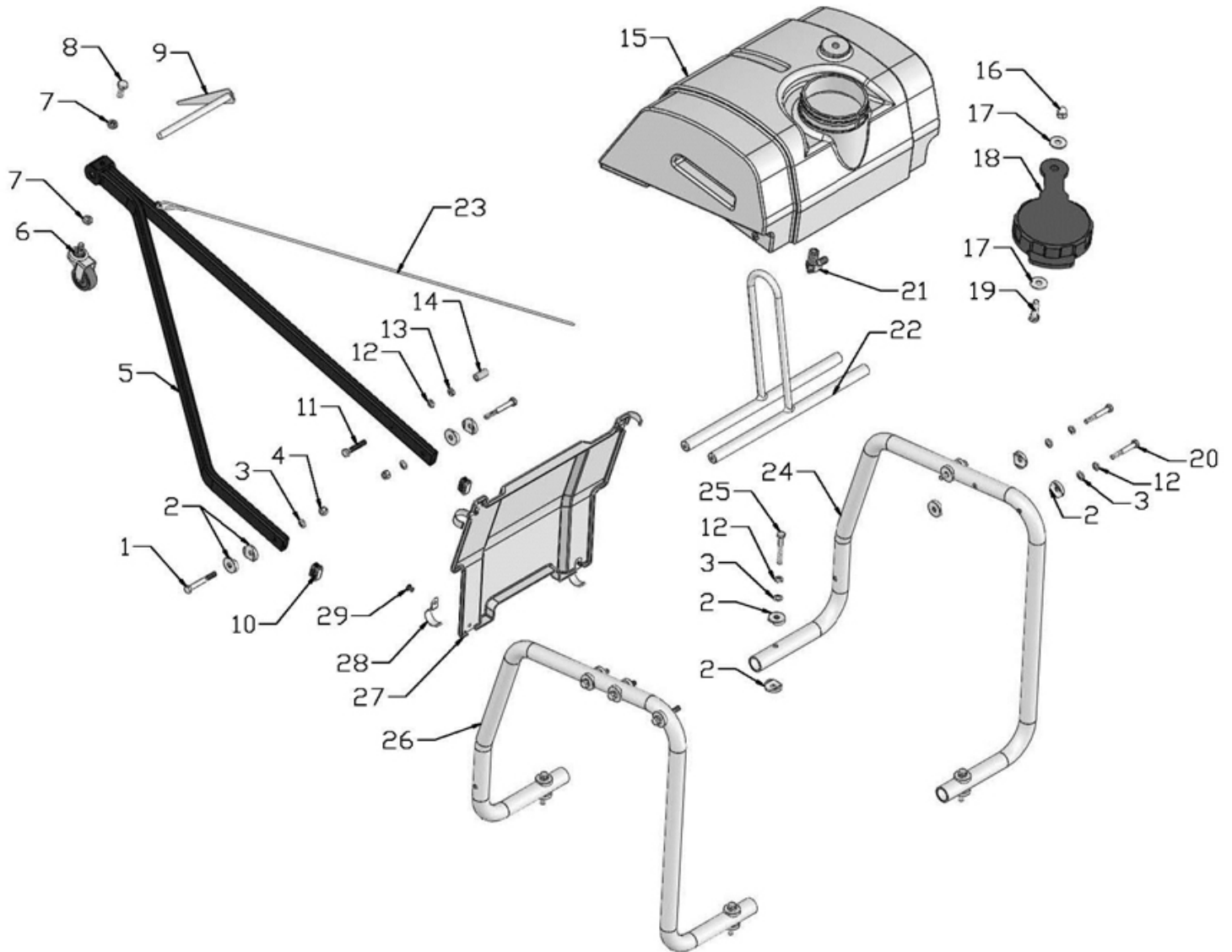
APS20H Base Plate and Engine Assembly Parts List

SECTION 4 PARTS

NO.	PART NO.	DESCRIPTION	QTY
04-1	063224	FSTN, HHCS M8x100-8.8 HALF-DIN-2	3
04-2	063114	FSTN, LW W8-DIN-2	10
04-3	063115	FSTN, FW W8-DIN-2	9
04-4	063227	BELT COVER	1
04-5	063228	FSTN, HHCS M12x60-8.8-DIN-2	1
04-6	063229	INTERNAL CIRCLIP	1
04-7	063230	FSTN, LW W12-DIN-2	1
04-8	063231	BEARING BUSH	1
04-9	063232	BEARING	2
04-10	063233	IDLER	1
04-11	063234	FSTN, HHCS M10x30-8.8-DIN-2	1
04-12	063101	FSTN, LW W10-DIN-2	9
04-13	063102	FSTN, FW W10-GB-2	7
04-14	063237	IDLER BRACKET	1
04-15	063208	FSTN, HHCS M8x25-8.8-DIN-2	2
04-16	063239	FSTN, HHCS M8x35-8.8-DIN-2	5
04-17	063240	FSTN, THIN NUT M8-DIN-2	1
04-18	063241	BELT COVER SEAT	1
04-19	063242	FSTN, FHSS M8x8-GB-3	2
04-20	063243	P.T.O PULLEY	1
04-21	063244	KEY, 7x7x32	1
04-22	063245	BELT, 12PK780	1
04-23	063246	ENGINE, GX390	1
04-24	063160	FSTN, HEX NUT M10-DIN-2	6
04-25	063248	FSTN, FW W10-GB-2	4
04-26	063249	FSTN, HHCS M10x140-8.8 HALF-DIN-2	2
04-27	063250	FSTN, WASHER 010418	4
04-28	063251	SHOCK MOUNT A	4
04-29	063252	SHOCK MOUNT B	4
04-30	063253	BLADE SHAFT SEAT	1
04-31	063254	FSTN, HHCS 030417	2
04-32	063255	DRIVEN PULLEY	1
04-33	063256	BEARING	2
04-34	063257	BLADE SHAFT	1
04-35	063258	FIXER BUSH	1
04-36	063259	BLADE FIXER	1
04-37	063260	PIN, 10x30	1
04-38	063261	BLADE FIXER	1
04-39	063262	FSTN, NUT FLANGE M16L-DIN-3	1
04-40	063263	FSTN, HHCS M10x70-8.8 HALF-DIN-2	2
04-41	063264	ENGINE SEAT	1
04-42	063265	FSTN, HHCS M10x45-8.8-DIN-2	2
04-43	063266	BASE PLATE	1
04-44	063267	BEARING SPLINT	2
04-45	063268	BRAKE BAR	1
04-46	063269	SPLIT PIN, 1.6x20	1
04-47	063270	SPRING	1
04-48	063271	BRAKE SEAT	1
04-49	063272	CONNECTOR A	1
04-50	063273	CUPRUM WASHER	2
04-51	063274	HOSE BAND	2
04-52	063275	PIPE HOLDER	1
04-53	063276	CONNECTOR B	1
04-54	063277	HOSE	1
04-55	063278	FSTN, HHCS M8x25-8.8-GB-2	1
04-56	063279	HEX HEAD PLUG, M12x1.5	1

SECTION 4 PARTS

APS20H Water Tank Assembly Illustration

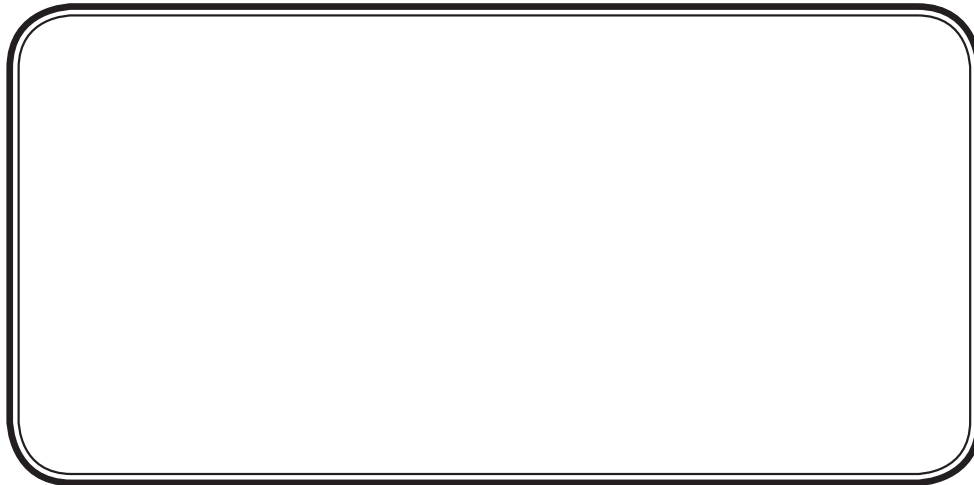


APS20H Water Tank Assembly Parts List

SECTION 4 PARTS

NO.	PART NO.	DESCRIPTION	QTY
05-1	063280	FSTN, HHCS M8x65-8.8 HALF-DIN-2	2
05-2	063281	ARC WASHER	22
05-3	063115	FSTN, FW W8-DIN-2	12
05-4	063196	FSTN, LOCK NUT M8-DIN-2	2
05-5	063284	LEADING POLE	1
05-6	063285	MYRIAD WHEEL	1
05-7	063165	FSTN, THIN NUT M10-DIN-2	2
05-8	063100	FSTN, HHCS M10x25-8.8-DIN-2	1
05-9	063288	POINTER	1
05-10	063289	COVER	2
05-11	063290	FSTN, HHCS M8x45-8.8-DIN-2	1
05-12	063114	FSTN, LW W8-DIN-2	11
05-13	063292	FSTN, THIN NUT M8-DIN-2	1
05-14	063293	RUBBER BUSH	1
05-15	063294	WATER TANK	1
05-16	063295	FSTN, CAP NUT M10-DIN-2	1
05-17	063248	FSTN, FW W10-GB-2	2
05-18	063297	WATER TANK CAP	1
05-19	063298	FSTN, HHCS M10x35-8.8-DIN-2	1
05-20	063299	FSTN, HHCS M8x55-8.8 HALF-DIN-2	6
05-21	063300	WATER TANK TIR-IN	1
05-22	063301	HOOK	1
05-23	063302	LINE	1
05-24	063303	RIGHT PLANK	1
05-25	063304	FSTN, HHCS M8x60-8.8-DIN-2	4
05-26	063305	LEFT PLANK	1
05-27	063306	FRONT BOARD	1
05-28	063307	BUTTON	1
05-29	063308	BUTTON	1

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