



OWNER'S MANUAL

ABI SPORTMASTER

SYNTHETIC ARENA DRAG



*This instruction document covers several models. Features may vary by model.
Not all features in this document are applicable to all models and the model depicted may differ from yours.*



FOR YOUR RECORDS

Record your machine’s information and serial number in the space provided below. ABI will use this information to provide prompt service when you order parts or need support.

This document covers several models. Features may vary by model. Not all features in this document are applicable to all models. The model depicted may differ from yours.

MODEL AND SERIAL NUMBER

Model Number:	_____
Serial Number:	_____
Invoice Number:	_____
Purchaser’s Name:	_____

CONTACT INFORMATION

ABI Attachments, Inc
520 S. Byrkit Ave.
Mishawaka, IN 46544

CUSTOMER SUPPORT

Email: abiacustomerservice@abiattachments.com
Phone: (877)788-7253
Website: abiattachments.com/support

WARRANTY INFORMATION

Please see separate insert for warranty details.

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SAFETY



WARNING! The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety involved and extra safety precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. In addition to design and configuration of equipment, hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.



CALIFORNIA PROPOSITION 65

WARNING! Cancer and reproductive harm - www.P65Warnings.ca.gov

SAFETY AT ALL TIMES

Careful operation is your best assurance against an accident. All operators, no matter how much experience they may have, should carefully read this manual and other related manuals, or have the manuals read to them, before operating the tow vehicle and this implement.

- Thoroughly read and understand the "Safety Label" section. Read all instructions noted on them.
- Do not operate the equipment while under the influence of drugs or alcohol as they impair the ability to safely and properly operate the equipment.
- The operator should be familiar with all functions of the tow vehicle and attached implement and be able to handle emergencies quickly.
- Make sure all guards and shields appropriate for the operation are in place and secured before operating implement.
- Keep all bystanders away from equipment and work area.
- Start tow vehicle from the driver's seat with hydraulic controls in neutral.
- Operate tow vehicle and controls from the driver's seat only.
- Never dismount from a moving tow vehicle or leave tow vehicle unattended with engine running.
- Do not allow anyone to stand between tow vehicle and implement while backing up to implement.
- Keep hands, feet, and clothing away from power-driven parts.
- While transporting and operating equipment, watch out for objects overhead and along side such as fences, trees, buildings, wires, etc.
- Do not turn tow vehicle so tight as to cause hitched implement to ride up on the tow vehicle's rear wheel.
- Store implement in an area where children normally do not play. When needed, secure attachment against falling with support blocks.

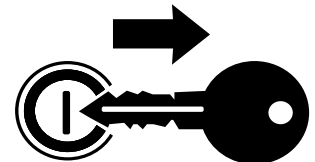
SAFETY PRECAUTIONS FOR CHILDREN

Tragedy can occur if the operator is not alert to the presence of children. Children generally are attracted to implements and their work.

- Never assume children will remain where you last saw them.
- Keep children out of the work area and under the watchful eye of a responsible adult.
- Be alert and shut the implement and tractor down if children enter the work area.
- Never carry children on the tractor or implement. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the tow vehicle.
- Never allow children to operate the tow vehicle, even under adult supervision.
- Never allow children to play on the tow vehicle or implement.
- Use extra caution when backing up. Before the tractor starts to move, look down and behind to make sure the area is clear.

SHUTDOWN & STORAGE

- If engaged, disengage power take-off.
- Park on solid, level ground and lower implement to ground or onto support blocks.
- Put tractor in park or set park brake, turn off engine, and remove switch key to prevent unauthorized starting.
- Relieve all hydraulic pressure to auxiliary hydraulic lines.
- Wait for all components to stop before leaving operator's seat.
- Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.
- Detach and store implement in an area where children normally do not play. Secure implement using blocks and supports.



TIRE SAFETY

- Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's Manual.
- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- Securely support the implement when changing a wheel.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- Make sure wheel bolts have been tightened to the specified torque.
- Some attachments may have foam or sealant inside them and must be disposed of properly.

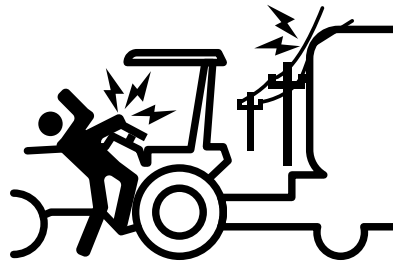


OPERATION SAFETY

- Stay alert for holes, rocks, and roots in the terrain and other hidden hazards. Keep away from drop-offs.
- Stop implement immediately upon striking an obstruction. Turn engine off, remove key, inspect and repair any damage before resuming operation.
- Never operate tractor and implement under trees with low hanging limbs. Operators can be knocked off the tractor and then run over by implement.

TRANSPORT SAFELY

- Comply with federal, state, and local laws.
- Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with tie downs and chains.
- Sudden braking can cause a towed trailer to swerve and upset. Reduce speed if trailer is not equipped with brakes.
- Avoid contact with any overhead utility lines or electrically charged conductors.
- Always drive with load on end of loader arms low to the ground.
- Always drive straight up and down steep inclines with heavy end of a tow vehicle with loader attachment on the "uphill" side.



- Engage park brake when stopped on an incline.
- Maximum transport speed for an attached equipment is 20 mph. DO NOT EXCEED. Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed.
- As a guideline, use the following maximum speed weight ratios for attached equipment:

20 mph when weight of attached equipment is less than or equal to the weight of machine towing the equipment.

10 mph when weight of attached equipment exceeds weight of machine towing equipment but not more than double the weight.

IMPORTANT: Do not tow a load that is more than double the weight of the vehicle towing the load.



PRACTICE SAFE MAINTENANCE

- Understand procedure before doing work. Refer to the Operator's Manual for additional information.
- Work on a level surface in a clean dry area that is well-lit.
- Lower implement to the ground and follow all shutdown procedures before leaving the operator's seat to perform maintenance.
- Do not work under any hydraulic supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- Use properly grounded electrical outlets and tools.
- Use correct tools and equipment for the job that are in good condition.
- Allow equipment to cool before working on it.
- Disconnect battery ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- Inspect all parts. Make certain parts are in good condition & installed properly.
- Replace parts on this implement with genuine ABI Attachments parts only.
- Do not alter this implement in a way which will adversely affect its performance.
- Do not grease or oil implement while it is in operation.
- Remove buildup of grease, oil, or debris.
- Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed.
- Remove all tools and unused parts before operation.



PREPARE FOR EMERGENCIES

- Be prepared if a fire starts.
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.



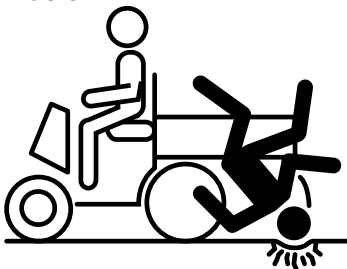
USE SAFETY LIGHTS AND DEVICES

- Slow moving tractors, skid steers, self-propelled machines, and towed equipment can create a hazard when driven on public roads. They are difficult to see, especially at night. Use the Slow Moving Vehicle sign (SMV) when on public roads.
- Flashing warning lights and turn signals are recommended whenever driving on public roads.



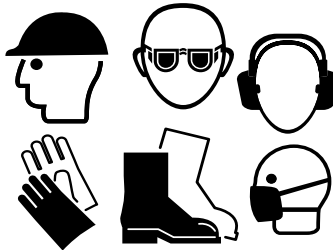
KEEP RIDERS OFF MACHINERY

- Never carry riders on tractor or implement.
- Riders obstruct operator's view and interfere with the control of the tow vehicle.
- Riders can be struck by objects or thrown from the equipment.
- Never use tractor or implement to lift or transport riders.



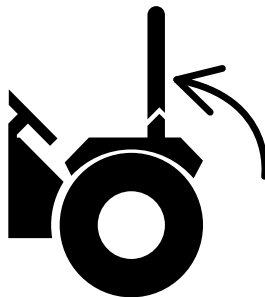
WEAR PERSONAL PROTECTION EQUIPMENT

- Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, and ear plugs.
- Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- Operating equipment safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



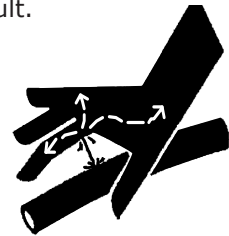
USE SEAT BELT AND ROPS

- ABI Attachments recommends the use of a CAB or roll-over protective structures (ROPS) and seat belt in almost all tow vehicles. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the tow vehicle should be upset.
- If ROPS is in the locked-up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.



AVOID HIGH PRESSURE FLUIDS HAZARD

- Escaping fluid under pressure can penetrate the skin causing serious injury.
- Before disconnecting hydraulic lines or performing work on the hydraulic system, be sure to release all residual pressure.
- Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- DO NOT DELAY. If an accident occurs, see a doctor familiar with this type of injury immediately. Any fluid injected into the skin or eyes must be treated within a few hours or gangrene may result.



AVOID UNDERGROUND UTILITIES

Dig Safe, Call 811 (USA).

- Always contact your local utility companies (electrical, telephone, gas, water, sewer, and others) before digging so that they may mark the location of any underground services in the area.
- Be sure to ask how close you can work to the marks they positioned.



WARNING LABELS

Labels below are not to scale. Please contact the ABI Support department at 877-788-7753 if replacements are necessary.

		⚠ WARNING 10-10976
CRUSHING AND PINCHING HAZARD		
• Be extremely careful handling various parts of the machine. They are extremely heavy and hands, fingers, feet and other body parts could be crushed or pinched between tow vehicle and implement. • Adjust controls from tow vehicle seat only. • Do not stand between tow vehicle and implement when tow vehicle is in gear. • Make sure parking brake is engaged before going between tow vehicle and implement. • Stand clear of machine when in operation or being raised or lowered.		

		⚠ WARNING 10-10977
FALLING BLADE HAZARD		
• Can cause serious injury or death • Keep hands and feet from under raised blades/rakes/teeth unless it is properly blocked and secured. • Always put implement in lowest possible position when adjusting or repairing • Always store implement in lowered position		

	⚠ WARNING 10-10978
TO PREVENT SERIOUS INJURY OR DEATH:	
• Avoid unsafe operation and maintenance. Do not operate or work on this machine without reading and understanding the operator's manual. • If manual is lost, call 877-788-7253 • Do not allow riders and keep others away during operation. • Lower implement, stop tow vehicle engine, set park brake and remove ignition key before servicing, adjusting, repairing or unplugging. • Safely support and secure implement before adjustments or repairs are made. • Park or block implement so it will not roll when disconnecting from tow vehicle. • Never place any part of the body underneath implement or between movable parts even when the engine has been turned off. • DO NOT operate or transport at high speeds. • DO NOT operate or transport on steep slopes.	



FIRST TIME SETUP

HOOK UP TO 3-POINT HITCH & HYDRAULICS

Installing the ABI SportMaster to your tractor is a tool-less installation. We recommend that you wear gloves and safety glasses while setting up the SportMaster.

1. Back up your tractor's 3-point hitch and make sure that it's aligned and centered to the SportMaster.
2. Remove the lower 3pt pins. Pin your tractor's lift arms into the SportMaster's mounting ears.
3. Adjust the topline if needed and pin the topline into the SportMaster upper ears. Insert the Hitch Pin into the Top Link and attach to the SportMaster.
4. Connect the scarifier and Press Plate hydraulic hoses into the tractor hydraulic ports if applicable.

NOTE: IF YOU ARE USING A QUICK-HITCH, PLEASE MAKE SURE TO GET THE PROPER BUSHINGS TO MATCH YOUR QUICK-HITCH.

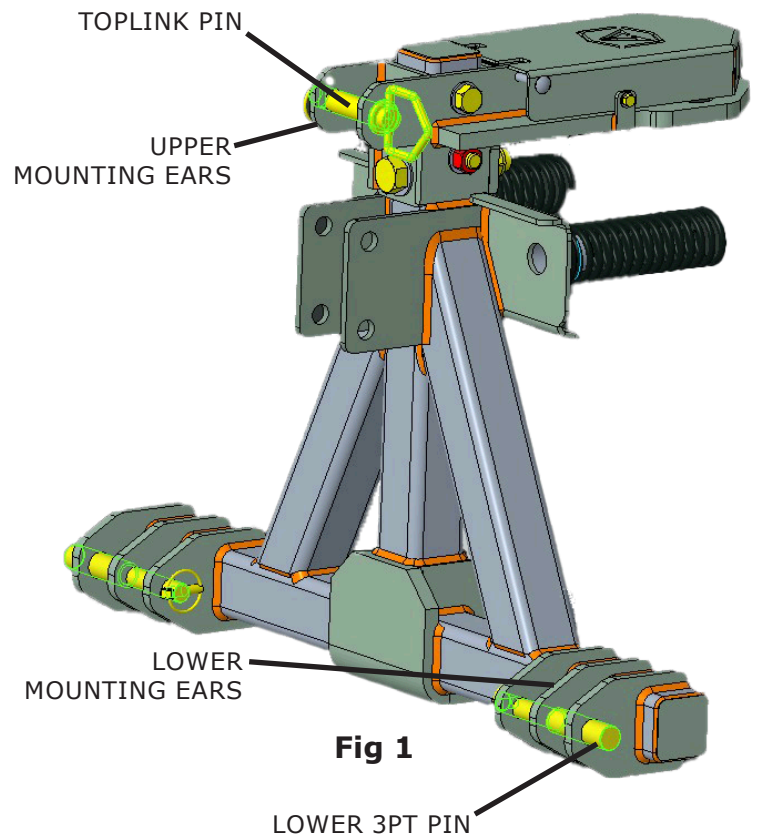


Fig 2

FIRST TIME SETUP (cont'd)

LEVEL SPORTMASTER FRAME

IMPORTANT: Setting up the SportMaster properly is vital for peak performance! To avoid undesirable results in your footing, be sure to level the SportMaster.

NOTE: LIFT SCARIFIERS AND OPTIONAL PRESS PLATE BEFORE MOVING THE SPORTMASTER.

1. Move your tractor and SportMaster to a flat surface.
2. Lower the SportMaster until the basket is on the ground and the frame is parallel with the ground (**Fig 3**). If you own the SportMaster DUO, lower the SportMaster until both rollers are on the ground.
3. Adjust the tractor topline until the turning hitch is vertical (**Fig 4**).

NOTE: THIS SHOULD COMPRESS SPRINGS

ADJUST TURNING HITCH LIMIT CHAIN

1. Operate the drag and observe the tractor tires and the drag frame.
2. Shorten the Hitch Limit Chains if the tractor tires can come in contact with the drag on tight turns.
3. If you don't need to use the Turning Hitch Limit Chains, you can remove them and store away for future use.



Fig 3

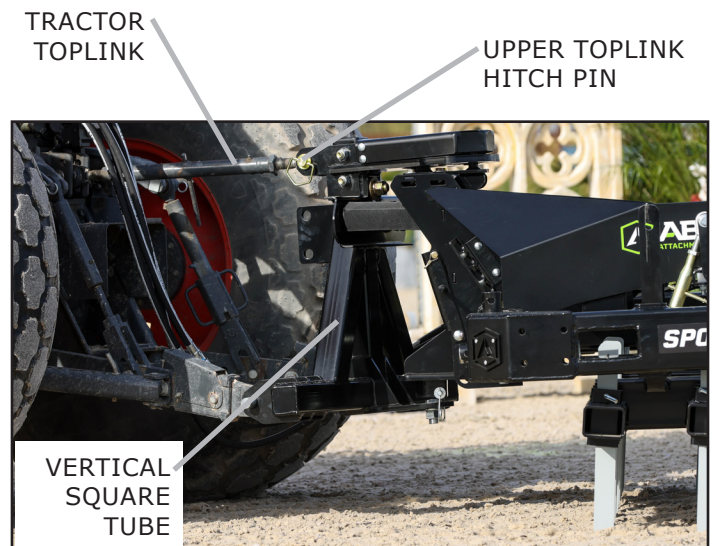


Fig 4

ADJUST SCARIFIERS AND SPRING-TINES

SET MAX SCARIFIER DEPTH

NOTE: DO NOT ADJUST THE COMPRESSION SPRING NUT.

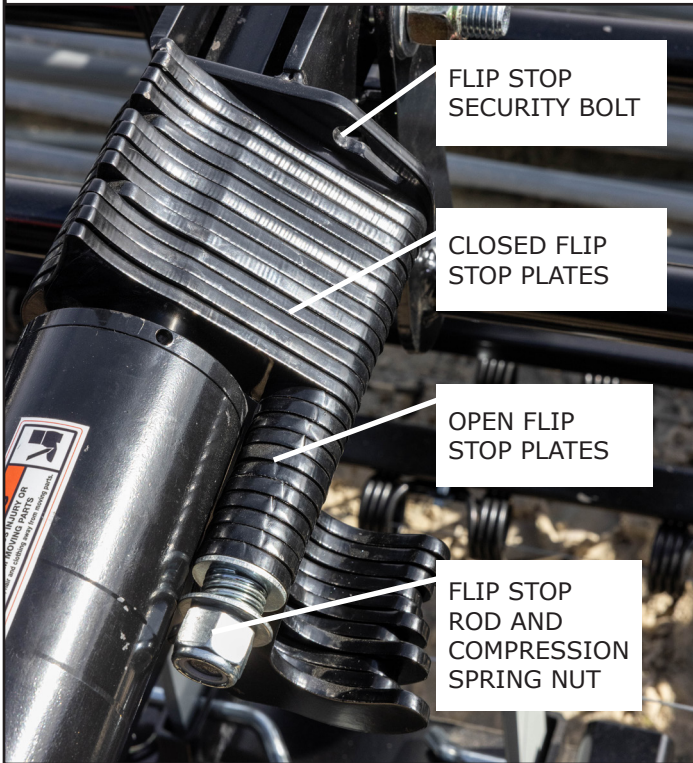


Fig 5

Five Flip Stop Plates equals one inch of scarifier depth. Every fifth plate is notched to easily indicate inches of depth for the operator.



Fig 6

After leveling your SportMaster and adjusting your Hitch Limit Chain, it's time to set your max scarifier depth.

1. Locate the Flip Stop Plates by the scarifier hydraulic cylinder and Spring-Time topline. (**Fig 7**)
2. Remove the Flip Stop security bolt. (**Fig 5**)
3. Rotate all Flip Stop Plates to "open" (off the cylinder rod).
4. Use tractor hydraulics to adjust scarifiers to desired max working depth.
5. Rotate ALL possible flip stops to "closed" (onto the cylinder rod), leaving remaining plates "open" and away from the cylinder body.

NOTE: ALWAYS ENSURE THERE ARE NO GAPS OR OPEN PLATES IN THE STACK OF CLOSED PLATES, OR DAMAGE TO THE FLIP STOP OR CYLINDER MAY OCCUR.

6. Replace the Flip Stop security bolt if desired.
7. As your scarifiers wear, adjust the Flip Stop Plates to compensate for wear.

NOTE: THE FLIP STOP SECURITY BOLT SERVES AS A GUARD TO PREVENT UNWANTED ADJUSTMENTS. IF YOU ARE NOT CONCERNED WITH THE DEPTH BEING ADJUSTED WITHOUT YOUR KNOWLEDGE, YOU CAN REMOVE IT.

NOTE: THE TOPLINKS ON THE LEFT SIDE OF THE SPORTMASTER GOING DOWN TO THE SCARIFIERS AND SPRING TINES ARE PRE-SET AT THE FACTORY (Fig 6**). THESE ARE NOT BE ADJUSTED UNLESS A WELDMENT ATTACHED TO THE TOPLINK NEEDS TO BE REPAIRED OR REPLACED OR THE SIDE-SIDE ADJUSTMENT OF THE WELDMENT NEEDS ADJUSTED.**

ADJUST SCARIFIERS AND SPRING-TINES (cont'd)

ADJUST SPRING-TINE HEIGHT & ANGLE



Fig 7

After you've set your scarifier depth, set the depth and angle of the Spring-Tines.

1. Locate the Spring-Tine toplink (**Fig 7**).
2. Turn toplink to raise or lower the spring tines.
3. To adjust the angle of the Spring-Tines, remove the four pins (two on each side) and turn the square tubing until you've achieved your desired angle (**Fig 8**).
4. Reinsert the four pins, to set Spring-Tine angle.

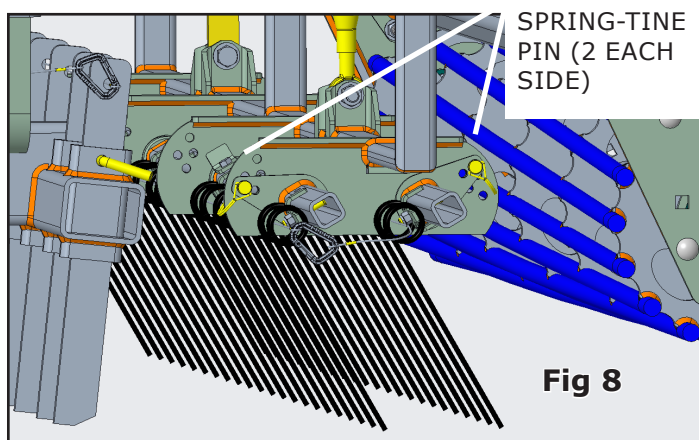


Fig 8

PRESS PLATE (OPTIONAL)

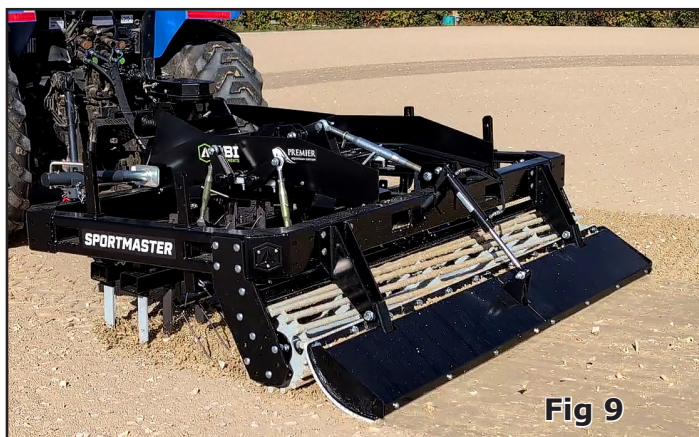


Fig 9

REPLACEMENT PARTS

All ground engaging components are considered wear parts and will need to be replaced as they wear out from use. To place an order, please contact the ABI Customer Support department at 877-788-7253.

SPECIFICATIONS

DETAILED SPECIFICATIONS			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
Groomer Type:	3-Point Swivel		
# Of Rollers:	1	2	1
Primary Engagement:	Scarifiers		
Max Working Width:	94.75" (7' 10.75")	94.75" (7' 10.75")	95.25" (7' 11.25")
Max Unit Width:	99" (8' 3")		
TOW VEHICLE REQUIREMENTS			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
Vehicle Type:	Utility Tractor w/3-Point Hitch (CAT I or II)		
Min. Horsepower:	45 hp		
Max. Horsepower:	150 hp		
4 Wheel Drive:	Required		
Max Outside Tire Tread Width:	78" (6' 6")		
Min. 3-point Lift (At Ends):	3,200 lbs.	3,400 lbs.	3,200 lbs.
Min. 3-point Lift (At 24"):	2,600 lbs.	2,800 lbs.	2,600 lbs.
Hydraulic Ports Needed:	None, 1 Set Of Ports, Or 2 Sets of ports depending on options		
Front Weight Needed:	YES, Min 20% of Total Machine Weight		
CONNECTION			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
3-Point Hitch Category:	CAT1 & CAT2		
3-Point Hitch Type:	Auto Center & Locking Swivel Hitch		
QuickHitch Compatible:	Yes, CAT1QH, CAT2QH		
ROLLERS			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
# Of Rollers:	1	2	1
Front Roller:	No	Yes	No
Rear Roller:	Yes	Yes	Yes
Roller Type:	Solid Rod Twisted Bar	Solid Rod Twisted Bar	Rubber FarmFlex
Roller Diameter:	12.5"	12.5"	12"
Working Width:	94.75" (7' 10.75")	94.75" (7' 10.75")	95.25" (7' 11.25")
SCARIFIERS			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
# Of Scarifiers:	23		
# Of Rows:	2-Rows		
Hydraulic Movement Control:	Optional, Hydraulic Adjustment w/Safety Stops		
Manual Movement Linkage:	Optional, Manual Adjustment		
Adjustable Depth Range:	0" - 5"		
Scarifier Length:	18" (pins at 13", plus 3.75" extra feed)		
Replaceable:	(8.75" Of Total Possible Wear)		
Max Depth Control:	Yes, Stepless or Controlled Increments		
Working Width:	84.25" (7' 0.25")		

SPECIFICATIONS (cont'd)

COIL TINES			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
# Of Tines:	22		
# Of Points:	44		
# Of Rows:	2-Rows		
Adjustable Depth Range:	0" - 6"		
Adjustable Pitch Control:	Yes	Yes	Yes
Quick-Adjustment:	Yes	Yes	Yes
Tine Length:	11"		
Working Width:	86.25" (7' 2.25")		
OPTIONS AVAILABLE			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
Hydraulic Scarifier Movement:	Optional, Hydraulic Adjustment w/Safety Stops		
Manual Scarifier Movement:	Optional, Manual Adjustment		
Rear Hydraulic Press Plate:	Optional		
WEIGHTS & DIMENSIONS			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
Unit Weight:	2,102 lbs.	2,542 lbs.	2,039 lbs.
Shipping Weight:	3,002 lbs.	3,442 lbs.	2,939 lbs.
Unit Weight w/Press Plate:	2,363 lbs.	2,803 lbs.	2,300 lbs.
Shipping Weight w/Plate:	3,263 lbs.	3,703 lbs.	3,200 lbs.
Unit Dimensions:	99" W x 78.5" L x 41.5" H		
Shipping Dimensions:	101" W x 96" L x 44" H		
Unit Dimensions w/Plate:	99" W x 93.5" L x 41.5" H		
Shipping Dimensions w/Plate:	101" W x 96" L x 44" H		
LIMITED WARRANTY			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
Commercial Use:	12 Months		
Rental Use:	3 Months		
USAGE			
	Sportmaster	Sportmaster DUO	Sportmaster FarmFlex
Applications:	Synthetic Footing Equine Arenas		
English Specialties:	Show Jumping, Dressage, Pleasure		
Western Specialties:	None		

CONTACT INFORMATION

ABI Attachments, Inc
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Mishawaka, IN 46544

CUSTOMER SUPPORT

Phone: 877-788-7253
Hours: Monday - Friday | 9AM - 5PM EST
Email: abcustomerservice@abiattachments.com
Web: abiattachments.com/support/

For additional information on this equipment, or to order replacement parts, please contact our Customer Support Team at 877-788-7253 to speak with one of our representatives.

Additional support videos are available at the ABI Support Page under each tool.

Warranty and return policy information can also be found on the ABI Support Page under each tool. For additional questions regarding warranty or return policy, please contact our Customer Support Team at 877-788-7253 to speak with one of our representatives.



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