

Angle Broom 72"SS

Model:TMG-AB72

- Please read the product manual completely before assembly
- Check against the parts list to make sure all parts are received
- Wear proper safety goggles or other protective gears while in assembly

Missing parts or questions on assembly?

Please call: 1-877-761-2819 or email: cs@tmgindustrial.com

Do not return the product to dealer, they are not equipped to handle your requests

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GENERAL COMMENTS

Congratulations on the purchase of a new Angle broom. This product has been designed and built to clean and handle all types of material including fine dirt, gravel, mud, millings and other debris. You or any other people who will be assembling, operating, maintaining, or working with this product are required to read and completely understand the information and instructions contained in this manual. If any questions about it, please obtain further assistance by contacting the dealer from which this product was purchased. Your attachment was carefully designed and manufactured to give you many years of dependable service. Only minor maintenance (such as cleaning and lubricating) is required to keep it in top working condition. Be sure to observe all maintenance procedures and safety precautions in this manual, on the safety decals located on the attachment, and on any equipment on which the attachment is mounted.

The purpose of this manual is to assist in assembling, mounting, operating, and maintaining your Hydraulic Angle broom. It can help you to do a better, safer job. Read this manual carefully, and become familiar with the operating procedures before attempting to operate your attachment.


The illustrations and data used in this manual were current at the time of printing, but due to possible engineering and/or production changes, this product may vary slightly in detail. Our company reserves the right to redesign and/or change components as may be necessary without notification to anyone.


REMEMBER: never let anyone operate this attachment without them having read and completely understand the “Safety ” and “Operating Instructions” sections of this manual, or having them be fully trained by an experienced, qualified person who has read and completely understands the “Safety Precautions” and Operating Instructions”.





SAFETY PRECAUTIONS

THE USE OF THIS EQUIPMENT IS SUBJECT TO CERTAIN HAZARDS WHICH CANNOT BE PROTECTED AGAINST MECHANICAL MEANS OR PRODUCT DESIGN. ALL OPERATORS OF THIS EQUIPMENT MUST READ AND UNDERSTAND THIS ENTIRE MANUAL, PAYING PARTICULAR ATTENTION TO SAFETY AND OPERATING INSTRUCTIONS, PRIOR TO USING THE HYDRAULIC ATTACHMENT. IF THERE IS SOMETHING IN THIS MANUAL YOU DO NOT UNDERSTAND, ASK YOUR SUPERVISOR TO EXPLAIN IT TO YOU. FAILURE TO OBSERVE THESE SAFETY PRECAUTIONS CAN RESULT IN DEATH OR SERIOUS INJURY OR SERIOUS EQUIPMENT DAMAGE.


 All bystanders should be kept a minimum of 10 feet (3 meters) away from working area of the attachment.


 **PROTECT AGAINST FLYING DEBRIS:** Always wear an OSHA approved hard hat and safety eye protection when operating or servicing this equipment. Do not wear loose fitting clothing, flopping cuffs, dangling neckties and scarves, or rings and wrist watches that can catch moving parts.


 An operator must not use drugs or alcohol which can change his alertness or coordination. An operator taking prescription or over-the-counter drugs should seek medical advise on whether or not he can safely operate equipment.


 Never alter or remove any safety decals or shields. Replace all missing or damaged safety decals or safety shields. Check this manual for location of these items and replace immediately if damaged or illegible.

 Never adjust a relief valve for pressure higher than recommended by vehicle manufacturer.

 Whenever changing or installing this or other attachments, make sure all connections are securely fastened. Travel only with the attachment in a safe transport position to prevent uncontrolled movement. Drive slowly over rough ground and on slopes. Remove attachment from vehicle when transporting to and from job site.

 **LOWER OR SUPPORT RAISED EQUIPMENT:** Before exiting vehicle, lower attachment to ground, turn off vehicle engine and lock vehicle brakes. Do not work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels or any other material that could suddenly collapse or shift positions. Make sure support material is solid, not decayed, warped, twisted, or tapered. Lower booms and the attachment to ground level or onto blocks before leaving the cab or operator's station.

 Never check a pressurized system for leaks with your bare hand. Oil escaping from pinhole leaks under pressure can penetrate skin and could cause serious infection. Hold a piece of cardboard up next to suspected leaks and wear a face shield or safety eye protection. If any fluid is injected into the skin, it must be removed immediately by a doctor familiar with this type of injury.

 Before disconnecting hydraulic lines or fittings, be sure to relieve all pressure by cycling all hydraulic controls after shutdown. Remember hydraulic systems are under pressure whenever the engine is running and may hold pressure after shutdown. Before applying pressure to the system make sure all connection are tight and that there is no damage to lines, fittings and hoses.

 Flow and pressure gauges, fittings and hoses must have a continuous operating pressure

rating of at least 25% higher than highest pressures of the system.



Avoid steep hillside operation which could cause the vehicle to overturn. Consult your vehicle operator's and safety manuals for maximum incline allowable.



Never perform any work on an attachment unless you are authorized and qualified to do so. Always read the operator service manual(s) before any repair is made. After completing maintenance or repair, check for correct functioning of the attachment. If not functioning properly always tag "DO NOT OPERATE" until all problems are corrected.



This manual covers the safe use, installation, operation and service instructions for the attachment only. Always read the operating and safety manuals prepared for your vehicle and any other attachments before using them.

EQUIPMENT SAFETY PRECAUTIONS



CAUTION! Avoid pinch points and be aware of rotating parts when operating the attachments.



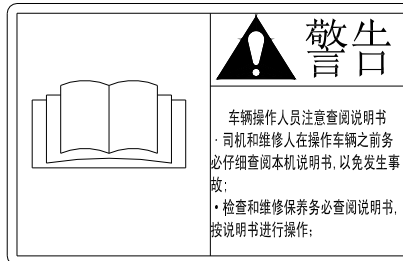
WARNING! ROTATING OBJECTS!

- **Check your work area, for objects that could harm** the operator or others if thrown by the attachment. Remove these items before working.
- **Do not carry load with arms in the raised position.** Always carry loads close to the ground. Do not step off platform with load raised.
- Use extra care when loading or unloading the machine onto a trailer or truck.
- **Slow down before turning.** Sharp turns on any terrain may cause loss of control.
- **Always lower the loader arms to the ground;** shut off the engine and remove the key before getting off the unit.
- **Turn off engine before performing maintenance.** If lift arms must be left raised for maintenance or any other reason, use a positive lift arm lock to secure the arms in place. Serious damage or personal injury could result from lift arms accidentally lowering.

SAFETY DECALS

1、WARNING

READ AND UNDERSTAND OPERATING INSTRUCTIONS AND SAFETY INFORMATION PRIOR TO OPERATING YOUR ATTACHMENT.。



2、PINCH POINT HAZARD



3、FLYING OBJECTS HAZARD



4、HIGH PRESSURE FLUID HAZARD



MAIN SPECIFICATIONS:

SPECIFICATIONS	Standard, angle broom 72" SS
Model Number	TMG-AB72
Working Width	1828 mm (72").
Overall Width	2200 mm
Brush Diameter	26"(670mm)
Overall Height	740 mm (29")
Wafer Quantities, Combination Poly & Wire	2 Straight Poly Wafers 39 Convolved Wafers
Number of Motors	1
Maximum Articulation Angling	Manual Angling: 30° left or right
Hydraulic Flow Rate	45-95 L/min (12-25GPM)
Oil Pressure Range	16-21 MPa
Overall dimension L*W*H	1560*2200*740 mm
Weight (approximate)	420 kg

- SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT LIABILITY THEREFOR.

NOTE: The illustrations and data used in this manual were current (according to the information available to us) at the time of printing, however, we reserve the right to redesign and change the brooms as may be necessary without notification.

SKID STEER LOADER REQUIREMENTS

The Angle broom is designed to attach to skid steers with the following minimum requirements:

SAE Lift Capacity 1200 lbs.
Hitch Type Universal Quick Attach Hitch
Hydraulic Pressure Rating 1600 - 2200 PSI.
Motors & Hoses 10 - 23 GPM.
Hydraulic Hoses 3 - Hydraulic couplings: Inlet/Outlet/Case drain line

• **Connection:** *with Flat-Faced Couplers:*

- 1/2" Flat-face Quick Coupling (male) & 1/2" Flat-face Quick Coupling (female)
- 3/8" Flat-face Quick Coupling (female); (for case drain line if equipped on skid steer loader)

Caution:

DO NOT EXCEED 23 GALLONS PER MINUTE!!

Severe injury or death could occur due to the increased RPM.

CAUTION: NEVER store angle broom with weight on bristles. This will cause warping of bristles. ALWAYS store on stands keeping broom bristles off the ground.

DANGER! ROTATING PARTS HAZARD! STAY BACK!
OBJECTS CAN BE THROWN!
DO NOT operate near bystanders.

IMPORTANT: The attachments have been equipped with 3 hoses. Hose fittings and quick couplers to the skid steer loader are optional. If not purchased with it, they can be purchased from your dealer or local market. Make sure the couplers compatible to attach the unit to the skid-steer auxiliary hydraulic couplers, including the type, the dimensions and the quantities.



NOTE! DEALERS AND/OR OWNERS MUST DETERMINE THAT COMPATIBILITY BETWEEN THE SKID STEER LOADER AND ATTACHMENT EXISTS.

Compatibility includes, but is not limited to items such as operator clearance, hitch (mounting assembly) component strength, and hydraulics.

The 3rd hose and quick coupler for case drain line is only an option. It is only used for attaching to the skid steer loader equipped with Case drain line along its path to the sump/tank. If not equipped, then just remove the hose of the attachment.

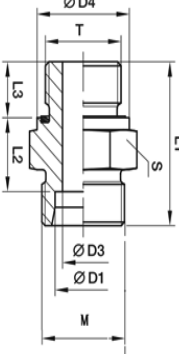
⚠ ATTENTION

The 3rd hose (3/8") is designed to use in newer bobcat models. If your machine is not designed to have the 3rd hose, please disregard it, and plug the outlet.

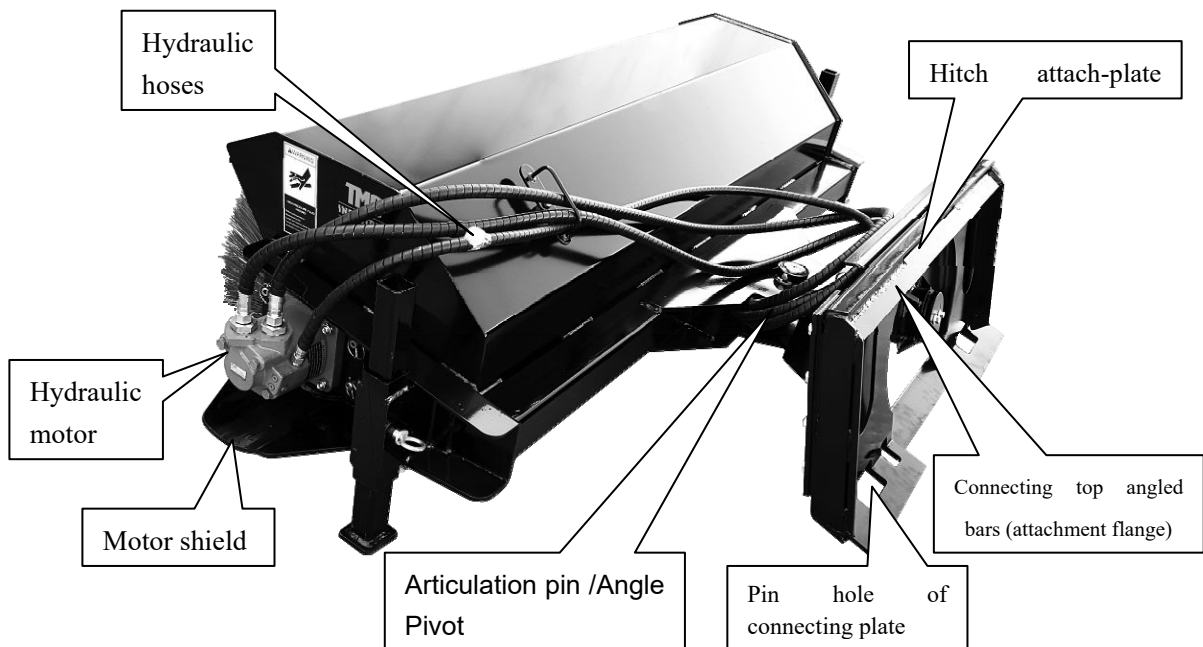
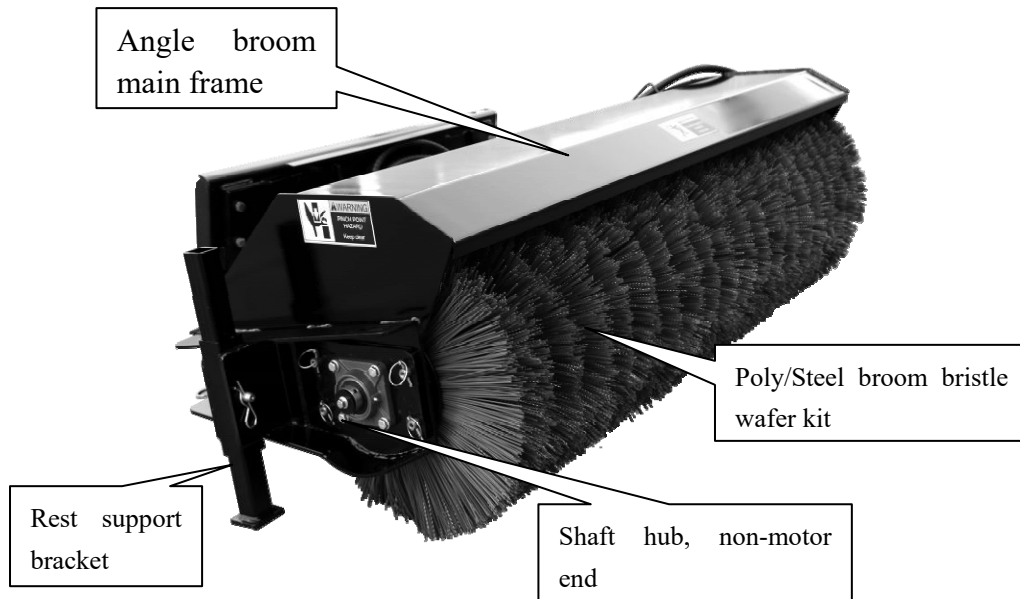
The angle broom was supplied with hoses. Proper hose end fittings and/or quick couplers must be purchased as the hose threads.

Hose End Fittings:..... One hose end must be metric M18X1.5. The fitting for the other end can be whatever you determine to be the most beneficial to making the connection to your skid steer.

HOSE THREAD LIST

ATTACHMENTS	HOSE THREAD FOR HOSE FITTING (HOSE END) <small>(connected with male & female G1/2" quick coupler)</small>	HOSE THREAD FOR HOSE FITTING (HOSE END) OF THE 3 RD CASE DRAIN LINE <i>if equipped</i> <small>(connected with female G3/8" quick coupler)</small>	REMARKS 管与油口连接接头 IE-G-ED 端直通接头
SWEEPER, ANGLE BROOM, 4 IN 1 BUCKET, BRUSH CUTTER	METRIC M18x1.5	METRIC M18x1.5	
VIBRATORY ROLLER	METRIC M26x1.5	METRIC M18x1.5	
TRENCHER	METRIC M22x1.5	METRIC M18x1.5	
RECOMMENDED MODELS OF QUICK COUPLER	BRAND FASTER OR SIMILAR: 2FFI12GAS_F 2FFI12GAS_M	BRAND FASTER OR SIMILAR: 2FFI38GAS_F	

IDENTIFICATIONS OF MAIN COMPONENTS



OPERATING INSTRUCTIONS:

*INSTALLATION INSTRUCTIONS

The installation of your ATTACHMENT is the same for any other powered attachment for your skid steer loader:

NOTE:

1. Remove any attachments from the front of the loader.
2. Following all standard safety practices and the instructions for installing an attachment in your skid-steer operator's manual, install the ATTACHMENT onto your skid-steer.

NOTE: It is important to make sure the locking mechanism on your quick attach is engaged, therefore locking the attachment onto the skid-steer.



DANGER

*A Crushing Hazard exists when hooking-up equipment. **Do not** allow anyone to stand between skid steer loader and implement while hooking-up to implement. **Do not** operate hydraulics while someone is near the skid steer loader or implement.*



CAUTION

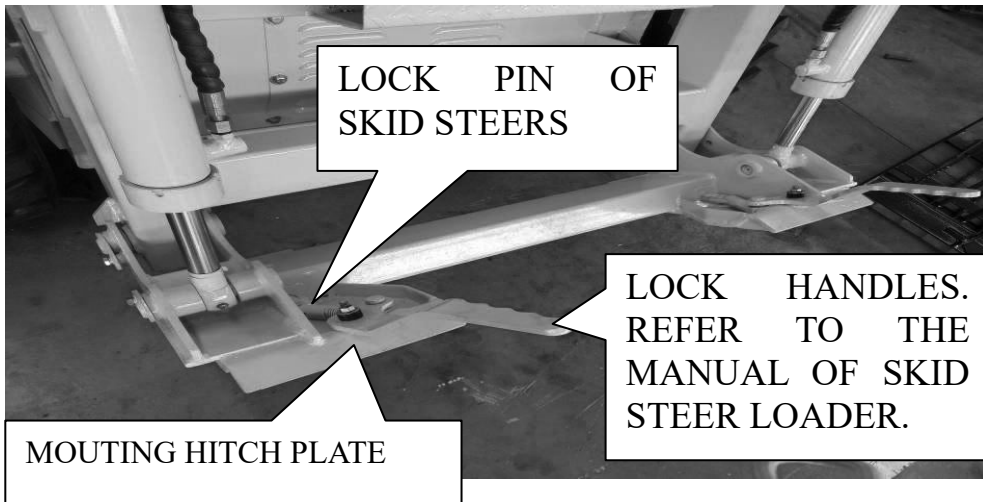
Make sure your skid steer loader hitch is properly attached to the Angle broom hitch. It must be secured under the Angle broom top angle bars and loader hitch plate lock handles must be locked down with locking pins extending fully through bottom slots in the Angle broom hitch. An improperly attached Angle broom can come loose and fall.



WARNING

Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body underneath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury.

*** ATTACHING TO SKID STEER LOADER:**

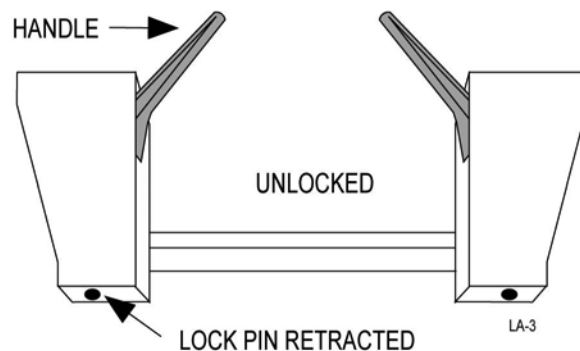


1. Check for and remove any debris in the hitch point areas before attaching to Angle broom to skid steer loader.

Read the skid steer operator's manual connecting and removing instructions.

Position hydraulic hoses so they will not be pinched when connecting the angle broom.

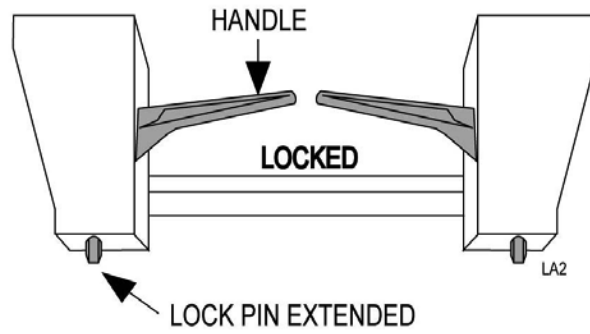
The skid steer lock handles should be in the unlocked position and the lock pins retracted.



2. Drive skid steer loader slowly to the Angle broom and carefully align the skid steer to the angle broom, making sure hitch plate on the skid steer loader is parallel with the Angle broom's top angle bars.

3. Rotate top of skid steer loader tilt arms slightly forward.

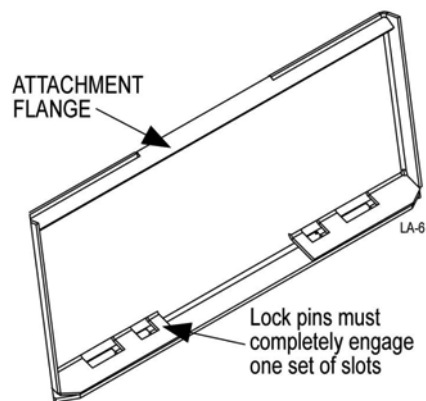
4. Position top of skid steer loader hitch plate under the top angled bars and slowly raise loader hitch plate up until hitch plate is seated under the top angle bars (attachment flange). Lower skid steer lift arms to their lowest position



5. Rotate top of skid steer loader tilt arms back until Angle broom makes full contact with face of hitch plate so the lock handles can be engaged.

6. Push lock handles on the skid steer loader hitch down. Make sure lock pins go through bottom slots in the Angle broom hitch and handles are fully locked down.

The lock pins must be completely extended and secured into the slots provided on the angle broom.



Hydraulic Hose Hook-up

Connect hydraulic hoses to skid steer auxiliary quick couplers.

2 or 3 quick couplers should be connected according to the equipment on the skid steer loader. If only 2 couplers are equipped on the skid steer without the case drain line, then just remove the 3rd one and plug the outlet port accordingly.



DANGER

Hydraulic fluid under high pressure can penetrate skin. Wear protective gloves and safety glasses or goggles when working with hydraulic systems. Use a piece of cardboard or wood rather than hands when searching for hydraulic leaks. If hydraulic fluid is injected into the skin or eyes, it must be treated by a doctor familiar with this type of injury within a few hours or gangrene may result. DO NOT DELAY.

IMPORTANT: Collect and dispose all oil spills and leaks in an environmentally safe manner.

IMPORTANT: Hose routing is the responsibility of the owner/operator of the Angle broom. Pinched and/or stretched hoses are not covered under the warranty.

IMPORTANT: Make sure all coupler fittings are clean before connecting them together.

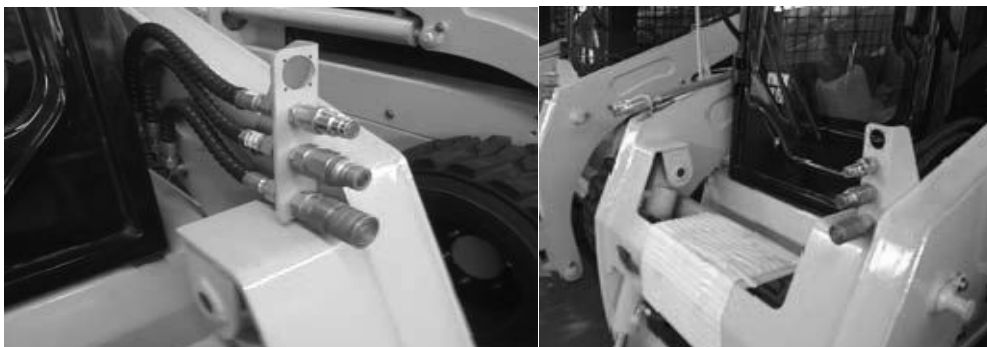
Two high pressure hydraulic outlets are required for the hydraulic motor.

1. Route hydraulic hoses along the most convenient path to access your skid steer loader.
2. Clean quick connect couplers of dirt and then connect couplers to the skid steer couplers.

Make sure quick connect couplers have fully engaged.

If they have not, check the following:

- a. Make sure couplers are same size and type.
- b. Make sure hydraulic pressure has been released.





CONNECT QUICK
COUPLERS
REFER TO THE MANUAL
OF SKID STEER LOADER



Now the mechanism and hydraulic device have been properly connected to be ready for working.

NOTE:

The ATTACHMENT attaches to the toolbar/quick-attach mechanism of your skid-steer loader. Due to this arrangement, thorough knowledge of the skid-steer controls is necessary for machine operation. Read and understand your skid steer operator's manual for information regarding skid-steer operation before attempting to use the ATTACHMENT. Follow all installation instructions for the proper installation of the unit onto your skid-steer before attempting to operate your ATTACHMENT.

Check Equipment before operation

It is important to check clearance before putting the Angle broom into operation. Make sure hydraulic hoses are long enough and won't become pinched or entangled in the equipment.

1. Visually inspect hydraulic hoses for possible pinch points and shortness. If needed, make hose adjustments before putting equipment into service.
2. Start skid steer/tractor and raise loader arms high enough to tilt the hitch plate fully down without Angle broom making contact with the ground.
3. Fully extend and retract hydraulic cylinders on the end of the skid steer loader arms while watching for interferences between skid steer loader and Angle broom frame.
4. Raise skid steer/ loader arms fully up and repeat steps above.

IMPORTANT: Make sure hydraulic hoses are long enough and properly secured so that they do not become stretched or pinched through their full range of motions.

NOTICE:

- **Maximum oil flow is 25 gpm (94.8 liters/min) at 3000 psi (206.8 bars). See the skid steer manual for oil flow specifications.**

Before Each Use

Run the angle broom with the skid steer at a slow idle. Check for hydraulic leaks or other problems and make corrections, if necessary, before using the angle broom.

During Use

Carry the angle broom low to the ground so that the operator has good visibility and stability. Avoid any sudden movements. Avoid excessive downward pressure on the brush sections to prevent excessive wear. A two to four inch wide pattern for the broom is sufficient for most applications. Ensure that the adjustment bolts are equally adjusted in order to prevent an uneven wear pattern.

Operating instructions (continued)

Operation of sweeping

The angle broom is capable of, and in fact intended to be utilized for, sweeping away dirt, light snow and other debris. Directions for use are as follows:

1. Start the skid steer at idle speed and raise the brush head.
2. Use low engine speeds to save wear and tear on the angle broom and to prevent dust from billowing up during sweeping.

NOTE: Do not engage the brush at high engine speeds. This damages the angle broom and motor.

3. Engage the brush head and lower it to the ground.
4. Gradually increase skid steer engine rpm to sweeping speed. Travel forward at 5 mph or less.

NOTE: Avoid broom damage. Reduce travel speed to avoid hitting immovable objects.

Before sweeping, make sure the parking stands are raised. It is required to keep the brush off the ground when the broom is not attached to the skid steer loader or if the skid steer loader will be parked for some time.



To sweep:

1. Adjust broom in direction you want to sweep debris.
2. Raise broom so bristles are clear of ground with loader engine at idle.
3. Engage broom, lower to ground and gradually increase engine rpm.
4. Proceed forward slowly (5 mph or less)
5. Note: excessive down pressure on bristles will cause accelerated broom wear.



Never operate this attachment in the proximity of any utilities laying on the ground surface. Always inspect area before starting the sweeping process to avoid any electrical wires or cables that might be laying on the surface.



Moving or engaging the broom with bystanders in the area could result in Death or Serious Injury. Before engaging the broom hydraulics, always make sure the area is clear of bystanders. Never operate the broom when bystanders are in proximity of the work area that could result in Minor or Serious Injury from flying debris. Flying debris could result in Death or Serious Injury.

Angling the Broom

Angling the broom will control the direction debris will leave the broom. Angling the brush head the same direction as the wind will also help reduce the amount of material that blows onto the operator and the area just swept.

Manual Angle Models: Raise the attachment about 8" (200 mm) off the ground surface. Shut off the skid steer engine

1. Exit the cab and remove the angle- lock pin located in the center of the broom mounting bracket.
2. When the lock pin has been pulled, the broom head can be pivoted. Swing the brush head by hand to the desired angle.
3. Insert the pin in the nearest hole to lock the broom head in place.

The manual angle kit has holes for straight sweeping and 30° or 15° angle sweeping right or left.



Sweeping

Carry the broom low to the ground so that the operator has good visibility and stability. Avoid any sudden movements.

Avoid excessive downward pressure on the brush sections to prevent excessive wear. A two to four inch wide pattern is sufficient for most applications. Ensure that the adjustment bolts are equally adjusted in order to prevent an uneven wear pattern.

SLOW DOWN!!

The brooms are powered with the auxiliary hydraulic system on the skid steer power unit. Brush speed can be reduced by reducing engine rpm.

NOTE: Always reduce engine rpm when possible, to reduce hydraulic oil temperature and noise.

Notice the direction of the bristle rotation and if not correct, reverse the flow by selecting the opposite direction on the auxiliary circuit switch, pedal or lever.

When beginning to use the broom, start with the middle of its operating range. Then adjust the engine rpm later, depending on the sweeping requirement.

Lower the broom until the brush is near the ground. With the skid steer engine at a low speed, engage the

auxiliary hydraulic system. Slowly increase the engine speed until the desired brush speed is reached. To stop, slow the skid steer engine speed to idle and then disengage the auxiliary hydraulic system. Slowly lower the broom until ground contact is made. Engage the skid steer drive and move the skid steer in the forward direction to start sweeping.

NOTE: Do not allow the broom to drop violently on to the ground. Lower it slowly to allow the brush bristles to gradually start the sweeping process.

At first, begin sweeping at a slow forward speed and then speed up until the desired result and forward speed is achieved.

Optimum working speeds will usually be between 1 and 4 mph. The type of material being removed will determine the best brush rotation speed and best forward speed to use.

IMPORTANT – Avoid sweeper damage. Do not ram into piles of debris. Use a dozer blade for this type of job.

DIRECTING DEBRIS

Observe wind direction. Sweeping with the wind makes sweeping more effective and helps keep debris off the operator.

SNOW

High brush speeds and low ground speeds work best. Start at 3/4 throttle. For wet/deep snow, increase the rpm to almost full speed. This helps keep snow from packing inside the brush hood.

In deep snow make several passes to clean the surface.

Sweeping so the wind blows from behind the sweeper or with the brush angle keeps snow from blowing onto swept areas.

DIRT & GRAVEL

To minimize dust, try to sweep on humid/overcast days or after it has rained. The addition of an optional sprinkler system will help considerably. Sweep so the wind blows the dust away from you or in the direction the brush head is angled. If the amount of dirt is too much for the broom, use a blade to scrape the large amount of dirt away first and use the broom for final clean up. Keep forward speed low (4 mph or less).

Low brush speeds and moderate ground speeds work best. Brush speeds that are too fast tend to raise dust without increasing efficiency.

To sweep gravel, use just enough brush speed to "roll" the gravel, not throw it.

HEAVY DEBRIS

For two inches or more of heavy debris, medium/high and ground speeds of less than five mph are recommended. Sweep path less than the full width of the broom. Increase engine speed if debris becomes very heavy.

WHILE OPERATING BROOM

Never sweep toward people, buildings, vehicles or other objects that can be damaged by flying debris.

Stopping the broom

The broom quits moving when the auxiliary control is neutralized. When you are done sweeping for a period of time, always rest the broom attachment on the brackets designed to support the weight of the broom when not in use.

To raise the rest brackets, take the weight off the rests by lifting slightly on the broom. Pull the lock pin out of the rest bracket tube and raise the tube to the position where another hole lines up for the pin. Insert the lock pin and keeper.



Transporting

Always follow safety rules, carry low to ground and travel slowly.

1. Transport Position: When the broom is in the lowered position, hook the chain in the chain link so the chain is as short as possible. This will put all the weight of the broom on the transport chain.
2. Be sure to leave enough clearance so the broom does not contact obstacles such as buildings, trees or fences.
3. Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass you safely.
4. When traveling over rough or hilly terrain, slow down and use extra care.
5. Read all the safety warnings in the front of the manual.

Unhooking Angle broom

1. Park skid steer loader on a flat, level, solid surface, and lower Angle broom onto the ground.
2. Place transmission in park, set park brake, shut engine off, release operator restraint and remove switch key.
3. With Angle broom resting on the ground, release all hydraulic system pressures before disconnecting hydraulic hoses from skid steer loader. See Skid Steer Operator's Manual for instructions on how to release skid steer hydraulic system pressures.
4. Disconnect hydraulic hoses from skid steer loader quick couplers. Install dust plugs and couple hoses together for storage. Store hoses on the Angle broom frame to keep dirt away from the couplings.
5. Pull lock handles up allowing lock pins to clear bottom slots in hitch plate.

6. Return to skid steer loader and tilt top of loader hitch slightly forward towards the Angle broom.
7. Slowly lower skid steer loader hitch plate until top angle bars and hitch plate have separated.
8. Back skid steer loader slowly away from the Angle broom

STORAGE



Keep brush away from intense heat or flame. Brush material can ignite and burn.

Keep children and bystanders away from storage area.

■ **Do not store polypropylene brushes in direct sunlight. The material can deteriorate and crumble before the bristles are worn out.**

■ **Do not store the broom with weight on the brushes. Weight will deform them, destroying the sweeping effectiveness.**

Inspect the angle broom thoroughly and prepare for storage. Repair or replace any damaged components.

Remove the angle broom from Skid Steer, page 15. Place on blocks to prevent brush damage.

Clean and cover hose ends, fittings, and hydraulic ports.

MAINTENANCE

- Make sure that all nuts and bolts are in place and properly tightened.
- Make sure that all other fasteners are in place and are performing their specified function.
- Make sure that all hydraulic fittings are tightened and that there are no leaks in any fittings or hoses.
- Replace any damaged parts and excessively worn parts.
- Grease all fittings after every ten hours of use.

GENERAL MAINTENANCE INFORMATION

If you detect a malfunction in either your Angle broom or skid steer loader during the operational safety check, immediately shut skid steer loader off, remove switch key, and make all necessary repairs and adjustments before continuing.

Proper servicing and adjustment is the key to the long life of any implement. With careful inspection and routine maintenance, you can avoid costly downtime and repair.

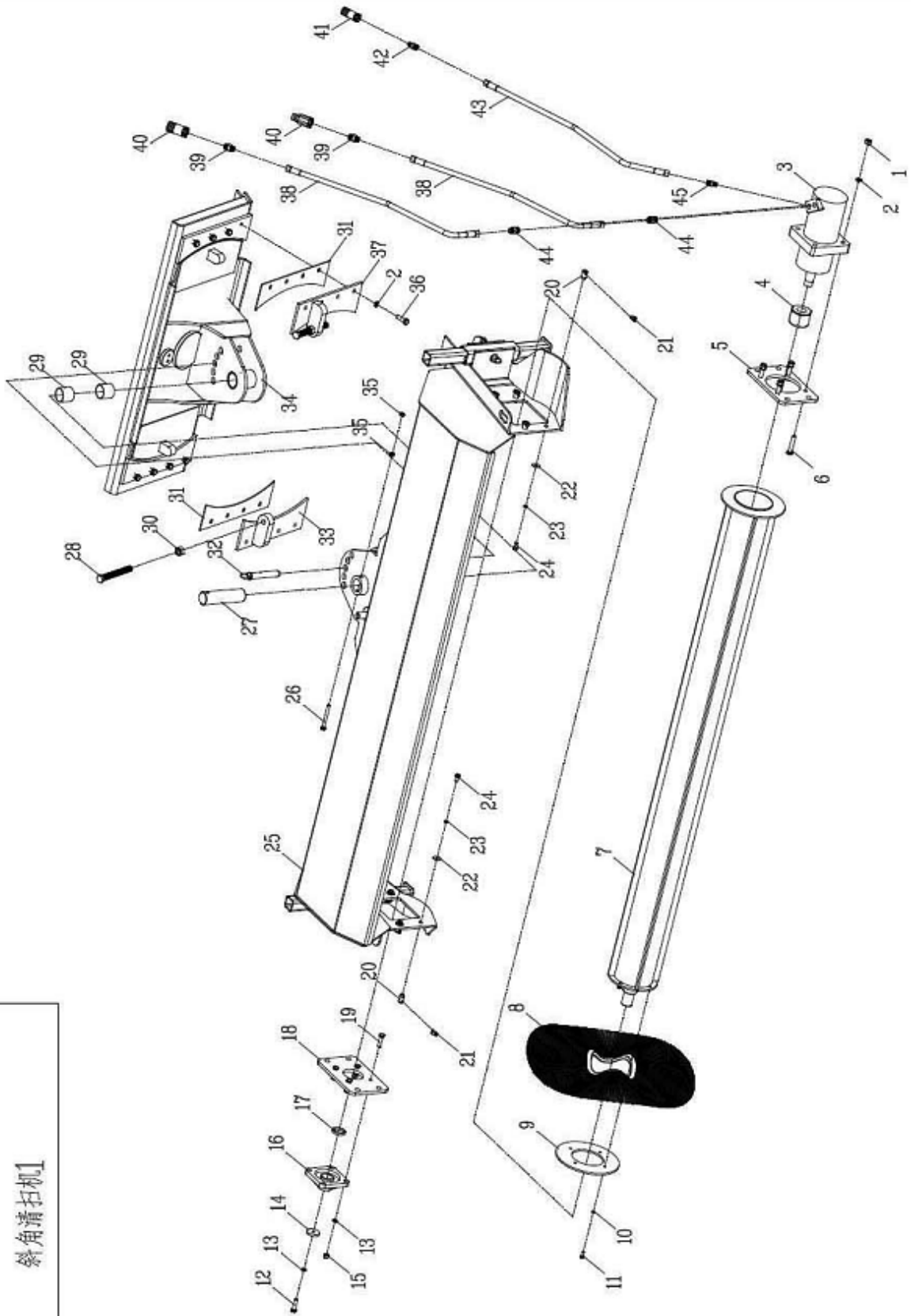
Check all bolts after using unit for several hours to be sure they are tight.

The parts on your Angle broom have been specially designed and should only be replaced with genuine parts. Do not alter the Angle broom in a way which will adversely affect its performance.

LONG TERM STORAGE

Clean, inspect, service, and make necessary repairs to the Angle broom when parking it for long periods and when parking it at the end of a working season. This will help ensure the Angle broom is ready for field use the next time you hook-up to it.

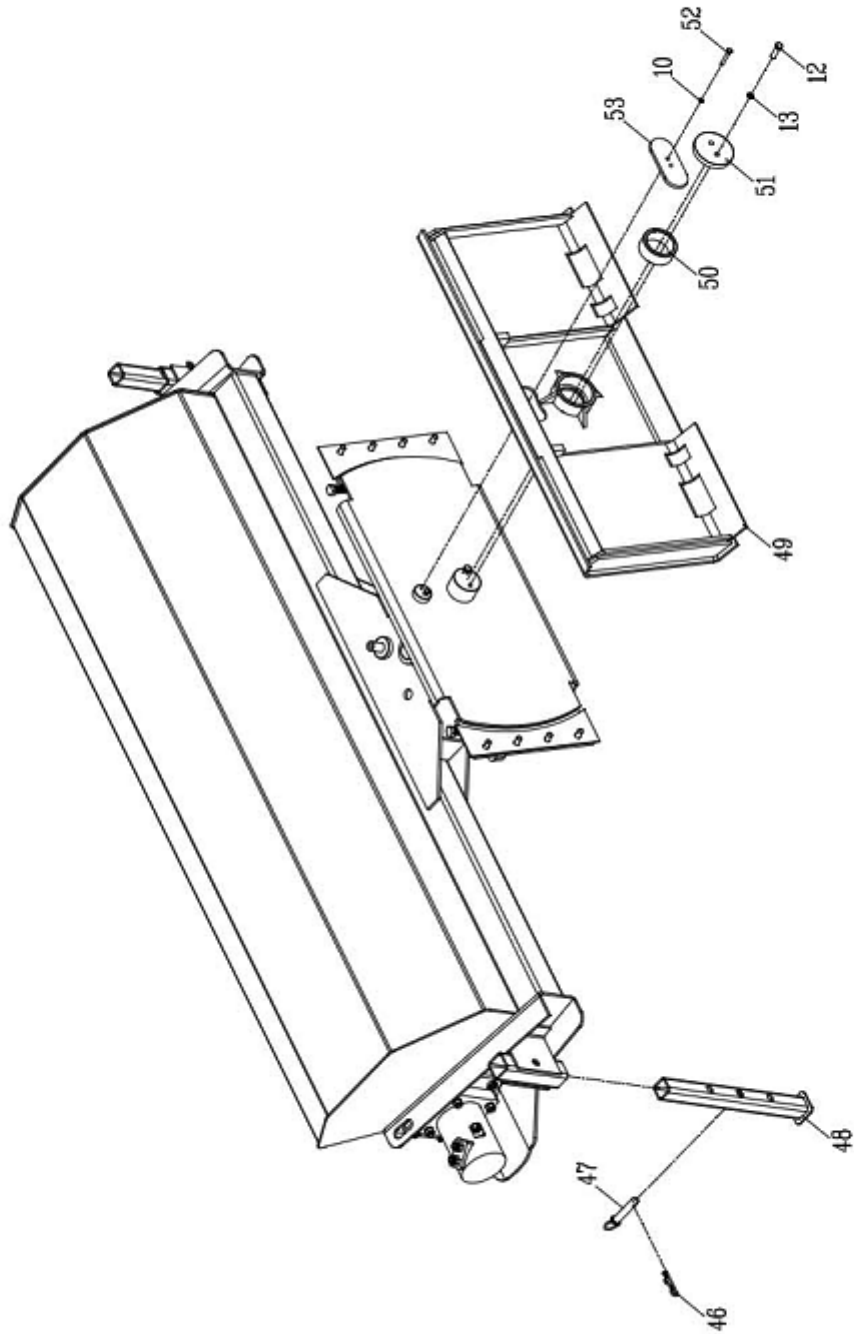
斜角清扫机1



Part no.	Serial no.	Description	REQ'D Quantity/unit	remarks
1	9367001	Nut M14	4	
2	9367002	Spring Washer 14	12	
3	9367003	Hydraulic Motor	1	
4	9367004	Motor support hexagonal sleeve	1	
5	9367005	Motor mounting plate	1	
6	9367006	Bolt M14X55	4	
7	9367007	Brush core weldment	1	
8	9367008	Bristles wafer	45	
9	9367009	Retainer plate, wafer lock	1	
10	9367010	Spring Washer 8	6	
11	9367011	Bolt M12X20	4	
12	9367012	Bolt M12X25	3	
13	9367013	Spring Washer 12	7	
14	9367014	Bearing retainer plate	1	
15	9367015	Nut M12	4	
16	9367016	F208 Flange Bearing assembly	1	
17	9367017	Bearing spacer	1	
18	9367018	Bearing mounting plate	1	
19	9367019	Bolt M12X50	4	
20	9367020	Mounting plate connecting pin	8	
21	9367021	φ 6 earring pin	8	
22	9367022	Enlarged Flat washer 10	8	
23	9367023	Spring Washer 10	8	
24	9367024	Bolt M10X20	8	
25	9367025	Broom guard weldment	1	

Part no.	Serial no.	Description	REQ'D Quantity/unit	remarks
26	9367026	Bolt M10X90	1	
27	9367027	Pivot pin	1	
28	9367028	Adjusting Bolt	2	
29	9367029	Plastic bush ϕ 50.8	2	
30	9367030	Nut M20X1.5	2	
31	9367031	Spacer	2	
32	9367032	Retaining washer 50	1	
33	9367033	Oscillation limit plate I	1	
34	9367034	Oscillation rear pivot weldment	1	
35	9367035	Nut M10	2	
36	9367036	Bolt M14X40	8	
37	9367037	Oscillation limit plate II	1	
38	9367038	H-type high-pressure hose assembly	2	
39	9367039	End straight joint (hose fitting)	2	
40	9367040	1/2 Quick coupler	1SET	
41	9367041	3/8 Quick coupler	1	
42	9367042	End straight joint (hose fitting)	1	
43	9367043	H-type high-pressure hose assembly	1	
44	9367044	End straight joint (hose fitting)	2	
45	9367045	End straight joint (hose fitting)	1	

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Part no.	Serial no.	Description	REQ'D Quantity/unit	remarks
46	9367046	φ 5β Pin	2	
47	9367047	Support lock pin	2	
48	9367048	Support assembly	2	
49	9367049	Attachment plate assembly	1	
50	9367050	Oilless bearing 80x100x40	1	
51	9367051	Shaft cover	1	
52	9367052	Bolt M8X55	2	
53	9367053	Rotation limit shaft cover	1	