

OPERATION, MAINTENANCE AND PARTS MANUAL

FAST™ AP COULTER











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INTRODUCTION



Read this manual carefully before operating your FAST equipment. The information presented will prepare you to safely operate and service your machine. Require all operators to read

this manual carefully and be acquainted with all the operating and adjustment procedures before attempting to operate. Failure to follow the information in this manual and on decals may result in personal injury or equipment damage.

This manual should be considered a permanent part of this equipment and should remain with the equipment when you sell it. Replacement manuals can be obtained from your FAST dealer.

This equipment has been engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Inspect your equipment before putting it into service. Your authorized FAST dealer has trained mechanics, genuine FAST service parts, and the necessary tools and equipment when service is needed. Use only genuine FAST parts for service or repairs. Substitute parts will void the warranty and may not meet standards for safe and satisfactory operation.

Warranty is provided as part of FAST's support program for customers who operate and maintain their equipment as described in this manual. The warranty is explained on the warranty certificate you should have received from your dealer. This warranty provides you with the assurance that FAST will back its products where defects appear within the warranty period. Should the equipment be abused, or modified to change its performance beyond the original factory specifications, the warranty will become void.

These instructions have been compiled from field experience and engineering data. Some information may be general in nature, due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation. The illustrations and data used in this manual were current at the time of printing. However, due to possible in-line production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.





SAFETY

The most important safety devise on this equipment is a safe operator. It is the operator's responsibility to read and understand and follow all safety and operating instructions in this manual.

As the operator, you are responsible for the safe operation and maintenance of this equipment. You must ensure that you and anyone else who is going to operate, maintain or work around the machine is familiar with the operating and maintenance procedures and related safety information contained in this manual.

You are the key to safety. Good safety practices protect you and people around you. Be certain that everyone operating this equipment is familiar with the recommended operating and maintenance procedures and follows all safety precautions. Do not risk injury or death by ignoring good safety practices.

Safety Alert Symbols and Signal Words

Throughout this manual, the terms Caution, Warning, and Danger are used along with the safety alert symbol to indicate the degree personal safety hazard. The term Important is used to indicate that failure to observe can cause damage to the equipment.



SAFETY ALERT SYMBOL

A SAFETY ALERT SYMBOL means there is a hazard. Become Alert! Your Safety is Involved!



DANGER

The word DANGER indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



WARNING

The word WARNING indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION

The word CAUTION indicates a potentially hazardous situation that if not avoided may result in minor or moderate injury.

IMPORTANT

The word IMPORTANT indicates that failure to observe can cause damage to equipment.

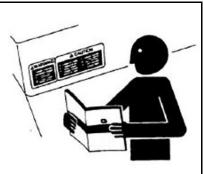
NOTE

The word NOTE indicates helpful information.





General Safety



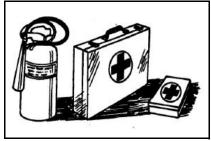
Carefully read and follow all safety messages in this manual and safety signs (decals) on equipment.

A safety sign may contain more than one hazard message and more than one avoidance panel.

Keep the equipment in proper working condition. Unauthorized modifications to the equipment may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your FAST dealer.

Prepare for Emergencies



Keep a fire extinguisher and first aid kit handy. Know how to use them.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.

Keep the Poison Control emergency telephone number for your area on equipment before using chemicals.

Have the chemical container and SDS available when seeking medical attention.

Personal Protection Equipment (PPE)



Wear close fitting clothing and safety equipment appropriate for the job.

Wear the appropriate protective clothing and devices as described on the chemical SDS sheet.





Handle Chemicals Safely

Direct exposure to hazardous chemicals can cause serious injury.

A Safety Data Sheet (SDS) (formerly Material Safety Data Sheet (MSDS)) provides specific details on chemical products: physical and health hazards, safety procedures, and emergency response techniques.

Read the chemical manufacturers warning, instructions and procedures before starting and follow them exactly.



Potentially hazardous chemicals are used with FAST equipment include such items

as lubricants, coolants, paints, and adhesives.

Check the SDS before you start any job using a hazardous chemical. That way you will know exactly what the risks are and how to do the job safely. Then follow procedures and recommended equipment.

Keep Riders Off Machine

Do not allow riders on the equipment or the tractor during operation or transport.

Riders are subject to injury from being struck by foreign objects, exposure to chemicals, and being thrown off the machine.

Riders obstruct the operator's view resulting in the machine being operated in an unsafe way.

Riders are subject to exposure to chemicals as they are being applied which could create a health hazard.

Maintenance Safety

Understand service procedures before starting work.

Keep service area clean and dry.

Never lubricate, service or adjust machine while it is moving. Keep hands, feet and clothing from powerdriven parts.

Lower equipment to the ground.

Relieve pressure before serving or disconnecting from the tractor.

Stop the engine. Remove the key. Allow the machine to cool.

Securely support all machine elements that must be raised for service work. Use tools, jacks, and hoists of sufficient capacity for the job.

Clear area of bystanders when making adjustments, servicing or repairing the equipment.

Use adequate lighting for the job.

Keep all parts in good condition and properly installed. Fix damaged components immediately. Replace worn and broken parts.

Remove any build-up of grease, oil, or debris.

Remove paint and any residue from solvents before welding or heating.







Waste Disposal Safety

Improper disposal of waste can threaten the environment and ecology. Potentially harmful waste used with FAST equipment includes oil, coolant, brake fluid, filters, and batteries.

Use leak-proof containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

Do not pour waste onto the ground, down a drain, or into any water source.

Follow instructions on chemical containers or SDS sheets for disposal of chemicals, containers, and water used for cleaning the equipment.

Safety Signs (Decals)

Keep safety signs in good condition.

Replace missing or damaged safety signs.

Be sure new equipment components and repair parts include the current safety signs.

Replacement signs are available from your FAST dealer.

Storage Safety

Store equipment away from human activity.

Do not allow children to play on or around the stored machine.

Lower the machine and securely block.

Transportation Safety

Obey all applicable laws and regulations for transporting equipment.

Operation Safety

Read and understand this Operator's Manual and all safety signs before using.

Before each use inspect the entire machine. Check tightness of nuts and bolt and fittings.

Keep hands, feet, hair, and clothing away from all moving parts.

Do not allow riders on the equipment or tractor.

Make sure everyone is clear of the machine before filling equipment tank, starting tractor engine or beginning operation.

Read chemical or fertilizer manufacturers warnings, instructions, and procedures before starting and follow them exactly.

Do not breathe, touch or ingest chemicals or fertilizers. Always wear protective clothing and follow safe handling procedures.

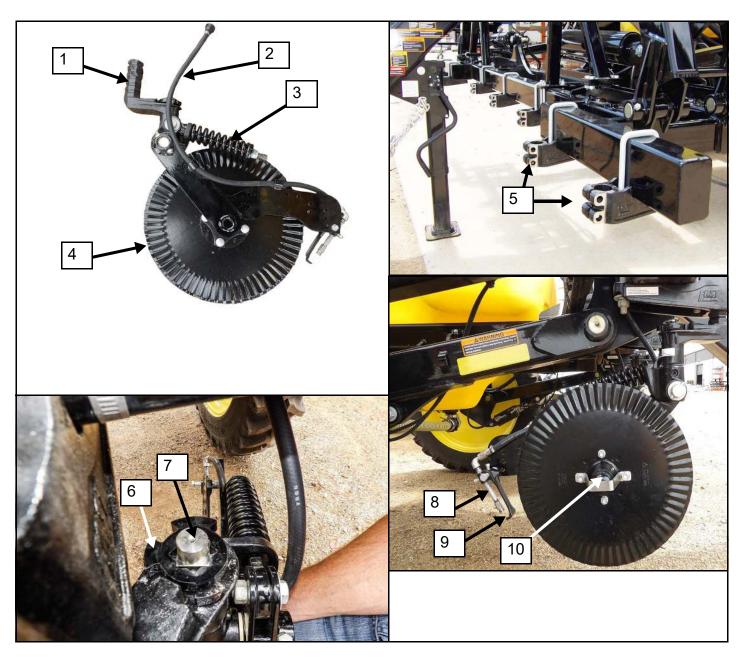




MAIN COMPONENTS

MAIN COMPONENTS

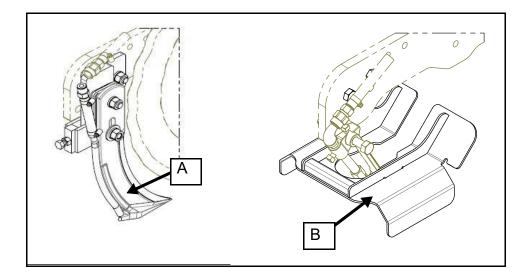
- 1. Octagon Shaft
- 2. Liquid Hose
- 3. Tension Spring
- 4. Coulter Blade
- 5. Coulter Mount
- 6. Coulter Rotation Plate
- 7. Square Shaft
- 8. Nozzle
- 9. Rock Guard
- 10.Hub







Optional A. Knife Assembly B. Defender®

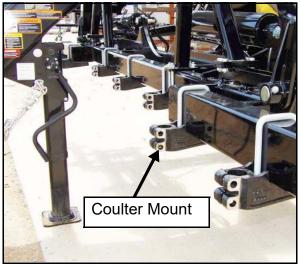






COULTER INSTALL

COULTER MOUNTS



- 1. Measure the position of each Coulter Mount. Adjust position as needed.
- 2. Torque to 270 N-m (200 ft-lbs.)



Nut and washer arrangement for Coulter Mount.

INSTALL THE COULTER

The octagon shaft set forward is the standard position, but the shaft can be rotated as needed to provide mounting clearance.

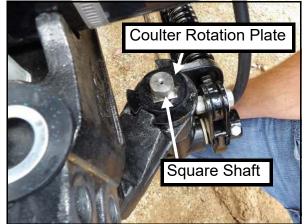
The coulter offset can be positioned in 45 degree increments by the Octagon Shaft in the Coulter Mount.

45 degrees = 89 mm (3.5") offset 90 degrees = 127 mm (5") offset

The range of swing motion can be set by positioning the Coulter Rotation Plate on the square shaft. The Coulter Rotation Plate can be flipped upside down for more range options. See "COULTER ADJUSTMENT" on page 10.



Coulter in line with mount



Coulter rotated 45° with Coulter Rotation Plate positioned for no rotation.



COULTER INSTALL





3. Lift the Coulter and insert the octagon shaft into the mount.



4. Raise the Coulters to the desired height.



5. Adjust the Coulter height to allow both cross bolts to be installed in line with the grooves in the octagon shaft.



- 6. Torque to 285 N-m (210 ft-lbs). Increase torque until the Octagon Shaft does not wiggle in the Coulter Mount.
- 7. Repeat to install all Coulters.

NOTE: Refer to the equipment manual for the for plumbing instructions.







COULTER ADJUSTMENT

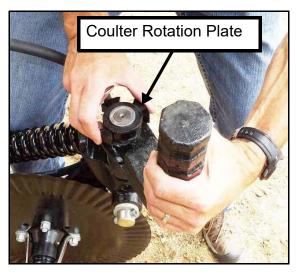
ADJUST COULTER SIDE TO SIDE MOVEMENT



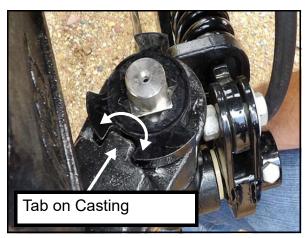
1. Adjust the side to side movement of the Coulter by removing the pin.



2. Remove the washers.



- 3. Turn the Coulter and adjust the position of the Coulter Rotation Plate.
 - •The Coulter Rotation Plate can be flipped over for more range of motion options.
- 4. Set the Coulter Rotation Plate against the tab on the Octagon Shaft to adjust the range of side to side movement of the Coulter.



No side to side movement







Limited side to side movement



Maximum side to side movement

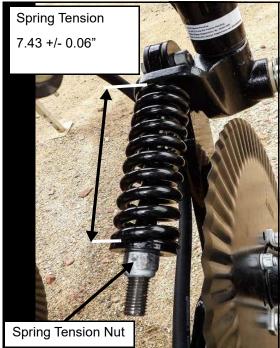


5. Reinstall the washer and pin.

ADJUST COULTER DOWN PRESSURE

The Coulter down pressure is obtained by the pressure spring.

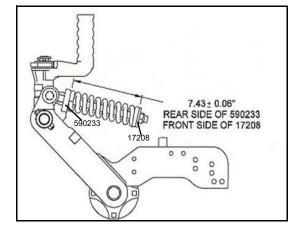
NOTE: Down pressure has been preset at the factory.



Adjust down pressure with the tension spring nut.

- •Tighten to increase pressure.
- •Loosen to decrease pressure.
- •Tension until spring measures
- 7.43 +/- 0.06" (18.87+/- 0.15 cm).

NOTE: For every 1/4" of extra spring compression coulter vertical travel is reduced by 1".



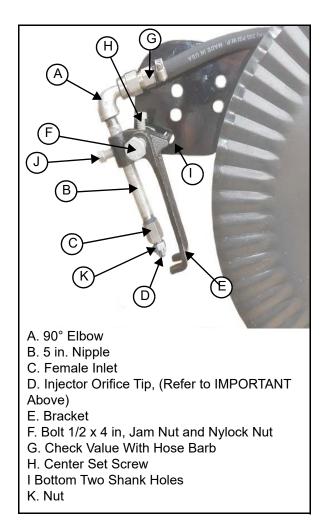




INJECTOR NOZZLE ASSEMBLY

Organize all injector parts on table. Use liquid thread sealer on all threads.

IMPORTANT: There are two orifice tip sizes depending upon the machine configuration and application rate. The bag containing ONLY TWO ORIFICE TIPS ALWAYS GO TO THE OUTSIDE END COULTERS. The remaining tips go to all other coulters.

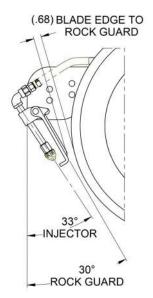


- 6. Install injector assembly in bottom two shank holes (I).
- 7. Tighten Nylock nut and jam nut.

ADJUST INJECTOR NOZZLE

For best performance the Injector Nozzle should be adjusted so that it puts the stream of liquid directly into the slot the Coulter Blade made.





1. Visually site the injector Nozzle position related to the Coulter. To adjust the Nozzle angle:

•Loosen setscrew (H) to adjust the Nozzle angle and center the stream about 50 mm (2 in.) or as close as practical behind the Coulter Blade.

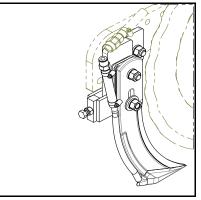
- 2. To adjust the Nozzle height:
 - •Loosen setscrew (J) to adjust the Nozzle height. The Nozzle tip should not extend past the Rock Guard.
- 3. Turn on the system and test stream position.
- 4. Adjust as needed.





COULTER KNIFE ASSEMBLY

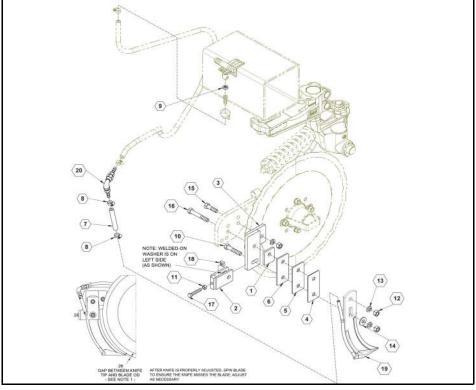
COULTER KNIFE ASSEMBLY



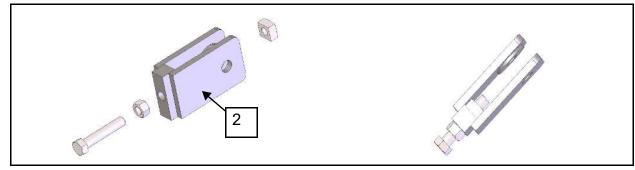
The optional Coulter Knife Assembly may be installed in place of the injector nozzle.

For best results use the same type of injector on all Coulters.

Install the Coulter Knife Assembly



1. Insert the 3/8 x 2" bolt through the knife adjuster. Secure using a 3/8" jam nut on the outside and a 3/8" square nut on the inside. See "AP Coulter Knife Option Assembly" on page 32. for part identification.

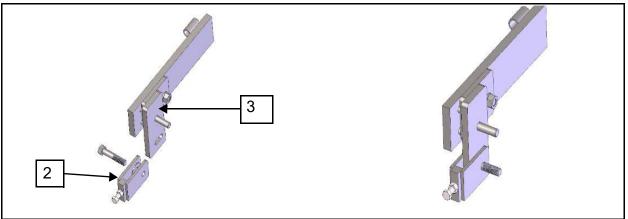




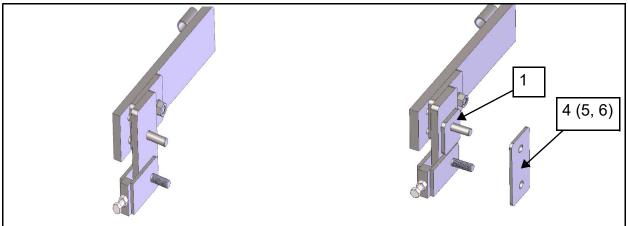


COULTER KNIFE ASSEMBLY

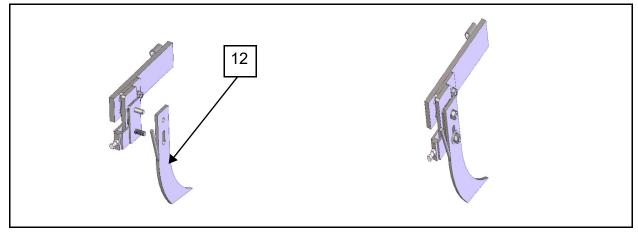
2. Install the knife mount (3) on to the coulter arm using ½" bolts. Secure from bolt with ½" lock washer and nut. Attach the knife adjuster (2) to the knife mount using a ½ x 2" bolt (11). Make sure the welded in washer is on the left side.



3. Add the ¼" shim (1) to the top knife mount bolt. Add additional shims (4,5,6) as needed to align the knife behind the coulter blade.



4. Install the knife (12) and loosely secure with ½" lock washers and nuts. Use a ½" flat washer on the lower knife slot.

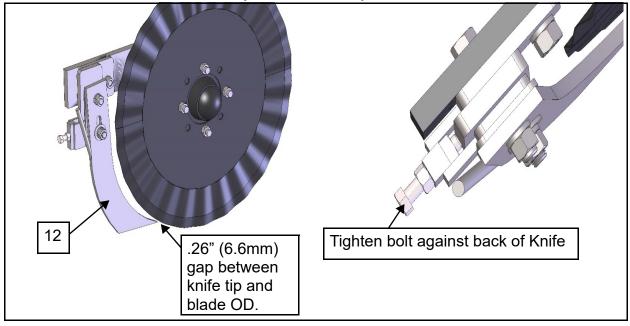






ADJUST THE KNIFE ASSEMBLY

- 1. Adjust the knife (12) so that there is a small gap between the blade and knife tip. Tighten the ½" nuts.
- 2. Adjust the 3/8" bolt on the knife adjuster so that it is tight against the knife mount. Tighten the 3/8" jam nut to secure.
- 3. After knife is properly adjusted with .26" (6.6mm) gap between knife tip and blade OD, spin blade to ensure the knife misses the blade, adjust as necessary.

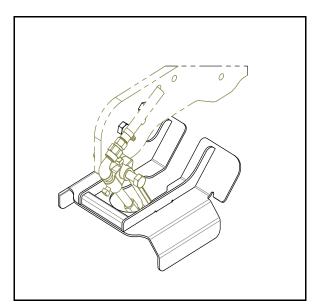






DEFENDER®

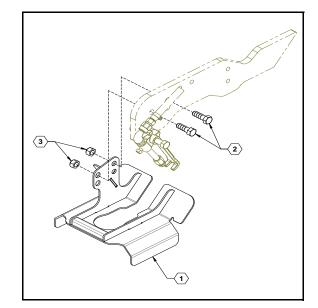
DEFENDER®



The optional Defender® is used to shield plants from airborne soil caused by Coulter rotation.

The Defender® is used with the injector nozzles.

Install the DEFENDER®



See "DEFENDER® for Injection Assembly" on page 31. for part identification.

- 1. Fit the Defender® (1) around the Injector Nozzle and Rock Guard.
- 2. Install the two bolts (2) with the bolt heads toward the Injector nozzle.
- 3. Install the Toplock nuts.
- 4. Adjust height by using the upper or lower mounting holes.





MAINTENANCE



1. Grease Coulter hubs through the provided zerks every 100 hours of use, before and after storage.



- 2. Inspect Coulters for damage before use and frequently when working in rocky conditions.
- 3. Replace bent, chipped or broken coulter blades.
 - •Remove the 4 nuts and hub guard.
 - •Remove the damaged coulter blades.
 - •Install the new coulter blade.
 - •Reinstall the hub guard and all 4 nuts.
 - •Torque to 75 N-m (55 ft-lbs.)









MAINTENANCE PAGE 18



ILLUSTRATED PARTS LIST

The following illustration and parts list should be used to order parts for repairs. When ordering parts, match the item number in the illustration with the item number on the parts list, and then order using the part number following the item number in the parts list. When ordering, have your equipment serial number available, if applicable.

Explanation Of Parts Lists

•

The parts lists are broken down sub assemblies and listed in 4 columns:

- ITEM These numbers are found on the illustration associated with the parts list.
 •NS- This item is NOT SHOWN, included for reference.
 - QTY. This is the quantity of parts needed in an assembly.
- •AR- The quantity of this item is AS REQUIRED for the location.
- PART NO.- These are the part numbers associated to the ITEM.
- DESCRIPTION This is the description of the part.

Parts List Table of Contents

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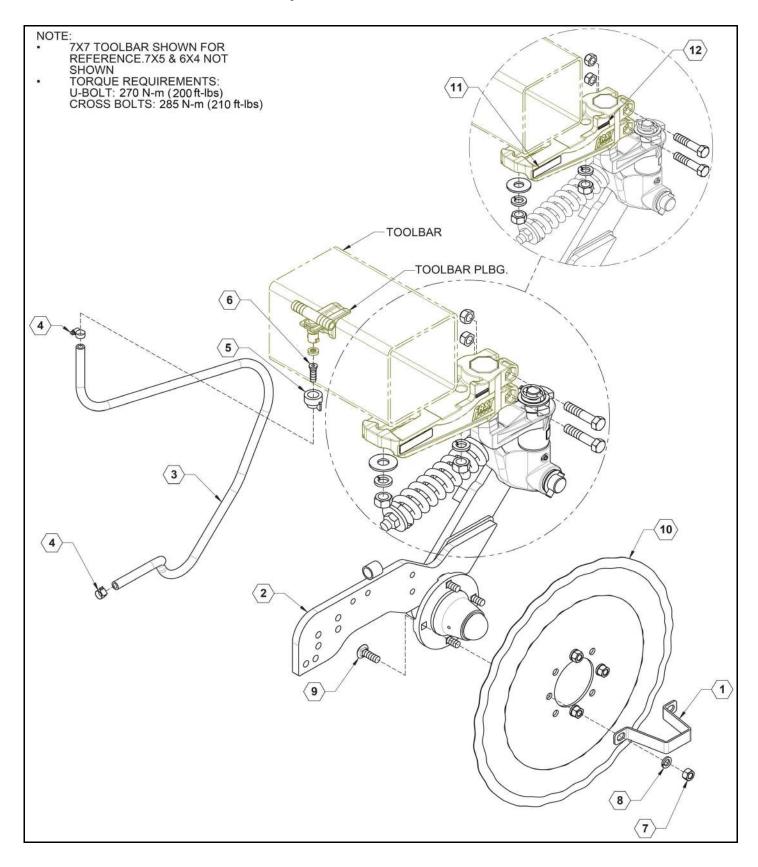




ILLUSTRATED PARTS LIST PAGE 20



AP Coulter Row Unit Base Assembly







AP Coulter Row Unit Base Assembly Parts List

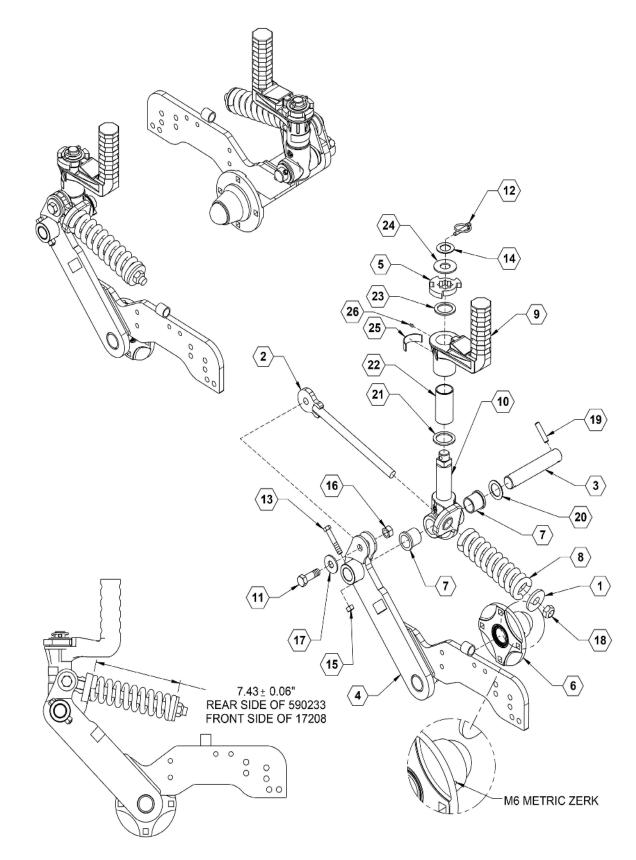
ITEM	PART NO.	QTY.	DESCRIPTION
1	17214	1	HUB RETAINER BRACKET
2	17300	1	ASSEMBLY, AP COULTER ROW UNIT
3	510020	AR	HOSE, 3/8", EPDM
4	540032	2	CLAMP, HOSE SS 5/16" #5
5	590076	1	CAP
6	590077	1	CONNECTOR, HOSE BARB
7	596215M	4	NUT, HEX 1/2 NC GR5 MAGNI
8	596251M	4	WASHER, LOCK, 1/2 MAGNI
9	596620M	4	BOLT, CARR, 1/2X 1-1/2 GR5 MAGNI
10	750014	1	COULTER BLADE, 20" RIPPLED
11	800198	1	DECAL, UPPER MOUNT PATENT
12	800209	1	DECAL, D FAST GLOBAL SOLUTIONS





ILLUSTRATED PARTS LIST

AP Coulter Row Unit Cast Coulter Assembly







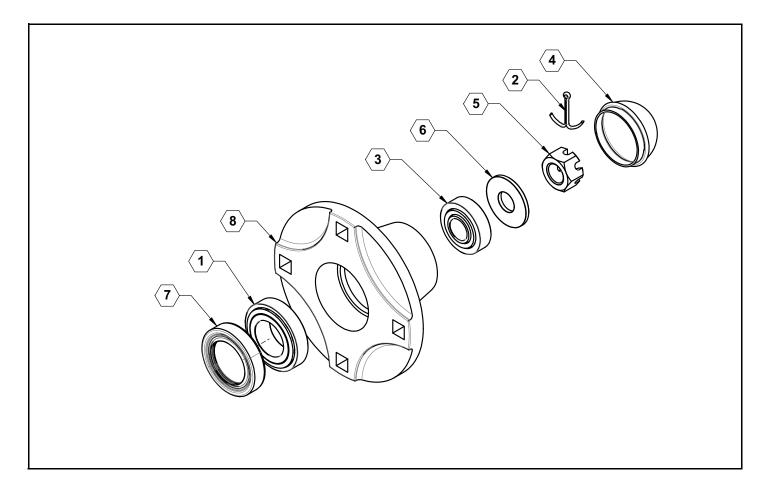
AP Coulter Row Unit Cast Coulter Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	17208	1	PLATE, SPRING END
2	17276	1	SPRING LEVER
3	17291	1	PIVOT SHAFT
4	17293	1	COULTER ARM
5	21088	1	PLATE, COULTER ROTATION
6	26891	1	N669 HUB ASSEMBLY
7	530328	2	IGUS FLANGED BUSHING
8	590123	1	COULTER SPRING
9	590232	1	MID CASTING
10	590233	1	LOWER CASTING
11	590260	1	BOLT, HH 5/8 X 2 SPECIAL, MAGNI
12	590819M	1	LYNCH PIN, 5/16 X 1-3/4 MAGNI
13	596143M	1	BOLT, HH 7/16X2-1/2 GR5 MAGNI
14	596179M	1	BUSHING, MACHINED 1" X 14GA MAGNI
15	596238M	1	NUT, CENTERLOCK 7/16-14 MAGNI
16	596240M	1	NUT, CENTERLOCK, 5/8-11 MAGNI
17	596261M	1	WASHER, FLAT 5/8 MAGNI
18	596626M	1	NUT, TOPOCK 3/4-10 MAGNI
19	596740M	1	ROLL PIN, 7/16 X 2 MAGNI
20	596744M	1	BUSHING, MACHINED, 1-1/4 x 14 GA MAGNI
21	750081	1	COULTER WASHER
22	750082	1	COULTER PIVOT BUSHING
23	750085	1	LOWER DUST CAP WASHER
24	750086	1	UPPER DUST CAP WASHER
25	800197	1	DECAL, SHANK PATENT
26	759	1	ZERK, 1/4-28 STRAIGHT





N669 Complete Hub W/ Square Hole w/ Triple Seal Assembly



N669 Complete Hub w/ Square Hole w/ Triple Seal Parts List

ITEM	FAST PART NO.	VENDOR PART NO.	QTY.	DESCRIPTION
1	730032		1	BEARING AND RACE, LG LM67048,
1		LM67048	1	BEARING
1		LM67010	1	RACE
2	730033		1	COTTER PIN, N669, 4-BOLT
3	730036		1	BEARING AND RACE, SM LM11949,
3		LM11949	1	BEARING
3		LM11910	1	RACE
4	730044		1	HUB CAP, (699/736) HUB
5	730088		1	CASTLE NUT 4-BOLT, 5/8-18
6	730096		1	WASHER, NSS9 4-BOLT
7	730102		1	SEAL, TRIPLE LIP ID
8	730104		1	HUB, W/ CUPS, 4 BOLT, N669







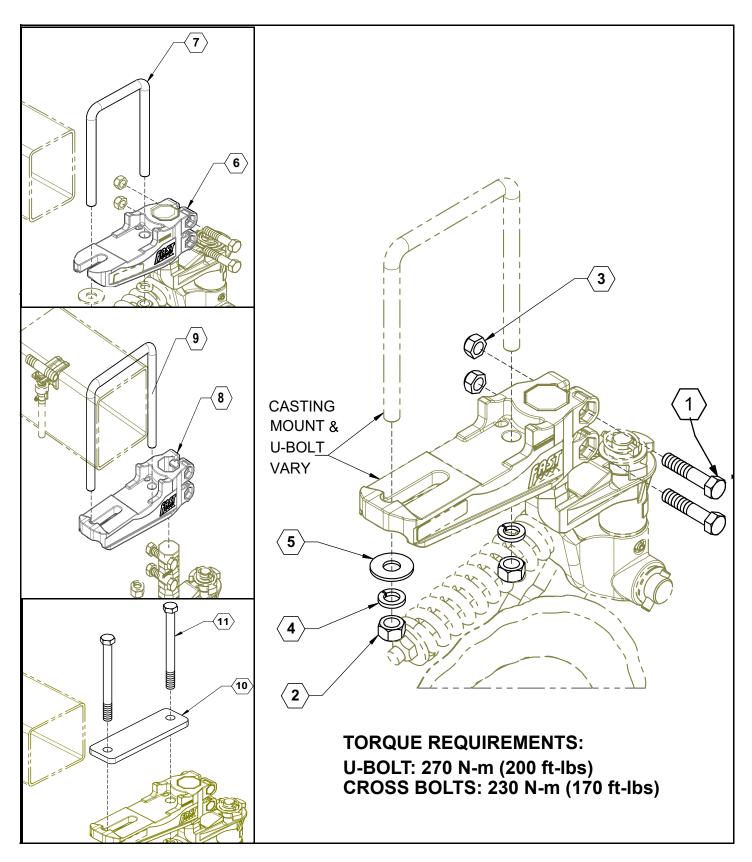


ILLUSTRATED PARTS LIST PAGE 26



ILLUSTRATED PARTS LIST

AP Coulter Upper Casting Mounts







AP Coulter Upper Casting Mounts Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	596779M	2	BOLT, G8 HEX 5/8 X 3 MAGNI
2	596217M	2	NUT, HEX 3/4-10 MAGNI
3	596243M	2	NUT, G8 TOPLOCK 5/8-11 MAGNI
4	596254M	2	LOCKWASHER 3/4 MAGNI
5	596259M	1	WASHER, FLAT 3/4 MAGNI
6	590310	1	MOUNT CASTING AP COULTER
7	596773M	1	U-BOLT, 7 X 5 MAGNI
	596772M	1	U-BOLT, 6 X 4 MAGNI
8	590231	1	MOUNT CASTING, 7X7 TB
9	596774M	1	U-BOLT, 7 X 7 MAGNI
10	17284	1	PLATE, TOP
11	596197M	2	BOLT, 3/4-10 X 9-1/2 MAGNI

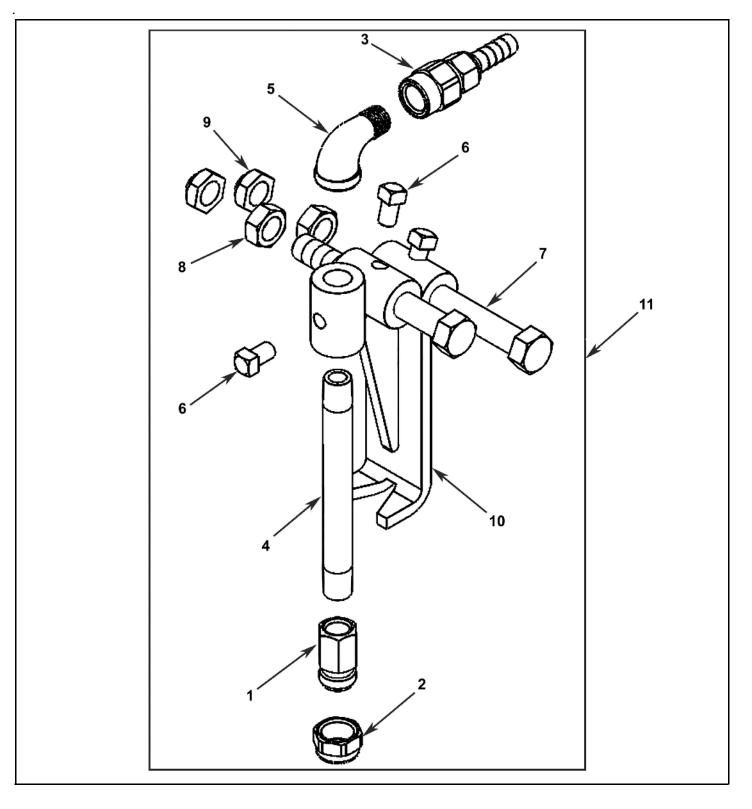




Injector and Knife Options

FAST AP Coulter Injection Option Assembly

No closing wheel







FAST AP Coulter Injection Option Parts List

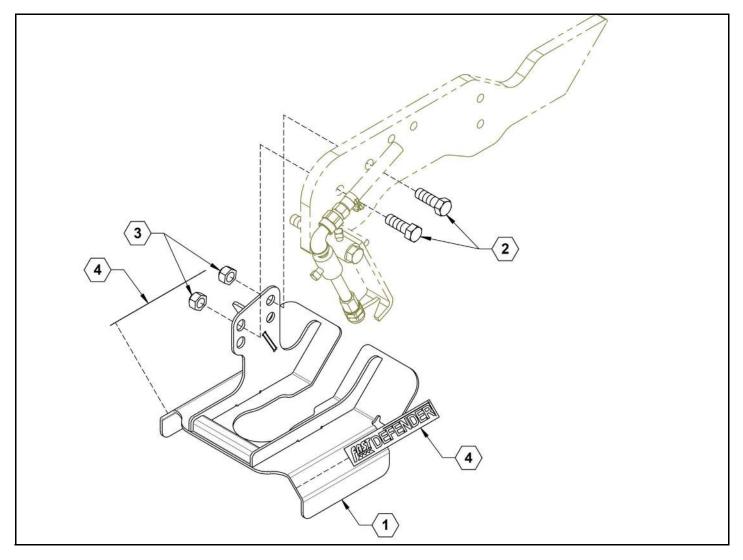
ITEM	PART NO.	QTY.	DESCRIPTION
1	520014	1	NOZZLE BODY, 1/4" SS
2	520015	1	NOZZLE CAP, SS
3	530188	1	CHECK VALVE ASSEMBLY
4	530199	1	PIPE NIPPLE, 1/4" SS
5	530246	1	ELBOW, 90° STREET 1/4 NPT SS
6	596100M	3	SET SCREW, 3/8-16X 1/2 MAGNI
7	596158M	2	BOLT, HH 1/2 X 4 GR5 MAGNI
8	596223M	2	NUT, HEX JAM 1/2-13 MAGNI
9	596618M	2	NUT, TOPLOCK THIN 1/2-13 MAGNI
10	750089	1	ROCK GUARD, CAST
11	90SAINJ	AR	COMPLETE INJECTOR ASSEMBLY
NS	520049	AR	#8 STREAM JET TIP
NS	520056	AR	#10 STREAM JET TIP
NS	520034	AR	#15 STREAM JET TIP
NS	520035	AR	#20 STREAM JET TIP
NS	TJTP0030SS	AR	#30 STREAM JET TIP
NS	TJTP0040SS	AR	#40 STREAM JET TIP





ILLUSTRATED PARTS LIST

DEFENDER® for Injection Assembly



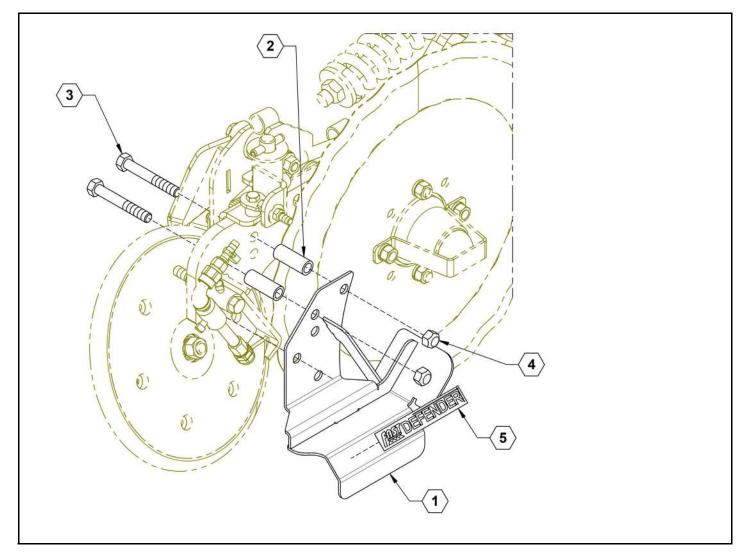
DEFENDER® for Injection Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	21805	1	COULTER DEFENDER®
2	596153M	2	BOLT, HH 1/2-13X1-1/2 GR5 MAGNI
3	596619M	2	NUT, TOPLOCK 1/2-13 MAGNI
4	800273	2	DECAL, FAST DEFENDER®





DEFENDER® for Injection Assembly, With Closing Wheel



DEFENDER® for Injection, With Closing Wheel Parts List

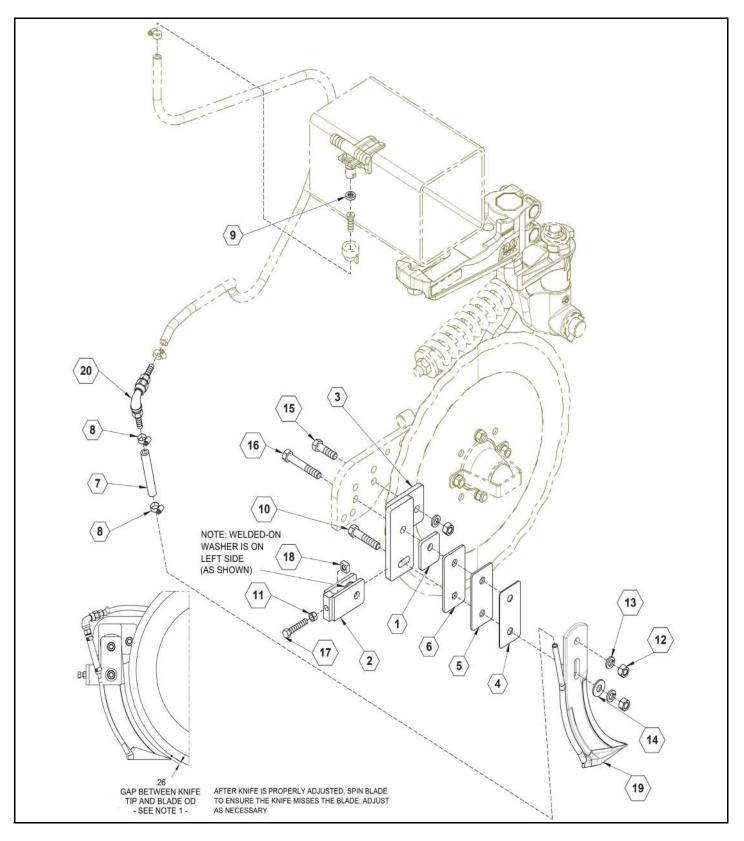
ITEM	PART NO.	QTY.	DESCRIPTION
1	26232	1	COULTER DEFENDER®
2	26236	2	TUBE, SPACER COULTER DEFENDER®
3	596157M	2	BOLT, HH 1/2X3-1/2 GR5 MAGNI
4	596619M	2	NUT, TOPLOCK 1/2-13 MAGNI
5	800273	1	DECAL, FAST DEFENDER®





ILLUSTRATED PARTS LIST

AP Coulter Knife Option Assembly, 2019 and Before







AP Coulter Knife Option, 2019 and Before Parts List

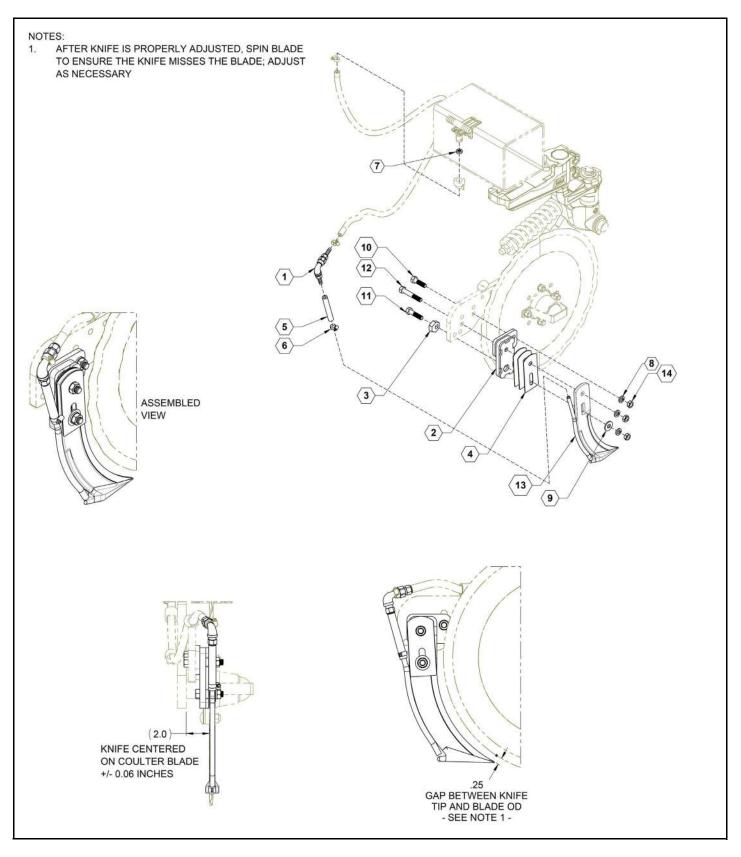
ITEM	PART NO.	QTY.	DESCRIPTION
1	17909	1	PLATE, SHIM SPACER
2	17910	1	KNIFE ADJUSTER BRACKET
3	17915	1	KNIFE MOUNT
4	17920	1	KNIFE SHIM, 14 GA
5	17921	1	KNIFE SHIM, 10 GA
6	17922	1	KNIFE SHIM, 7 GA
7	510020	1	HOSE, 3/8", EPDM
8	540032	2	CLAMP, HOSE SS 5/16" #5
9	590029	1	SEAL, EPDM
10	596155M	1	BOLT, HH 1/2 X 2.5" GR5 MAGNI
11	596213M	1	NUT, HEX 3/8" MAGNI
12	296215M	3	NUT, HEX 1/2" MAGNI
13	596251M	3	WASHER, LOCK, 1/2 MAGNI
14	596260M	1	WASHER, FLAT 1/2" MAGNI
15	596639M	1	BOLT, HH 1/2 X 1.75" GR5 MAGNI
16	596640M	1	BOLT, HH 1/2 X 3.25" GR5 MAGNI
17	596660M	1	BOLT, HH 3/8 X 2" FT GR5 MAGNI
18	596762M	1	NUT, SQUARE 3/8" MAGNI
19	750003	1	KNIFE, EXTRA THIN W/ 3/8"PIPE
20	90SACLYKNFCHCKVLV	1	KNIFE CHECK VALVE ASSEMBLY
NS	CP491663	AR	#63 ORIFICE DISK
NS	CP491665	AR	#65 ORIFICE DISK
NS	CP491672	AR	#72 ORIFICE DISK
NS	CP491675	AR	#75 ORIFICE DISK
NS	CP491677	AR	#77 ORIFICE DISK
NS	CP491678	AR	#78 ORIFICE DISK
NS	CP491680	AR	#80 ORIFICE DISK
NS	CP491689	AR	#89 ORIFICE DISK
NS	CP491691	AR	#91 ORIFICE DISK
NS	CP491693	AR	#93 ORIFICE DISK
NS	CP4916103	AR	#103 ORIFICE DISK
NS	CP4916107	AR	#017 ORIFICE DISK
NS	CP4916115	AR	#115 ORIFICE DISK
NS	CP4916125	AR	#125 ORIFICE DISK
NS	CP4916132	AR	#132 ORIFICE DISK
NS	CP4916144	AR	#144 ORIFICE DISK
NS	CP4916151	AR	#151 ORIFICE DISK
NS	CP4916177	AR	#177 ORIFICE DISK





ILLUSTRATED PARTS LIST

AP Coulter Knife Option Assembly, 2020 and After







AP Coulter Knife Option, 2020 and After Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	90SACLYKNFCHCKVLV	1	KNIFE CHECK VALVE ASSEMBLY
2	28186	1	WLDMNT, KNIFE ADJUST BASE
3	28190	1	BLOCK, KNIFE ADJUSTMENT
4	28191	3	PLATE, KNIFE SHIM
5	510020	1	HOSE, 3/8" EPDM X .33 FT
6	540032	1	CLAMP, HOSE SS 5/16" #5
7	590029	1	SEAL, EPDM
8	596251M	3	WASHER, LOCK 1/2" SS
9	596260M	1	WASHER, FLAT 1/2 SS
10	596839	1	BOLT, HH 1/2" X 1-3/4" SS
11	596840	1	BOLT, HH 1/2" X 2 SS
12	596842	1	BOLT, HH 1/2 X 3 SS
13	750003	1	KNIFE, EXTRA THIN W/ 3/8"PIPE
14	750009	3	NUT, JAM, 1/2" SS
NS	CP491663	AR	#63 ORIFICE DISK
NS	CP491665	AR	#65 ORIFICE DISK
NS	CP491672	AR	#72 ORIFICE DISK
NS	CP491675	AR	#75 ORIFICE DISK
NS	CP491677	AR	#77 ORIFICE DISK
NS	CP491678	AR	#78 ORIFICE DISK
NS	CP491680	AR	#80 ORIFICE DISK
NS	CP491689	AR	#89 ORIFICE DISK
NS	CP491691	AR	#91 ORIFICE DISK
NS	CP491693	AR	#93 ORIFICE DISK
NS	CP4916103	AR	#103 ORIFICE DISK
NS	CP4916107	AR	#017 ORIFICE DISK
NS	CP4916115	AR	#115 ORIFICE DISK
NS	CP4916125	AR	#125 ORIFICE DISK
NS	CP4916132	AR	#132 ORIFICE DISK
NS	CP4916144	AR	#144 ORIFICE DISK
NS	CP4916151	AR	#151 ORIFICE DISK
NS	CP4916177	AR	#177 ORIFICE DISK

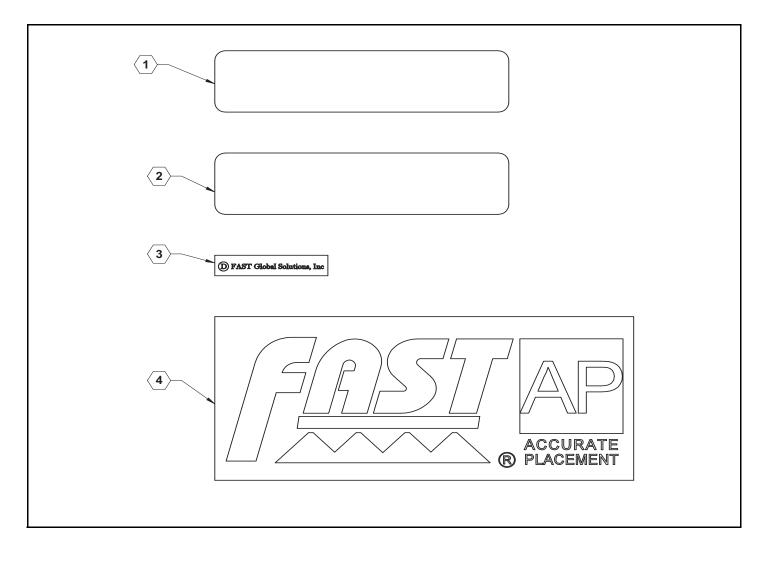




ILLUSTRATED PARTS LIST

Decals

Decal Assembly



FAST Decal Assembly Parts List

ITEM	PART NO.	QTY.	DESCRIPTION
1	800197	1	SHANK PATENT DECAL
2	800198	1	DECAL, UPPER MOUNT PATENT
3	800209	1	DECAL, D FAST GLOBAL SOLUTIONS
4	800210	1	DECAL, FAST AP COULTER LOGO



NOTES



FAST GLOBAL SOLUTIONS 4130 Commerce Boulevard Windom, MN 56101 1-800-772-9279 Toll Free 1-507-427-3861 Voice 1-507-427-3030 Fax www.fastsprayers.com