abi ATTACHMENTS

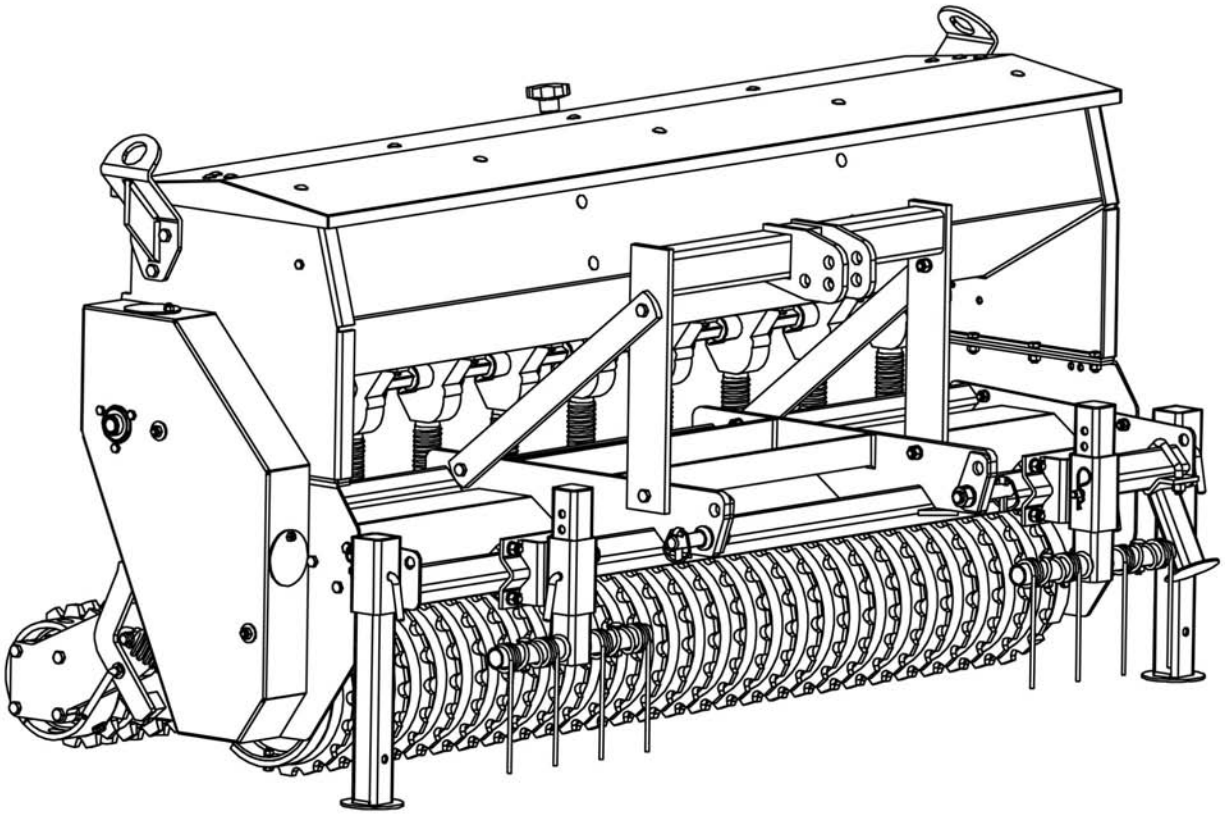
Operator's Manual

COMMAND SEEDER

Full-width primary seeder

ASR74CSTRL

(serial #328120 & above)



The operator's manual is a technical service guide and must always accompany the machine.

Manual 980-396B
January 2017

SAFETY

Take note! This safety alert symbol found throughout this manual is used to call your attention to instructions involving your personal safety and the safety of others. Failure to follow these instructions can result in injury or death.

This symbol means:
ATTENTION!
BECOME ALERT!
YOUR SAFETY IS INVOLVED!

Signal Words

Note the use of the signal words DANGER, WARNING and CAUTION with the safety messages. The appropriate signal words for each have been selected using the following guidelines:

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

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1 - GENERAL INFORMATION

Thank you and congratulations for having chosen our implement. Your new Command Seeder is a technologically advanced machine constructed of high quality, sturdy components that will fulfill your working expectations.
The Command Seeder is the ideal machine for commercial contractors and anywhere the combination of lower labor costs and a professionally finished job is essential.
Read this manual carefully. It will instruct you on how to operate and service your implement safely and correctly. Failure to do so could result in personal injury and/or equipment damage.

1.01 - General

CAUTION: Unless otherwise specified, all hardware is metric. Use only metric tools on metric hardware. Other tools that do not fit properly can slip and cause injury.

CAUTION: Right hand and left hand sides of the implement are determined by facing in the direction the implement will travel when going forward (see fig. 2).

1.02 - Warranty Information

Carefully read the Warranty section, detailing coverage and limitations of this warranty. **Warranty** is provided for customers who operate and maintain their equipment as described in this manual.

Warranty does not cover the following:
1. Cleaning, transporting, mailing and service call charges.
2. Normal wear items such as chains, cultipacker rings, seed cups, bearings, etc.
3. Depreciation or damage caused by normal wear, accidents, improper maintenance, improper protection or improper use.
4. The use of non-original spare parts and accessories.

1.03 - Model and Serial Number ID

Attached to the frame is an ID plate showing the model and the serial number. Record your implement model and serial number in the space provided below. ABI needs this information to give you prompt, efficient service when you order parts.

Model:	
Serial:	
Version:	

2 - SAFETY PRECAUTIONS

Safety is the primary concern in the design and manufacture of our products. Unfortunately our efforts to provide safe equipment can be wiped out by a single careless act of an operator.
In addition to the 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. It is the operator's responsibility to read and understand all safety and operating instructions in the manual and to follow these.
Allow only properly trained personnel to operate the implement. Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operation, to acquaint yourself with the machines. It is the implement owner's responsibility, if this machine is used by any person other than yourself, is loaned or rented, to make certain that the operator, prior to operating, reads and understands the operator's manuals and is instructed in safe and proper use.

2.01 - Preparation

1. Before operating equipment read and understand the operator's manual and the safety signs **(see fig. 2)**.
2. Thoroughly inspect the implement before initial operation to assure that all packaging materials, i.e., wires, bands, and tape have been removed.
3. Personal protection equipment including hard hat, safety glasses, safety shoes, and gloves are recommended during assembly, installation, operation, adjustment, maintaining and/or repairing the implement.
4. Operate the implement only with a tractor equipped with an approved Roll-Over-Protective-System (ROPS). Always wear your seat belt. Serious injury or even death could result from falling off the tractor.
5. Clear area to be cut of stones, branches or other debris that might be thrown, causing injury or damage.
6. Operate only in daylight or good artificial light.
7. Ensure the implement is properly mounted, adjusted and in good operating condition.
8. Ensure that all safety shielding and safety signs are properly installed and in good condition.

2.02 - Starting and Stopping

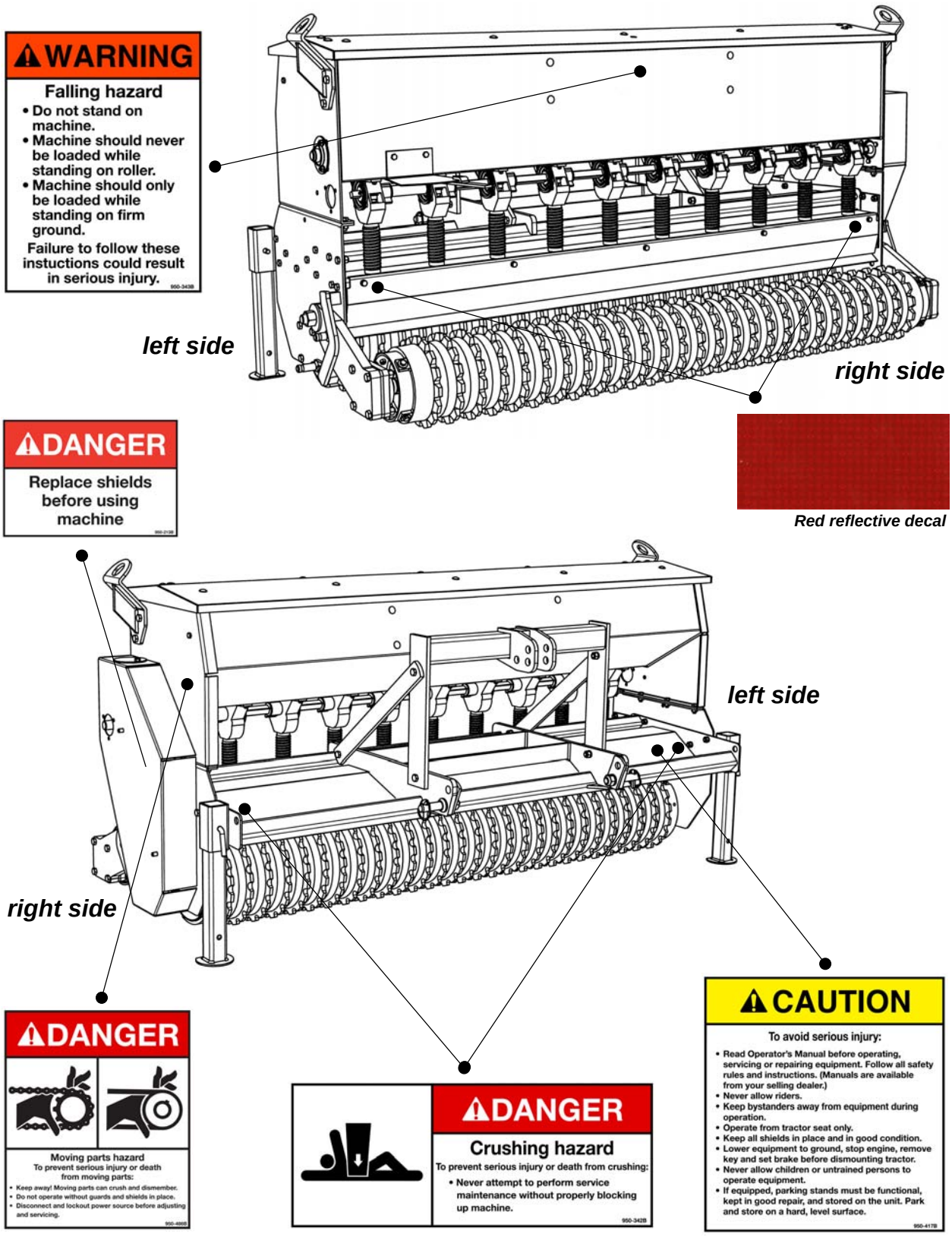
1. Be sure that no one is near the machine prior to engaging or while the machine is working.
2. Be sure the tractor is in "Neutral" before starting engine.
3. Equipment operating power is ground driven. Know how to stop the tractor quickly in case of an emergency.
4. After striking an obstacle, shut the tractor off, remove key and thoroughly inspect for damage before restarting.

2.03 - Messages and Signs

1. Read and adhere to all safety and operating decals on this machine **(see fig. 2)**.
2. Before dismounting tractor: Allow moving parts to stop, stop engine, set brake and remove the key of unattended equipment.
3. Keep away from rotating parts.
4. Keep guards and shields in place and in good condition.
5. Do not use with bystanders in area.
6. Allow no riders on tractor or implement.
7. Allow moving parts to stop before repair.
8. Securely support implement before working underneath.

Additional warning and operating decals are available at no extra charge. Please specify model and serial number when ordering.

Fig. 2 - Safety decals; replace immediately if damaged.



3 - OPERATION

The Command Seeder is a primary full width seeder ideal for seeding a wide variety of grasses in lawns, golf courses, parks, sports fields and hay fields. Seeds are precisely metered and placed at the ideal depth for proper seed germination.
Engineered for tractors ranging from 25 to 70 HP, the Command Seeder has a working width of 74". The seeder features a 6.7 cu. ft. capacity hopper equipped with 10 high precision metering seed cups made of a special nylon/fiberglass composite that allows them to work in both extremely warm or cold climates. The seed cups are placed 7" apart to allow a uniform seed distribution across the full width of the machine.
The forward movement of the front cultipacker turns the chain transmission on the right side of the machine which engages the metering cups and agitator inside the hopper. This allows the machine to spread seed only while it is in movement and therefore avoids any seed going to waste.
The front cultipacker evens out the surface and prepares the seed bed while the smaller rear cultipacker helps incorporate the seed into the ground and gently applies pressure through the 2 side springs to firm the surface after the seed has been placed.

3.01 - Operational Safety

CAUTION: Our machines are designed considering safety as the most important aspect and are the safest available in today's market. Unfortunately, human carelessness can override the safety features built into our machines. Injury prevention and work safety, aside from the features on our seeders, are very much due to the responsible use of the equipment. It must always be operated prudently following with great care, the safety instructions laid out in this manual.

1. The use of this equipment is subject to certain hazards which cannot be prevented by 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.
2. Do not operate the tractor and implement when you are tired, sick or when using medication.
3. Keep all helpers and bystanders at least 50 feet from the machine. Only properly trained people should operate this machine.
4. The majority of accidents involve operators being knocked off the tractor by low hanging limbs and then being run over by the implement. Accidents are most likely to occur with machines that are loaned or rented to someone who has not read the operator's manual and is not familiar with the implement.

5. Always stop the tractor, set brake, shut off the tractor engine, remove the ignition key, lower implement to the ground and allow rotating parts to come to a complete stop before dismounting tractor. Never leave equipment unattended with the tractor running.
6. Never place hands or feet under implement with tractor engine running or before you are sure all motion has stopped. Stay clear of all moving parts.
7. Do not reach or place yourself under equipment until it is blocked securely.
8. Do not allow riders on the implement or tractor at any time. There is no safe place for riders.
9. Do not operate unless all personnel, livestock and pets are 50 feet away to prevent injury by thrown objects.
10. Before backing up, disengage the implement and look behind carefully.
11. Install and secure all guards and shields before starting or operating.
12. Keep hands, feet, hair and clothing away from moving parts.
13. Never operate tractor and implement under trees with low hanging limbs. Operators can be knocked off the tractor and then run over by the implement.
14. Stop implement immediately upon striking an obstruction. Turn engine off, remove key, inspect and repair any damage before resuming operation.
15. Stay alert for holes, rocks and roots in the terrain and other hidden hazards. Keep away from drop-offs.
16. Use extreme care and maintain minimum ground speed when transporting on hillside, over rough ground and when operating close to ditches or fences. Be careful when turning sharp corners.
17. Reduce speed on slopes and sharp turns to minimize tipping or loss of control. Be careful when changing directions on slopes. Do not start or stop suddenly on slopes. Avoid operation on steep slopes.
18. When using a unit, a minimum 20% of tractor and equipment weight must be on tractor front wheels. Without this weight, tractor could tip over, causing personal injury or death. The weight may be attained with a front end loader, front wheel weights, ballast in tires or front tractor weights. When attaining a minimum 20% of tractor and equipment weight on the front wheels, you must not exceed the ROPS weight certification. Weigh the tractor and equipment. Do not guess or estimate!
19. Inspect the entire machine periodically[1]. Look for loose fasteners, worn or broken parts, and leaky or loose fittings.
20. Pass diagonally through sharp dips and avoid sharp drops to prevent "hanging up" tractor and implement.
21. Avoid sudden starts and stops while traveling up or downhill.
22. Always use down slopes; never across the face. Avoid operation on steep slopes. Slow down on sharp turns and slopes to prevent tipping and/or loss of control.

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[1] See Chapter 4 - Maintenance.

3.02 - Pre-Operational Check

Although the machine usually arrives set up, ready to use, it is important to check certain aspects of the machine before using it. Adjustments are normally necessary in order to adapt the Command Seeder to work under a given condition.

CAUTION: Stand clear of bands when cutting as they could be under sufficient tension to cause them to fly loose. Take care in removing bands and wire. They often have extremely sharp edges and cut very easily.

DANGER: Never trust the tractor hydraulics alone to support the machine. Never do any repairs or adjustments under the machine unless it is safely blocked.

Check each of the following, carefully, prior to engaging machine:

1. Ensure that the drive chains are well greased in the chain housing on the right side of the implement **(see fig. 11)**. Drive chains are supplied with an automatic chain tensioner.
2. Grease all cultipackers supports **(see fig. 11)**.
3. The hopper and seed cups to ensure they are mounted correctly.
4. No wrappings or foreign objects are on the machine.
5. All hardware for tightness, especially the bolts holding the 3 point hitch[2].
6. All safety shields and guards are in their place and tightly attached.
7. No people or animals are in the work area.
8. When working, make sure that the rear cultipacker locking pin has been removed.
9. When working, make sure the Command Seeder has its full weight riding on the cultipackers **(see fig. 4)**.

3.03 - Attaching to the Tractor

Unit may be used on tractors ranging from 25 to 70 HP with a category 1 three point hitch[3].

DANGER: Never attempt to attach the Command Seeder to the tractor or make any adjustments to it without first turning the tractor off.

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[2] See Table 4, page 22.
[3] See Table 5, page 22.

DANGER: Failure to ensure a secure coupling of the implement to the tractor can cause injury and damage to the implement or tractor. If necessary, wheel weights, front tractor weights and/or tire ballast should be used to improve stability. Be sure that the tractor tire pressure is correct. It is important to strictly follow the safety guidelines and instructions laid out in the tractor operator's manual.

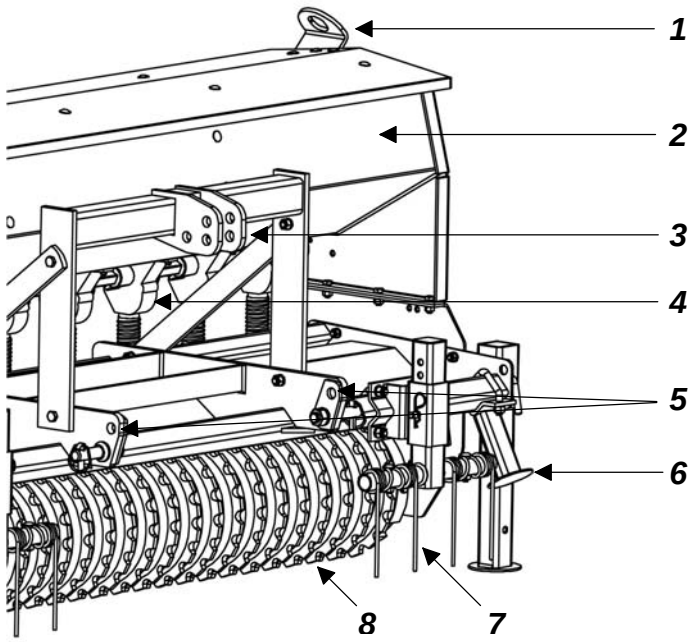


Fig. 3
1. lift hook
2. hopper
3. top hitch
4. seed cups
5. lower hitch
6. safety stand
7. track removers
8. front cultipacker

To attach the implement to the tractor do the following:
Back the tractor up to the Command Seeder in order to slip the tractor hitch arms over the hitch pins bolted to the frame. **Turn off the tractor engine.**

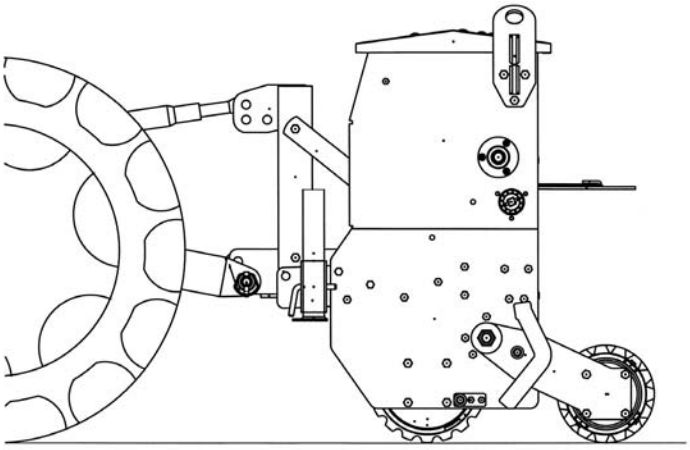
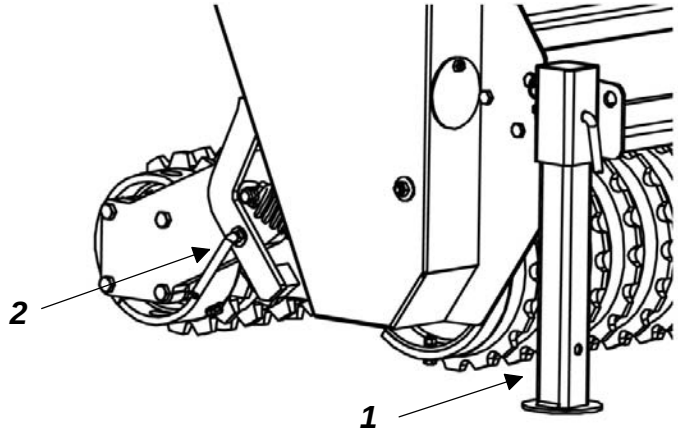


Fig. 4
Machine parallel to the ground.

The lower hitch pins **(see fig. 3)** may be put in either of 2 positions (upper or lower) depending on the tractor. Secure the two arms with the lynch pins. Tighten the tractor arms side movement with either the sway chains or blocks to limit side swing to 2"-3". Connect the top link, locking it in place with the top hitch pin. Adjust it so the Command Seeder is as near parallel to the ground as possible. A 1° to 2° rearward tilt is acceptable **(see fig. 4)**.

After use, the machine should be lowered and allowed to rest on the stand, and the rear cultipacker should be blocked by inserting the two locking pins secured with hairpin cotters **(see fig. 5)**.

Fig. 5
1. stand
2. locking pin



3.04 - General Instructions for Use

After you have read the Operator's Manual, have gone through the Pre-Operational Checklist and have correctly connected the Command Seeder to the three-point hitch of the tractor, simply fill the hopper with seed, adjust the required calibration and distribution and you are ready to begin work.

Seed distribution is achieved from the forward motion of the tractor. As the front cultipacker of the Command Seeder moves forward, the movement of the front cultipacker is transmitted by chains through a series of gears, to the seed cups which control the release of seed from the hopper. This allows for the seed to be sown constantly and in proportion to the distance covered by the tractor without being affected by its speed.

If the area to be seeded has already been tilled, then the front cultipacker will level the soil to provide a better seed bed. If, on the other hand, the land has not been prepared in any way, the cultipacker will break up the crust, splitting the largest clods, burying the smaller stones and basically preparing a no-till seed bed.
The seed is distributed with precision and in a predetermined manner in the area between the two rotors. The rear cultipacker then incorporates the seed into the soil to improve germination.
Avoid seeding when it is raining or when the soil is too wet.

Before beginning seeding, make sure that the rear cultipacker locking pins have been removed **(see fig. 5)**. Also remove any obstacles present on the ground, particularly large stones.

Slowly lower the three point hitch and the seeder to the ground. Proceed slowly until you have become familiar with the machine. For better results, select a tractor speed between 3 to 5 mph. As you approach the end of a seeding lane, stop the tractor and raise the Command Seeder from the ground. With the machine raised, turn the tractor and align it ready for the next passage. With experience, your ability to seed correctly will improve.

3.05 - Hopper Adjustment

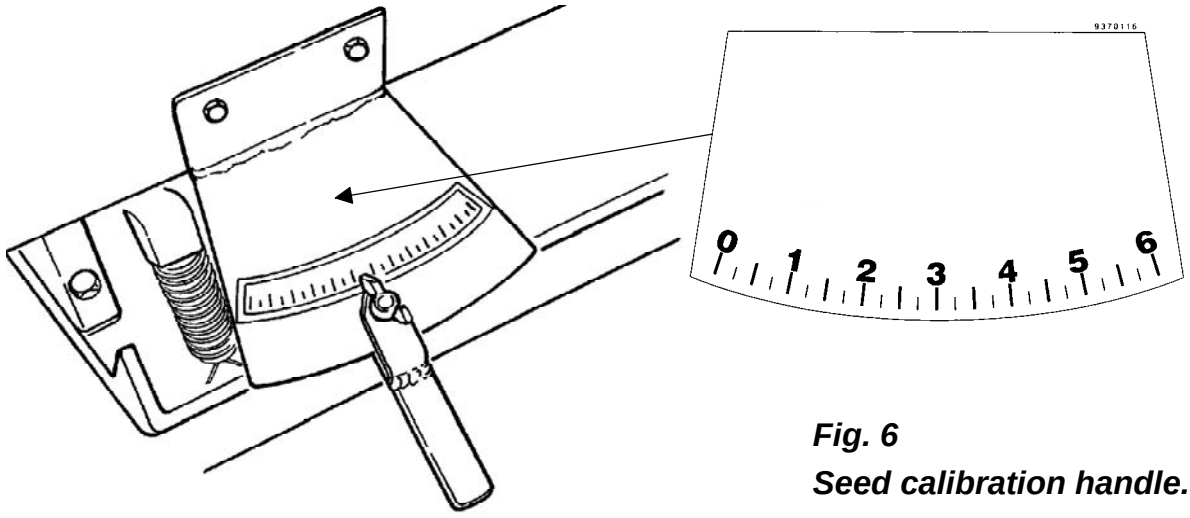


Fig. 6
Seed calibration handle.

The Command Seeder hopper holds 6.7 cu. ft. The hopper runs the entire width of the machine and has a continuously rotating ground driven agitator to breakup clods and ensure free flow through the distribution system. On the bottom of the hopper there are 10 rectangular slots to allow material passage. The **seed cups** mounted under the hopper, which are made entirely of non-corrosive material (nylon and fiberglass), contain an internal gear that rotates inside a housing. A **calibration handle** located on the rear left hand side of the hopper regulates how far to insert the gear inside the housing. The position of the handle, which has a scale from 0 to 6, determines the amount of seed distributed **(see fig. 6)**. The seed cups are a force feed system driven by the cultipacker.

The material is held inside the groove of the gear until the groove rotates to the opening at the bottom of the hopper. This rotation is driven by the cultipacker as it moves along the ground. When the handle is in position "0" the gear is completely outside the seed cup and no seed is distributed. With the handle in position "6" the gear is totally inside the cup and distributes at its maximum potential **(see fig. 6)**.

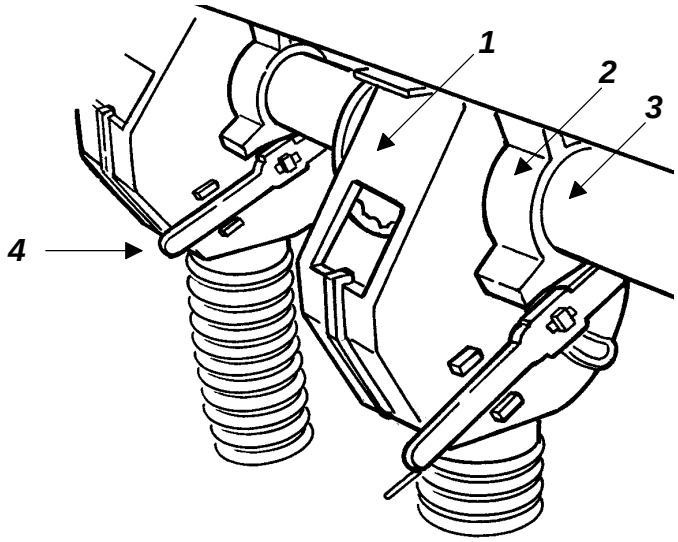


Fig. 7
1. seed cup
2. gear support
3. drive shaft bushing
4. seed cup regulation lever

A secondary regulation is the lever located on the side of each cup housing. This controls the position of the gate inside the seed cup (top, middle, bottom and clean out). The positioning of this lever is determined by the size and shape of the material being dispersed **(see fig. 7)**. The top position is for the smaller seeds, while the middle and bottom positions are for larger seeds. The clean out position should only be used to flush any remaining seed out of the seed hopper. The seed distribution table values are based on the lever being set in the top position. Typically, most seeds used with this seeder will require you to use the top lever position on the seed cups. If using a larger seed the seed cups are not discharging properly, try using the middle or bottom lever handle positions. Attached to the bottom of each cup is flexible tubing that the material flows through. As the material exits, it hits a split ring which divides the flow until it hits a splash pan and uniformly spreads over the entire working width of the Command Seeder.
The hopper is ground driven by the cultipacker which comes with two separate chains with automatic chain tensioners.
Although in essence a seeder, the Command Seeder has all the technology to ensure a precise calibrated flow. Being ground driven, the disbursement of the material in the hopper is totally independent from the ground speed. This is regulated solely by the regulation levers of the seed cups and hopper.

3.06 - Seed Hopper Calibration

There are two adjustments to be made to calibrate the hopper:
1. The amount of gear inside the seed cup housing.
2. The position of the regulation lever of each individual seed cup.

This system allows use of a wide variety of seeds.

The output of seed differs greatly depending on their size, density, dampness, and shape. Other output factors depend on the conditions in which the machine is operating such as, in slick conditions where the cultipacker may slip.

Table 1 lists the distribution rate in pounds per acre for various seeds that may be used. Keep in mind that the hopper and seed cup openings measure in volume and not in weight. Due to the many variables, the distribution rate, when using **Table 1**, may not be always accurate. Only a test run will help determine if the desired amount of seed is being spread.

TABLE 1 - AMOUNT OF SEED DISTRIBUTED IN LB/ACRE

Seed type	Calibration handle position											
	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
Bentgrass	34	71	89	124	156	182	202	230	251	268	290	306
Kentucky bluegrass	18	43	61	81	105	122	138	161	178	194	212	223
Annual ryegrass	19	54	79	105	140	166	193	228	254	279	315	341
Perennial ryegrass	27	64	92	120	158	187	214	252	281	309	346	375
Fescue fine blade turf type	16	43	62	83	109	128	149	177	196	215	241	261
Fescue K-31	4	30	52	71	95	114	134	158	176	194	206	210
White clover	54	123	176	228	297	350	401	471	523	575	644	697
Red clover	51	110	151	194	250	291	334	389	432	474	530	572
Buffalo grass	0	25	43	63	90	109	131	155	176	194	217	224
Bermuda (hulled)	38	87	118	150	193	224	257	300	330	363	406	438
Western wheat grass	7	24	36	48	64	76	89	105	117	130	145	158
Crested wheat grass	14	28	39	48	63	73	84	98	108	119	132	142
Weeping love grass	68	122	163	200	250	286	325	375	410	448	498	536
Sand love grass	54	103	139	186	223	259	294	343	380	416	464	500
Alfalfa	43	110	161	213	280	330	382	450	500	551	617	669
Vetch	44	96	140	174	225	265	302	353	393	432	484	523

Use **Table 2 and 3** to determine if the rate you are getting is correct.

There are two ways of setting the calibration:
1. With the machine stopped and raised, or;
2. With the machine attached to the tractor and working.

TABLE 2 - WORKING SURFACE

Command Seeder 74"
1 front cultipacker revolution = 17.44 sq. ft.
2498 front cultipacker revolutions = 1 acre
57 front cultipacker revolutions = 1000 sq. ft.

To set the calibration with the machine stopped, do the following:
1. Support the machine securely, but in a way to allow the cultipacker to turn freely.
2. Fill the hopper with the seed you intend to spread.

3. Make sure the seed cups are not plugged with leaves, grass or other obstacles and that the seed cup regulation levers are all adjusted to the same opening position.
4. Remove the seed tubes from the lower bar and attach bags to the ends to allow the material to be collected.
5. Move the calibration handle located in the rear of the hopper to a position between 0.5 and 6 **(see fig. 6)**.
6. Turn the front cultipacker by hand in complete turns for a minimum of 20 turns. The greater the number of turns the more accurate the measurement will be.
7. Gather up and weigh all the material distributed in the bags. Divide this by the number of turns the cultipacker made. This will give the amount of material dispersed per turn of the cultipacker.
8. Each cultipacker revolution, on the Command Seeder, corresponds to a surface area of 17.44 square feet, therefore 57 revolutions equal to 1,000 square feet and 2,498 cultipacker revolutions equal to 1 acre. To obtain the amount of seed spread per acre, multiply the quantity obtained with each revolution by 2,498 **(see Table 2)**.
9. If the results do not correspond to the desired amount which needs to be distributed, adjust the calibration handle accordingly.

TABLE 3 - AMOUNT OF MATERIAL DISTRIBUTED IN LB/ACRE

Lb. collected all seed cups	Distance traveled in feet									
	100	200	300	400	500	600	700	800	900	1,000
0.1	9.2	4.6	3.1	2.3	1.9	1.5	1.2	1.1	0.9	0.8
0.5	45.7	22.8	15.3	11.4	9.2	7.6	6.5	5.7	5.0	4.5
1	91.6	45.8	30.4	22.8	18.3	15.3	13.0	11.4	10.1	9.2
1.5	137.4	68.7	45.8	34.4	27.5	22.8	19.6	17.1	15.2	13.7
2	183.1	91.5	61.1	45.8	36.6	30.5	26.2	22.9	20.4	18.3
2.5	229.0	114.4	76.3	57.3	45.8	38.2	32.7	28.6	25.5	22.9
3	274.7	137.3	91.5	68.7	55.0	45.8	39.3	34.3	30.5	27.5
3.5	320.5	160.3	106.8	80.1	64.1	53.4	45.8	40.0	35.6	32.1
4	366.3	183.2	122.1	91.6	73.3	61.1	52.4	45.8	40.7	36.6
4.5	412.0	206.1	137.3	103.0	82.4	68.7	58.9	51.5	45.8	41.2
5	457.9	228.9	152.6	114.5	91.5	76.3	65.4	57.2	50.9	45.8
5.5	503.7	251.8	167.9	125.9	100.7	83.9	71.9	62.9	55.9	50.4
6	549.4	274.7	183.2	137.4	109.9	91.5	78.5	68.7	61.1	55.0
6.5	595.2	297.6	198.4	148.8	119.0	99.2	85.0	74.4	66.2	59.6
7	641.0	320.5	213.7	160.2	128.2	106.8	91.6	80.1	71.2	64.1
7.5	686.8	343.4	228.9	171.7	137.4	114.4	98.1	85.9	76.3	68.7
8	732.6	366.3	244.2	183.1	146.5	122.1	104.7	91.6	81.4	73.2
8.5	778.3	389.2	259.4	194.6	155.7	129.7	111.2	97.3	86.5	77.8
9	824.1	412.1	274.7	206.0	164.8	137.4	117.7	103.1	91.6	82.4
9.5	869.9	435.0	290.0	217.4	174.0	145.0	124.2	108.8	96.6	87.0
10	915.7	457.9	305.2	228.9	183.2	152.6	130.8	114.5	101.7	91.5

To calibrate the Command Seeder while it is working, do the following:

1. Measure out a predetermined distance on the ground (for example 200 linear feet), keeping in mind that the further the distance, the more precise the measurement.
2. Fill the hopper with the seed you intend to spread.
3. Make sure the seed cups are not plugged with leaves, grass or other obstacles and that the seed cup regulation levers are all adjusted to the same opening position.

4. Remove the seed tubes from the lower bar and attach bags to the ends to allow the material to be collected.
5. Move the calibration handle located in the rear of the hopper to a position between 0.5 and 6.
6. Drive the tractor forward pulling the machine along the predetermined distance. It is important for the cultipacker to remain on the ground at all times and to roll continuously.
7. Collect all material distributed and weigh.
8. Using **Table 3** determine the amount of material distributed. **Example: If the distance traveled is 100 ft. and 0.1 lb. of material is collected, then 9.2 lb. per acre of material is being distributed.**
9. If the results do not correspond to the amount that needs to be distributed, adjust the calibration handle accordingly.

3.07 - Start Up

DANGER: Never allow anyone around the Command Seeder when it is in operation.

CAUTION: Before starting work, clear the area of any obstacles or foreign objects and make sure that the rear cultipacker locking pins have been removed (see fig. 5).

Start out with the tractor in the lowest gear, increase gears slowly if necessary.
Avoid working in reverse.

Before beginning work always remember that the operator is responsible for:
1. Safe and correct operation of the tractor and Command Seeder.
2. Learning and following precise, safe operating procedures for both the tractor and the Command Seeder.
3. Ensuring all maintenance and lubrication has been performed on the Command Seeder.
4. Having read and understood all safety aspects for the Command Seeder in the operator's manual.
5. Having read and understood all safety decals on the Command Seeder.
6. Checking that there are no wires, weeds, grass or other objects wrapped around the cultipackers.
7. Checking to see if front weights need to be added to the tractor in order to maintain balance.
8. Checking the tractor tires for the proper pressure in accordance to the tractor operator's manual.

9. Checking that all shielding is on the machine and securely in place.
10. Making sure the proper attire is worn. Avoiding loose fitting clothing which can become entangled. Wearing sturdy, tough-soled work shoes and protective equipment for eyes, hands, ears and head. Never operate tractor or implement barefoot, or wearing sandals or sneakers.
11. Checking area for stones, branches and other debris that might be thrown.
12. Ensuring proper lighting is available, sunlight or good artificial lighting.

DANGER: Never use the machine without first assuring all protective devices are properly installed.

3.08 - Seed Conveyor Kit

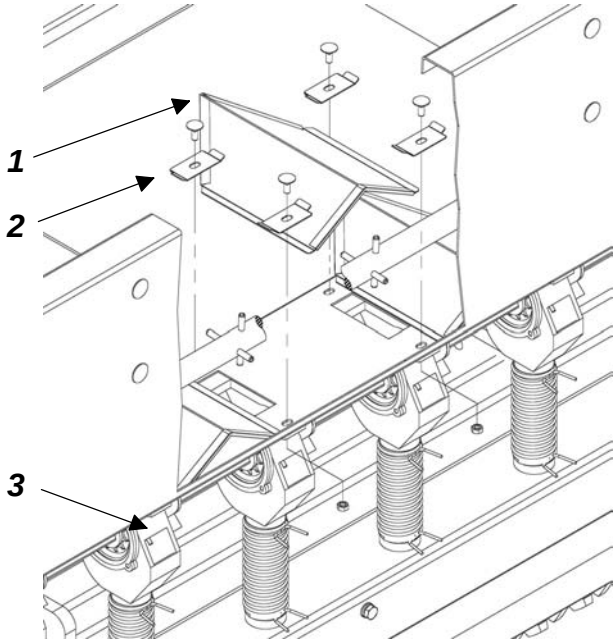


Fig. 8
1. seed conveyor
2. fixing plate
3. seed cup

The seed conveyor kit for the hopper is designed to help feed all the seed to the seed distribution cups and reduce the amount of residue left over in the seed box. This is particularly useful with seed that is distributed in very low volumes since often times the seed box is not filled completely. When filling the seed box equipped with the seed conveyor kit, pay particular attention to filling the seed evenly across the whole hopper. Hoppers filled incorrectly could cause seed to be distributed unevenly.

The seed conveyors **(see #1, fig. 8)** are secured to the seed box using the fixing plates **(see #2, fig. 8)**. No additional hardware is required as the fixing plates are fastened to the same holes on the hopper used to secure the seed cups **(see #3, fig. 8)**.

3.09 - Test Run

After the first 200-300 feet it is important to stop and raise the machine. Lower the machine, turn off the tractor engine and remove the key.
At this point make sure the Command Seeder is performing correctly. Check for loose bolts or nuts.

3.10 - Working Speed

Ground speed is determined by the soil condition and tractor power. Simple experimentation will soon determine the best speed for the desired results, usually 3 to 5 mph.

3.11 - Headland Procedure

When the headland is reached, it is important that the following be observed:
1. Raise the machine from the ground.
2. Turn the tractor facing the new desired direction of travel.
3. Begin working again.

NOTE: Best practice dictates that the machine be lifted no more than just enough to clear the ground.

3.12 - Uneven Terrain

DANGER: Be careful when operating tractor and machine over uneven ground to avoid rollover.

The following precautions should always be observed when working on uneven terrain:
1. In extremely uneven terrain rear wheel weights, front tractor weights, and/or tire ballast should be used to improve stability.
2. Observe the type of terrain and develop a safe working pattern.
3. Operate the implement up and down steep slopes, not across slopes, to prevent the tractor from tipping. Avoid sudden stops and starts, and slow down before changing directions on a slope.
4. Pass diagonally through sharp dips and avoid sharp drops to prevent hanging up the tractor and implement.
5. Slow down on sharp turns and slopes to prevent tipping or loss of control.
6. Watch for holes, roots or other hidden objects. Do not use near the edge of a gully, ditch or stream bank.

3.13 - Transporting

CAUTION: All operations of transport are to be done without the Command Seeder working and respecting all local traffic rules and regulations.

During transport or when the machine is lifted from the ground, it is advisable to adjust the tractor lift arms in order to be able to raise the machine 14" to 16" from the ground **(see fig. 9)**.

Before transporting:

1. Always select a safe ground speed that is appropriate for the terrain.
2. Beware of traffic on public roads. Install a SMV (Slow Moving Vehicle) sign when traveling on roads or streets. Comply with all federal, state and local laws.
3. Reduce ground speed when turning and take care that the implement does not strike obstacles such as trees, fences or buildings.
4. Raise the implement in the transport position. The implement should not be lifted over 14" to 16" from the ground.

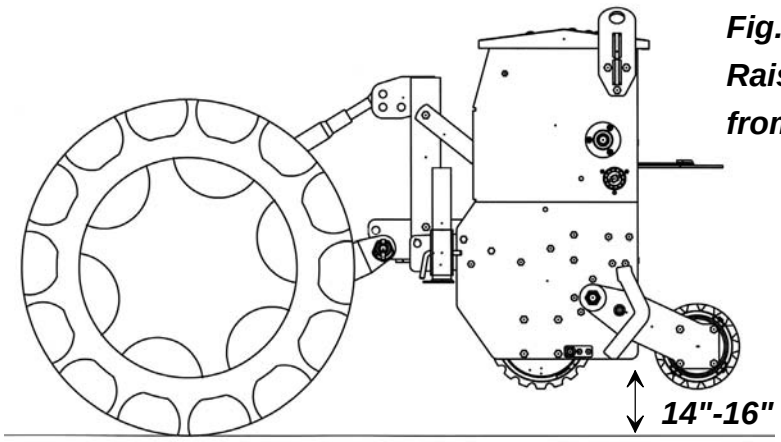


Fig. 9
Raise the machine 14" to 16" from the ground during transport.

TABLE 4 - BOLT AND NUT TORQUE SPECIFICATIONS

Metric (ISO) treaded bolts head marking		 **Class 5.8**		 **Class 8.8**		 **Class 10.9**		**Inch (SAE) treaded bolts head marking**		 **Grade 2**		 **Grade 5**		 **Grade 8**	
Bolt size mm	**Thread mm**	**N.m**	**ft-lb**	**N.m**	**ft-lb**	**N.m**	**ft-lb**	**Bolt size inch**	**Thread inch tpi**	**N.m**	**ft-lb**	**N.m**	**ft-lb**	**N.m**	**ft-lb**
M5	**0.8**	4	3	6	4	9	7	**1/4"**	**20**	7	5	11	8	16	12
M6	**1**	6	4	10	7	15	11	**1/4"**	**28**	8	6	13	10	19	14
M8	**1.25**	16	12	25	18	36	27	**5/16"**	**18**	15	11	24	17	33	25
M8	**1**	17	13	26	19	38	28	**5/16"**	**24**	17	13	26	19	37	27
M10	**1.5**	31	23	48	35	71	52	**3/8"**	**16**	27	20	42	31	59	44
M10	**1.25**	33	24	51	38	75	55	**3/8"**	**24**	31	23	47	35	67	49
M10	**1**	35	26	53	39	78	58	**7/16"**	**14**	43	32	67	49	95	70
M12	**1.75**	54	40	84	62	123	91	**7/16"**	**20**	48	36	75	55	106	78
M12	**1.5**	56	41	87	64	128	94	**1/2"**	**13**	66	48	102	75	144	106
M12	**1.25**	59	44	90	66	133	98	**1/2"**	**20**	75	55	115	85	163	120
M14	**2**	84	62	133	98	195	144	**9/16"**	**12**	95	70	147	109	208	154
M14	**1.5**	94	69	142	105	209	154	**9/16"**	**18**	106	79	164	121	232	171
M16	**2**	131	97	206	152	302	223	**5/8"**	**11**	132	97	203	150	287	212
M16	**1.5**	141	104	218	161	320	236	**5/8"**	**18**	149	110	230	170	325	240
M18	**2.5**	181	133	295	218	421	310	**3/4"**	**10**	233	172	361	266	509	376
M18	**2**	196	145	311	229	443	327	**3/4"**	**16**	261	192	403	297	569	420
M18	**1.5**	203	150	327	241	465	343	**7/8"**	**9**	226	167	582	430	822	606
M20	**2.5**	256	189	415	306	592	437	**7/8"**	**14**	249	184	642	473	906	668
M20	**1.5**	288	212	454	335	646	476	**1"**	**8**	339	250	873	644	1,232	909
M22	**2.5**	344	254	567	418	807	595	**1"**	**12**	371	273	955	704	1,348	995
M22	**1.5**	381	281	613	452	873	644	**1-1/8"**	**7**	480	354	1,077	794	1,746	1,288
M24	**3**	444	327	714	526	1,017	750	**1-1/8"**	**12**	539	397	1,208	891	1,958	1,445
M24	**2**	488	360	769	567	1,095	808	**1-1/4"**	**7**	677	500	1,519	1,120	2,463	1,817
M27	**3**	656	484	1,050	774	1,496	1,103	**1-1/4"**	**12**	750	553	1,682	1,241	2,728	2,012
M27	**2**	719	530	1,119	825	1,594	1,176	**1-3/8"**	**6**	888	655	1,992	1,469	3,230	2,382
M30	**3.5**	906	668	1,420	1,047	2,033	1,499	**1-3/8"**	**12**	1,011	746	2,268	1,673	3,677	2,712
M30	**2**	1,000	738	1,600	1,180	2,250	1,659	**1-1/2"**	**6**	1,179	869	2,643	1,949	4,286	3,161
M36	**4**	1,534	1,131	2,482	1,830	3,535	2,607	**1-1/2"**	**12**	1,326	978	2,974	2,194	4,823	3,557
When using lock washers with nuts, increase torque values by 5%.															

TABLE 5 - COMMAND SEEDER - TECHNICAL FEATURES

Command Seeder for tractors with a category 1 three point hitch.							
Model	HP	Working width	Overall width	Weight lb.	Hopper capacity cu. ft.	# Seed cups	Chains
ASR74CSTRL	25-70	74"	80"	1,008	6.7	10	ASA 50

4 - MAINTENANCE

DANGER: Stop engine, lock parking brake and remove key before performing any service or maintenance.
Never rely on the tractor lift system. Install blocks or stands under the implement deck to prevent it from falling.
Always use personal protection devices, such as glasses or gloves when performing maintenance.
Keep fingers out of slots to prevent injury.

4.01 - Maintenance Safety

1. Good maintenance is your responsibility.
2. Keep service area clean and dry. Be sure electrical outlets and tools are properly grounded. Use adequate light for the job at hand.
3. Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.
4. Make no repair or adjustments with the tractor engine running. Before working on the machine, shut off the engine, set the brakes, and remove the ignition key.
5. Be certain all moving parts on attachment have come to a complete stop before attempting to perform maintenance.
6. Never work under equipment unless it is blocked securely.
7. Never trust the tractor hydraulics alone to support the machine. Before repairing or adjusting, the machine should be lowered and allowed to rest on the supplied stand.
8. Always use personal protection devices such as eye, hand and hearing protectors, when performing any service or maintenance.
9. Periodically tighten all bolts, nuts and screws and check that all cotter pins are properly installed to ensure unit is in a safe condition.
10. When completing a maintenance or service function, make sure all safety shields and devices are installed before placing unit in service.
11. After servicing, be sure all tools, parts and service equipment are removed.
12. Never replace hex bolts with less than grade five bolts unless otherwise specified, i.e. shear bolts[4].
13. Where replacement parts are necessary for periodic maintenance and servicing, genuine replacement parts must be used to restore your equipment to original specifications. The company will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.

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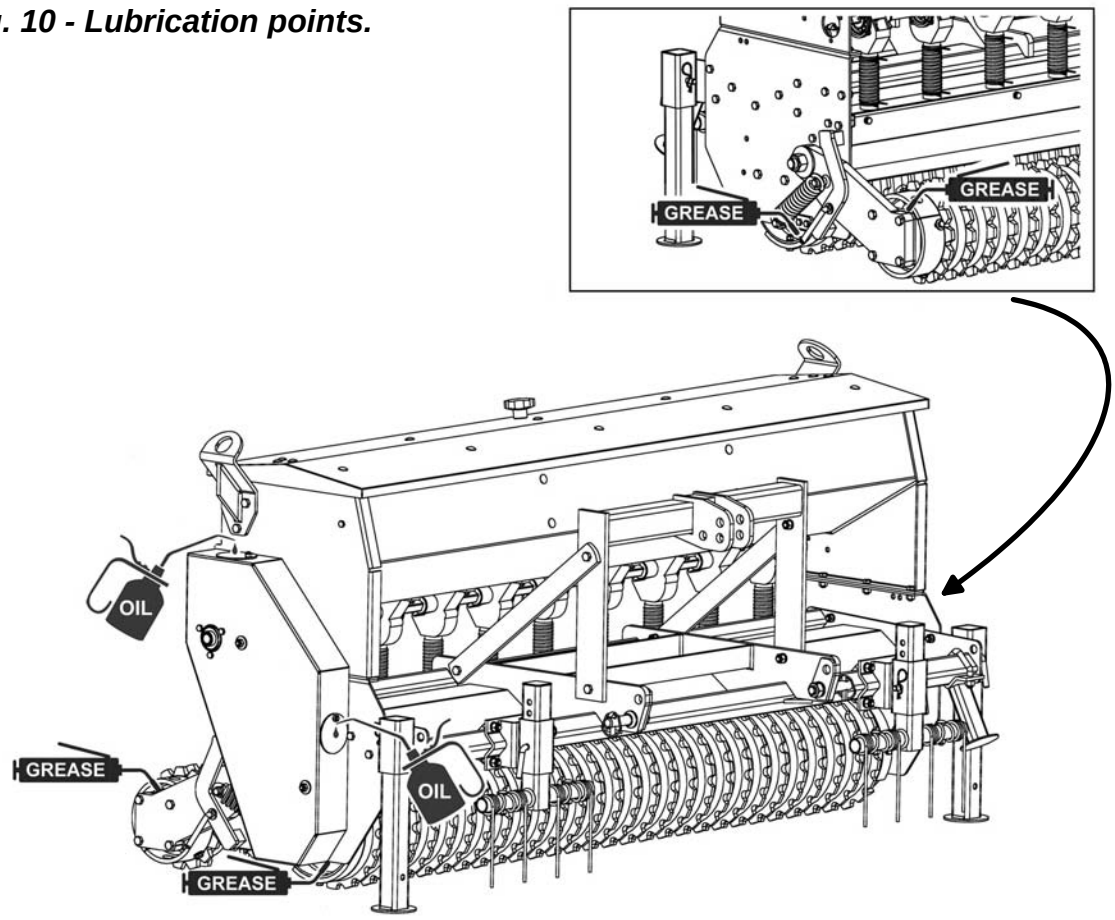
[4] Refer to Table 4 - Torque Specifications, page 22.

14. Unauthorized modifications to the machine may impair the function and/or safety of the machine and reduce its life. If equipment has been altered in any way from the original design, the manufacturer does not accept any liability for injury or warranty.

4.02 - Service

The following illustrations show lubrication points. The frequency of lubrication given is based on normal operating conditions. Severe or unusual conditions may require more frequent lubrication.
Use a good quality SAE multipurpose type grease for all locations shown. Be sure to clean fittings thoroughly before using grease gun. Immediately replace broken or missing fittings.

Fig. 10 - Lubrication points.



Seed hopper clean out:
The seed cups on the hopper are designed for easy clean out. To completely clean out the seed hopper, move the main seed calibration handle on the hopper in the fully open position **(see fig. 6)**, then move the seed cup regulation lever **(see fig. 7)** into the clean out position. Use a soft brush to guide any remaining seed in the hopper through the seed cups.

Whenever the hopper is used for fertilizer spreading it is extremely important to carefully clean out the hopper and wash the machine with hot water. Do not forget that fertilizer is highly corrosive and should be not left in the hopper any longer than necessary.

Hourly or whenever an obstacle is hit:
1. Check machine condition.
2. Remove any wrapping (stalks, weeds, trash, etc.) from cultipackers, especially from around bearing supports on the cultipacker ends.

Every 8 hours:
Grease the cultipacker supports (see fig. 10). Apply two or three shots of grease to the cultipacker bearings on both front and rear cultipackers.

Every 25 hours:
Check hardware tightness; vibration can loosen bolts[5]. Check tightness of the hardware periodically.

Every 50 hours:
Inspect all the drive chains from the access panels and make sure they are well lubricated **(see fig. 10)**.

[5] See Table 4, page 22.

5 - REPAIR PROCEDURES

CAUTION: It is not recommended that untrained individuals perform any repair work. The following operations are detailed for qualified personnel only.

5.01 - Chain Case and Chain Replacement

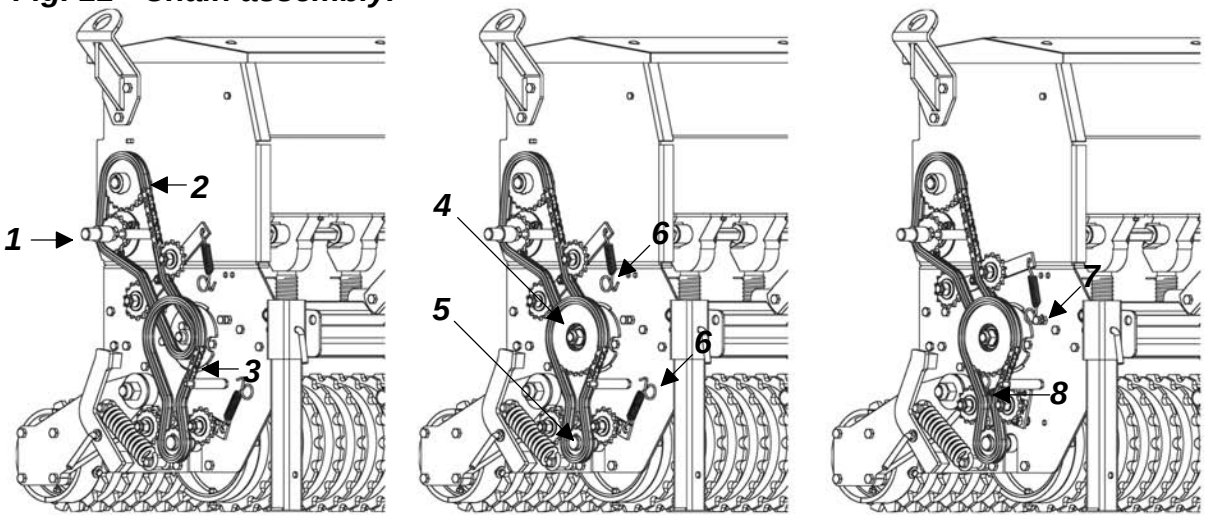
To remove the chain do the following:

1. Remove the two nuts that hold the chain case cover to the frame.
2. Loosen the two set screws that hold the flange bearing to the pinion auger shaft **(see #1, fig. 11)**.
3. Remove the chain case cover.
4. Release the automatic chain tensioner springs **(see #6, fig. 11)**.
5. Remove the nut that holds the central double sprocket **(see #4, fig. 11)**.
6. Loosen the set screws that hold the cultipacker sprocket **(see #5, fig. 11)**.
7. Reaching behind the right side panel, remove the bolt that holds the central double sprocket.
8. Remove both chains.

To replace the chains do the following:

1. Loosely place top chain ASA 50x66 **(see #2, fig. 11)** on top sprocket and lower chain ASA 50x50 **(see #3, fig. 11)** on cultipacker sprocket.
2. Reaching behind the right side panel, insert the bolt that holds the central double sprocket **(see #4, fig. 11)** and on the opposite side of the right side panel insert the bushing.
3. Place chains on central double sprocket ensuring top chain is placed on the Z15 side (inner side) and bottom chain on the Z30 side (outer side) of the sprocket.
4. Assemble the chain-sprocket assembly to the bolt and slide it in until it is flush to the bushing previously inserted.
5. Ensure proper sprocket alignment, then tighten set screws that hold the cultipacker sprocket **(see #5, fig. 11)**.
6. Tighten the nut that holds the central double sprocket.
7. Attach top chain tensioner spring to the bolt **(see #7, fig. 11)** and bottom chain tensioner spring to both chain tensioner supports **(see #8, fig. 11)** so that they are connected to each other.
8. Replace the chain case cover and tighten the two set screws that hold the flange bearing to the pinion auger shaft **(see #1, fig. 11)**.
9. Tighten the nuts that hold the chain case cover to the frame.

Fig. 11 - Chain assembly.



A. Loosely place both chains on top and bottom sprockets, insert bushing on bolt that holds the central double sprocket.

B. Place chains on central double sprocket and then assemble to the bolt, ensure sprockets are aligned then tighten roller sprocket set screws.

C. Attach the top chain tensioner spring to the bolt (#7) and the bottom spring to both chain tensioner supports (#8).

5.02 - Front Cultipacker Replacement

To remove the front cultipacker proceed as follows:

1. Securely support the implement.
2. Remove the side transmission[6].
3. Remove the four bolts on the right side panel and the four bolts on the left side panel that hold the front cultipacker supports.
4. Slide the cultipacker out.

5.03 - Suggested Spare Parts

It is suggested that the following spare parts be kept on hand at all times to prevent a minor problem from delaying work:

Description	Quantity
Front cultipacker rings	5
Rear cultipacker rings	5
Seed cups	3
Chains	1 set

[6] See Section 5.01 - Chain Case and Chain Replacement.

5.04 - Storage

After seasonal use it is important to perform the following for prolonged storage:

1. Lower the stand **(see fig. 5)** and remove the machine from the tractor.
2. Block the rear cultipacker by inserting the two locking pins secured with hairpin cotters.
3. Wash carefully, especially inside the hopper.
4. Inspect and replace worn or damaged parts.
5. Tighten all hardware[7].
6. Grease all areas indicated under maintenance.
7. Cover from the elements in order to have it in perfect condition for the start of the next season.

WARNING: Be sure to store the implement on a hard level surface and away from people especially children.

[7] See Table 4, page 22.

6 - TROUBLESHOOTING

WARNING: Be sure tractor engine is off, parking brake is locked, and key is removed before making any adjustments.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Uneven seed distribution.	Seed cups might be obstructed. Ground speed too fast. Cultipackers not clean.	Check for plugging in seed cup. Reduce ground speed. Check for trash or mud buildup on cultipackers.
Actual seeding rate is different than desired.	Seed cups might be obstructed.	Seed treatment will affect seeding rate if the chemicals build up in seed cup. Unless cleaned regularly, this buildup can cause breakage of the seed cup shaft.
Seed cup sprocket locked up or twisted seed cup drive shaft.	Seed cups might be obstructed.	Check for foreign matter lodged in seed cup sprocket.
Cultipackers not turning freely.	Cultipackers not clean.	Check for trash or mud buildup on cultipackers end.

1 YEAR LIMITED WARRANTY

FOR ABI® COMMAND SEEDER & ABI® COMMAND TILLER PRODUCTS

TERMS & CONDITIONS

"**ABI**" means **Absolute Innovations, Inc.** 1320 Third Street, Osceola, IN 46561 - 877.788.7253

The **ABI** Command Seeder & Command Tiller products are warrantied for one (1) year, from the original invoice date, against defects in materials and/or workmanship when put to normal and designed consumer/residential or commercial use. This warranty is only valid on new equipment to the original purchaser with proof of purchase. **These products are only warrantied for 30 days when used in a rental business or application.**

For the purpose of the warranties, "normal & designed use" refers to such uses shown in **ABI** marketing materials, websites & videos specific to each product and does not include misuse, accidents, or damage due to inadequate maintenance. However, final judgment of "normal & designed use" is the sole opinion of **ABI**.

The warranty holder is responsible for performing reasonable and proper maintenance. The warranty holder is further responsible for performing replacement of normally wearing parts. Attachments and options for these products are not covered by this warranty. **ABI** in no way warranties engines, pumps, tanks, tires, electric actuators, tubes or other trade accessories since these items are warrantied separately by their respective manufacturers.

ABI's obligation and or liability, under this warranty, of any product defect or claim for injury or damages is limited to repair or replacement of the product, or payment of the reasonable cost of repair or replacement of the product, at **ABI**'s sole discretion. During the warranty period, warranty replacement parts or replacement product will ship by a standard method at no charge to the warranty holder, in the United States & Canada only. Expedited shipping of warranty parts or replacement product is the responsibility of the warranty holder.

To secure warranty service the warranty holder must, (1) report the defect immediately to **ABI** customer service for warranty consideration within the applicable warranty term in writing and discontinue use of the product; (2) present photographic evidence of the warranty claim and valid proof of purchase; (3) return the product or part to **ABI** or independent service technician within 30 days of defect discovery or failure for return, inspection or repair, if required. If **ABI** is unable to repair the product to conform to the warranty after a reasonable number of attempts, **ABI** will provide, at its option, one of the following: (a) a replacement for the product or, (b) a full refund of the purchase price. Repair, replacement, or refunds are the warranty holder's EXCLUSIVE remedies against **ABI** under this limited warranty.

ABI IS NOT RESPONSIBLE FOR THE FOLLOWING: (1) Equipment purchased used; (2) Any equipment that has been altered or modified in ways not approved by **ABI**, including, but not limited to, unauthorized repair, and acts of God; (3) Depreciation or damage caused by normal wear, lack of reasonable and proper maintenance, failure to follow operating instructions/recommendations; misuse, lack of proper protection during storage or use, vandalism, the elements, collision or accident; (4) Normal maintenance/ wear parts and/or service, including but not limited to, tips, shanks, teeth, blades, scarifiers, top-links, finish rakes, cables, chains, sprockets, switches, pins, shafts, bolts, leveling blades, profile blades, tires, rims, bearings and wear plates. Periodic replacement of normally wearing parts is the responsibility of the warranty holder.

To the extent permitted by law, **the limited warranty stated above is the exclusive warranty given by ABI, without purchase of optional additional charge extended warranty, to the original purchaser, and ABI disclaims any other warranties. There are no other warranties, either express or implied, including any warranty of merchantability, fitness for a particular purpose, or arising from course of dealing or trade usage. ABI shall not be liable in any event for incidental or consequential or other special damages under any theory of strict liability or negligence, or expenses of any kind, including, but not limited to, personal injury, damage to property, cost of equipment rentals, loss of profit, or cost of hiring services to perform tasks normally performed by these products. ABI** reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold.

Some jurisdictions do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from jurisdiction to jurisdiction.

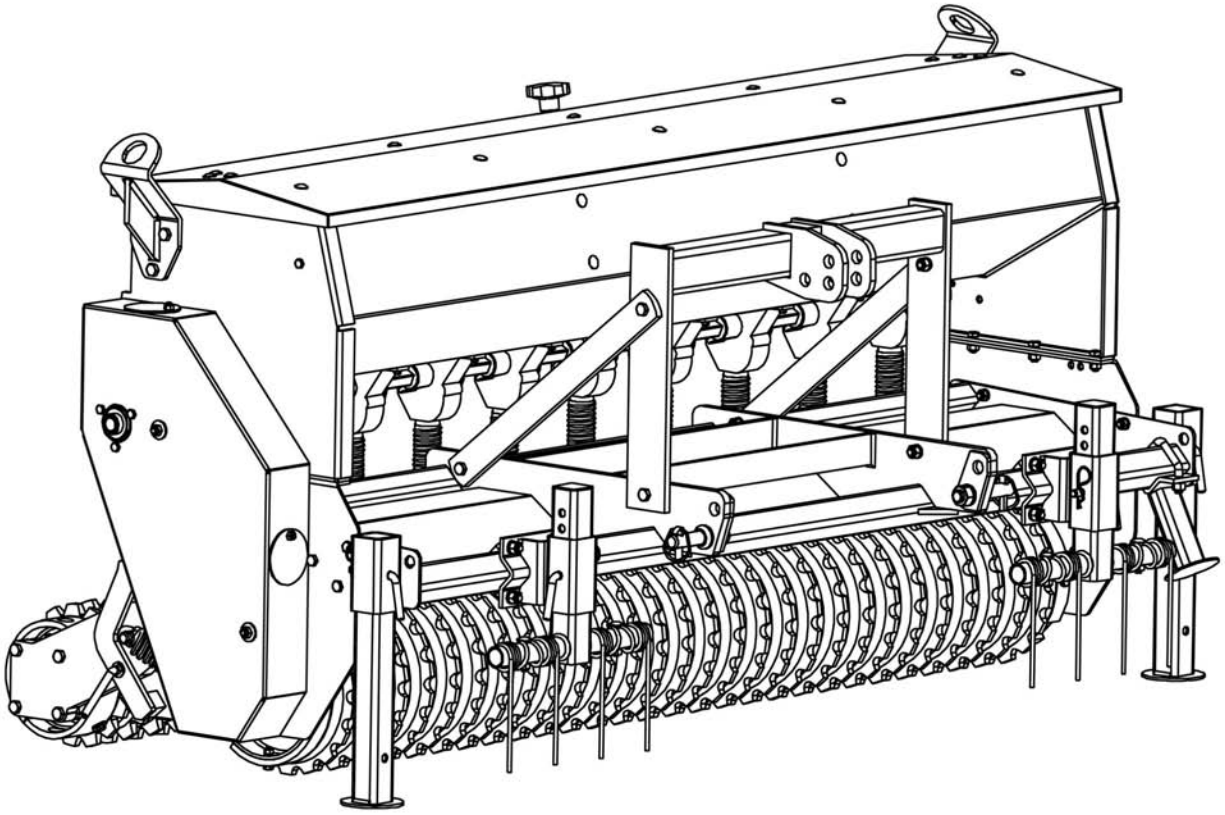
Parts Manual

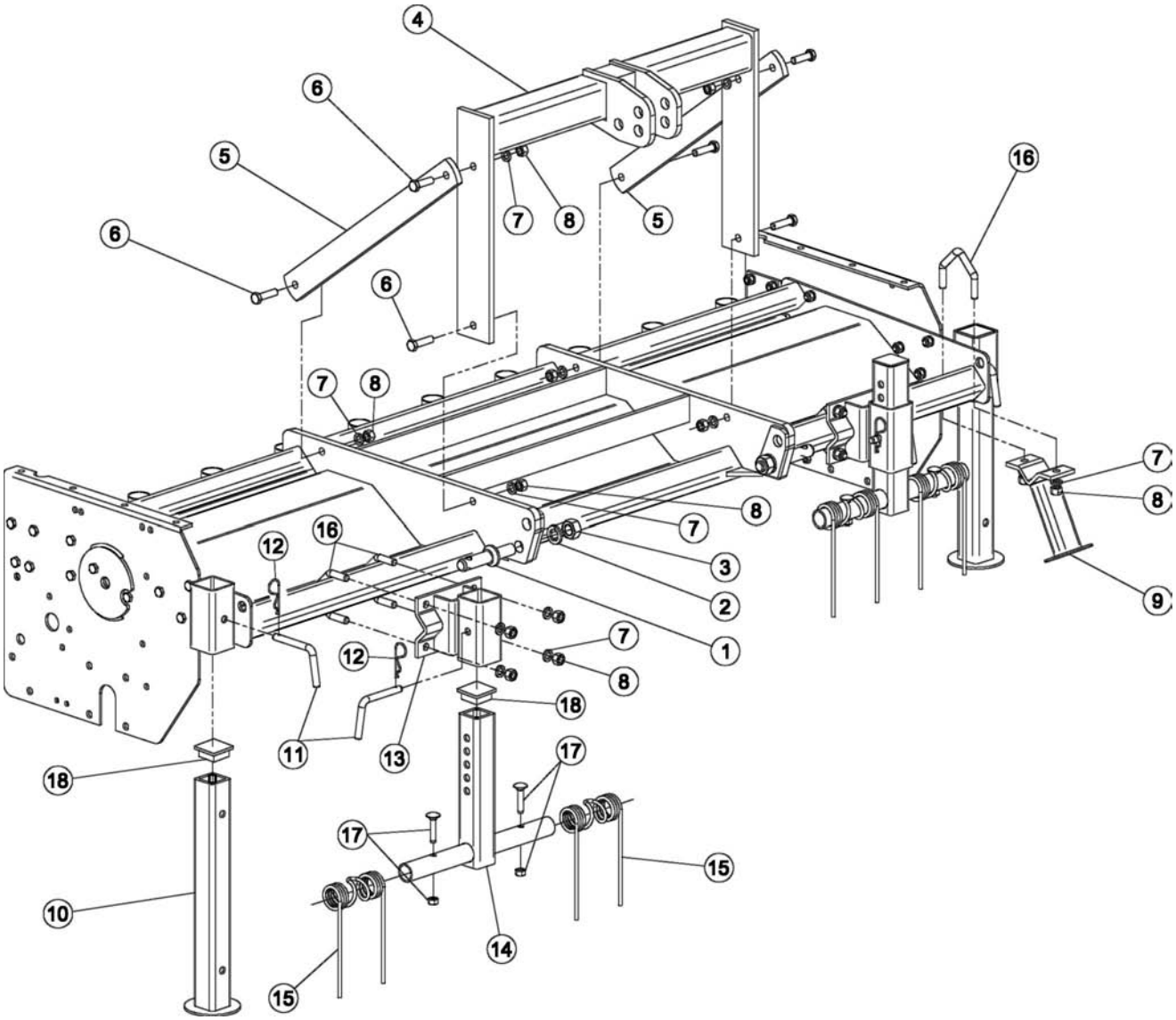
COMMAND SEEDER

Full-width primary seeder

ASR74CSTRL

(serial #328120 & above)

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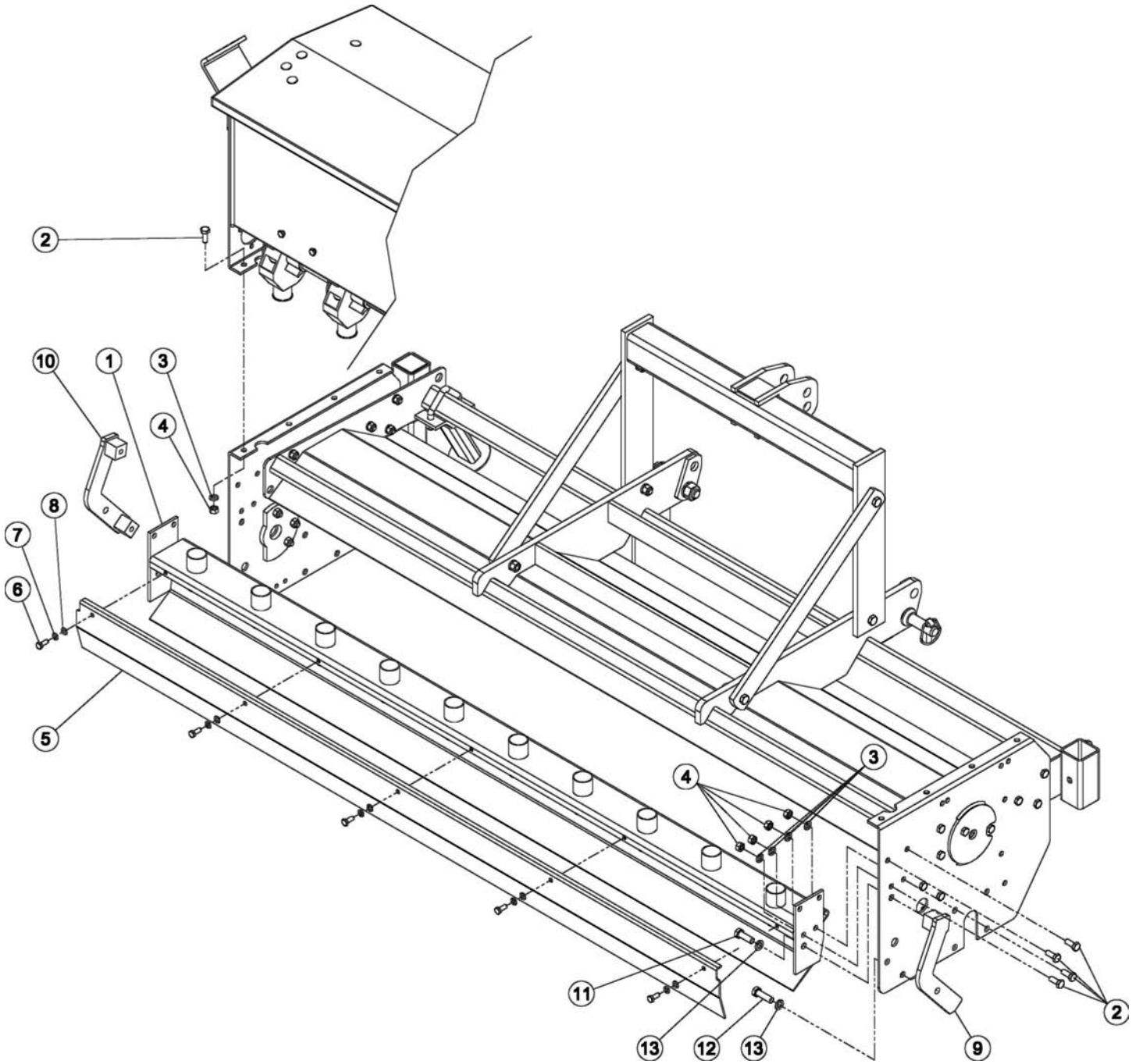
Ref.	Part #	Description	Qty.
1	000-5550	Hitch pin	2
2	000-5351	Washer lock Ø20 Z	2
3	000-5542	Nut HH M20-1.50 C6 MD Z	2
4	008-4772	Three point hitch	1
5	008-8560	Top hitch support	2
6	000-7716	Bolt HH M12-1.75x45 C8.8 Z F	6
7	000-1077	Washer lock Ø12 Z	16
8	000-3038	Nut HH M12-1.75 C6 TK Z	16
9	008-8720	Safety stand	1
10	008-8570	Stand	2
11	008-4619	Hitch pin	4
12	005-4422	Hairpin cotter Ø2.5 Z	4
13	008-8700	Hitch, front track remover (option)	2
14	008-8710	Front track remover (option)	2
15	004-6358	Spring, tickler tooth (option)	4
16	001-1251	Bolt "V" M12-1.75 Z	5
17	004-6362	Bolt CR M10-1.50x50 C4.6 Z	4
18	008-2760	Plastic cap 50 mm.	4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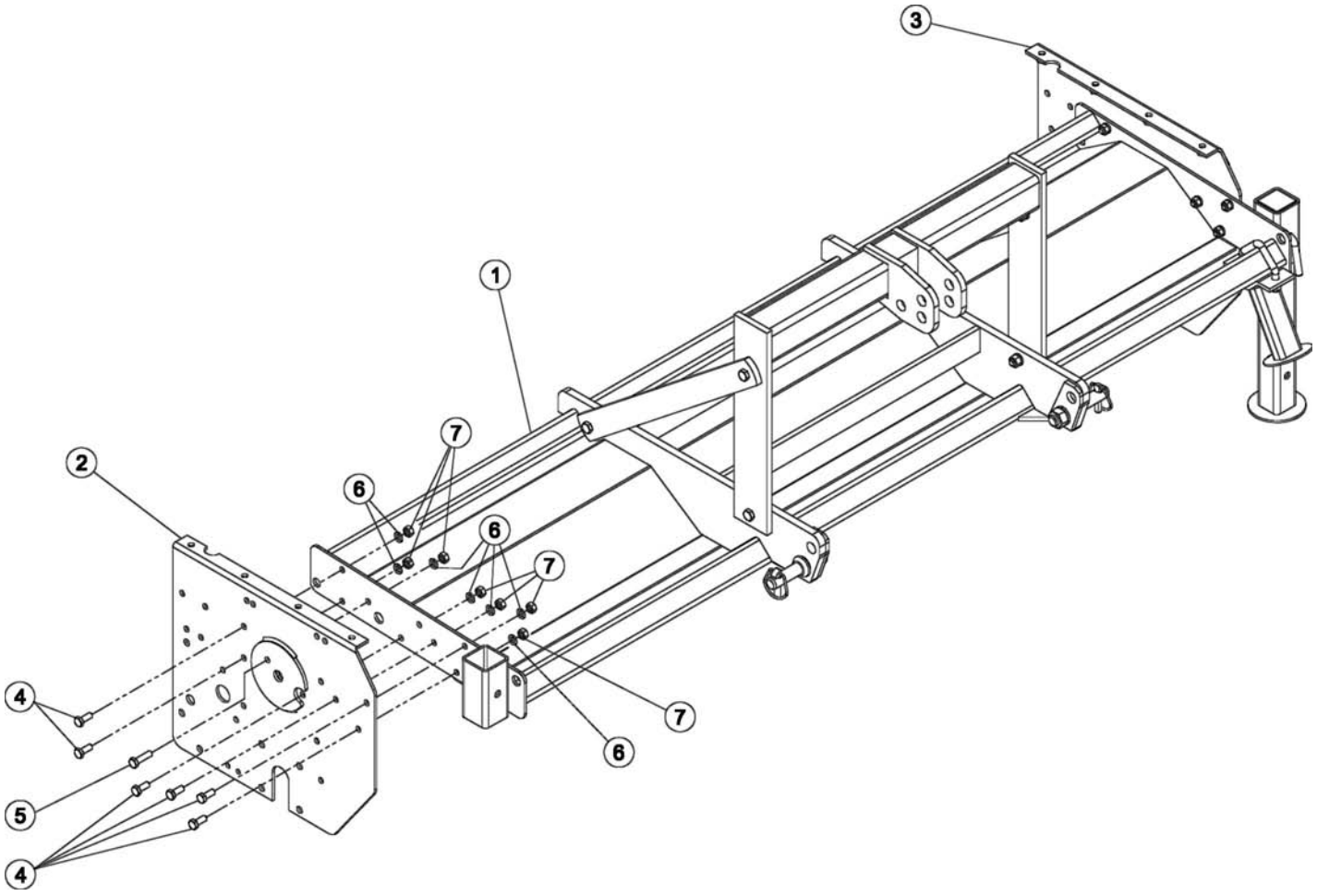
Ref.	Part #	Description	Qty.
1	048-8880	Discharge support 74"	1
2	003-3176	Bolt HH M10-1.50x25 C8.8 Z F	16
3	000-1280	Washer lock Ø10 Z	16
4	000-1279	Nut HH M10-1.50 C6 TK Z	16
5	048-8890	Wind guard	1
6	001-5012	Bolt HH M08-1.25x20 C8.8 Z F	5
7	000-3144	Washer lock Ø08 Z	5
8	001-5230	Washer flat Ø08 W	5
9	018-8633	Rear cultipacker lock bracket, right	1
10	028-8633	Rear cultipacker lock bracket, left	1
11	002-3265	Bolt HH M12-1.75x40 C8.8 Z F	2
12	000-7255	Bolt HH M12-1.75x35 C8.8 Z F	2
13	000-1077	Washer lock Ø12 Z	4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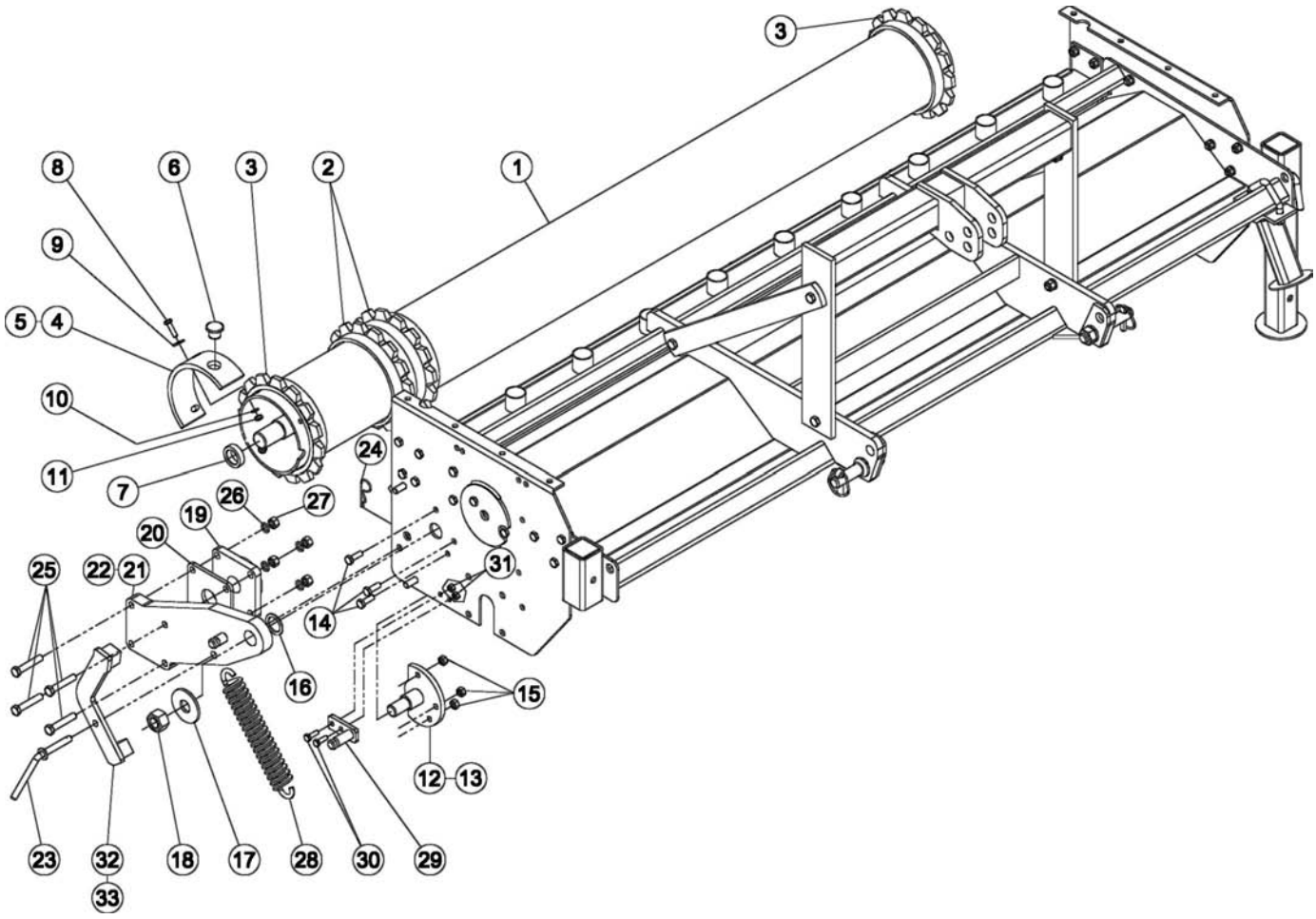
Ref.	Part #	Description	Qty.
1	048-8510	Frame 74"	1
2	008-8530	Right side panel	1
3	008-8540	Left side panel	1
4	003-3176	Bolt HH M10-1.50x25 C8.8 Z F	6
5	000-1278	Bolt HH M10-1.50x30 C8.8 Z F	1
6	000-1280	Washer lock Ø10 Z	7
7	000-1279	Nut HH M10-1.50 C6 TK Z	7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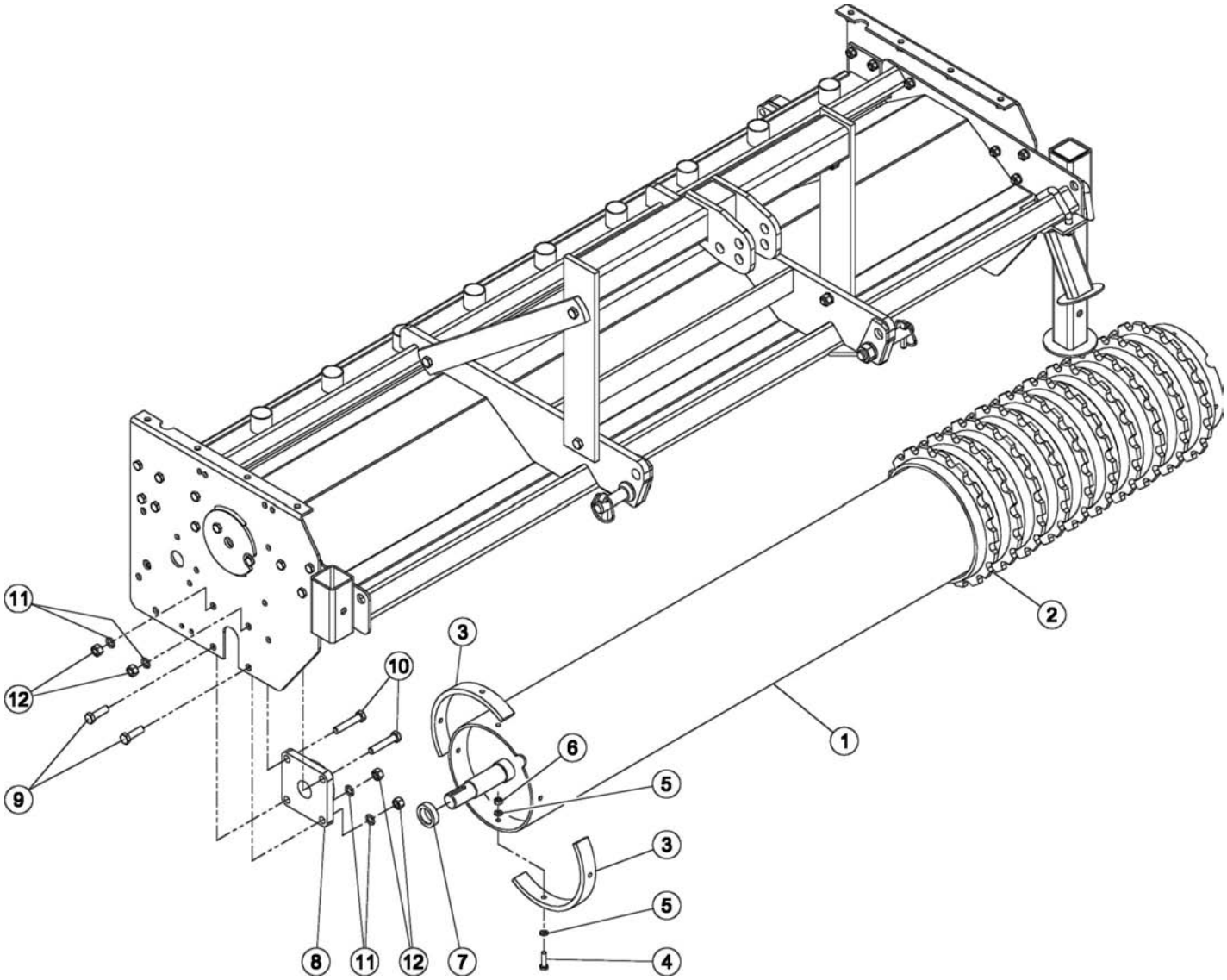
Ref.	Part #	Description	Qty.
1	048-8640	Rear cultipacker 74”	1
2	008-8645	Cultipacker ring, cast iron	27
3	008-8646	Cultipacker semi-ring, cast iron	2
4	008-8650	End ring with hole	2
5	008-8651	End ring without hole	2
6	008-8658	Plastic cap	2
7	008-8588	Spacer	2
8	004-6543	Bolt HH M08-1.25x30 C8.8 Z F	8
9	001-4514	Washer fender Ø08 Z	8
10	001-5230	Washer flat Ø08 W	8
11	001-1328	Nut PT M08-1.25 C6 TK Z	8
12	018-8605	Cultipacker support shaft, right	1
13	028-8605	Cultipacker support shaft, left	1
14	000-1278	Bolt HH M10-1.50x30 C8.8 Z F	6
15	001-4106	Nut ES M10-1.50 TK Z	6
16	004-4128	Shim Ø32x45x2	2
17	002-9536	Washer fender Ø24 Z	2
18	008-8616	Nut ES M24-3.00 C6 TK Z	2
19	004-6331	Support UCF 207 TF	2
20	008-8625	Spacer plate	2
21	018-8610	Cultipacker arm, right	1
22	028-8610	Cultipacker arm, left	1
23	011-8114	Locking pin	2
24	005-4422	Hairpin cotter Ø2.5 Z	2
25	003-4265	Bolt HH M12-1.75x65 C8.8 Z P	8
26	000-1077	Washer lock Ø12 Z	8
27	000-3038	Nut HH M12-1.75 C6 TK Z	8
28	008-8624	Spring, cultipacker arm	2
29	008-8620	Attachment plate, spring	2
30	009-1446	Bolt HH M08-1.25x25 C8.8 Z F	4
31	009-1384	Nut ES M08-1.25 TK Z	4
32	018-8633	Rear cultipacker lock bracket, right	1
33	028-8633	Rear cultipacker lock bracket, left	1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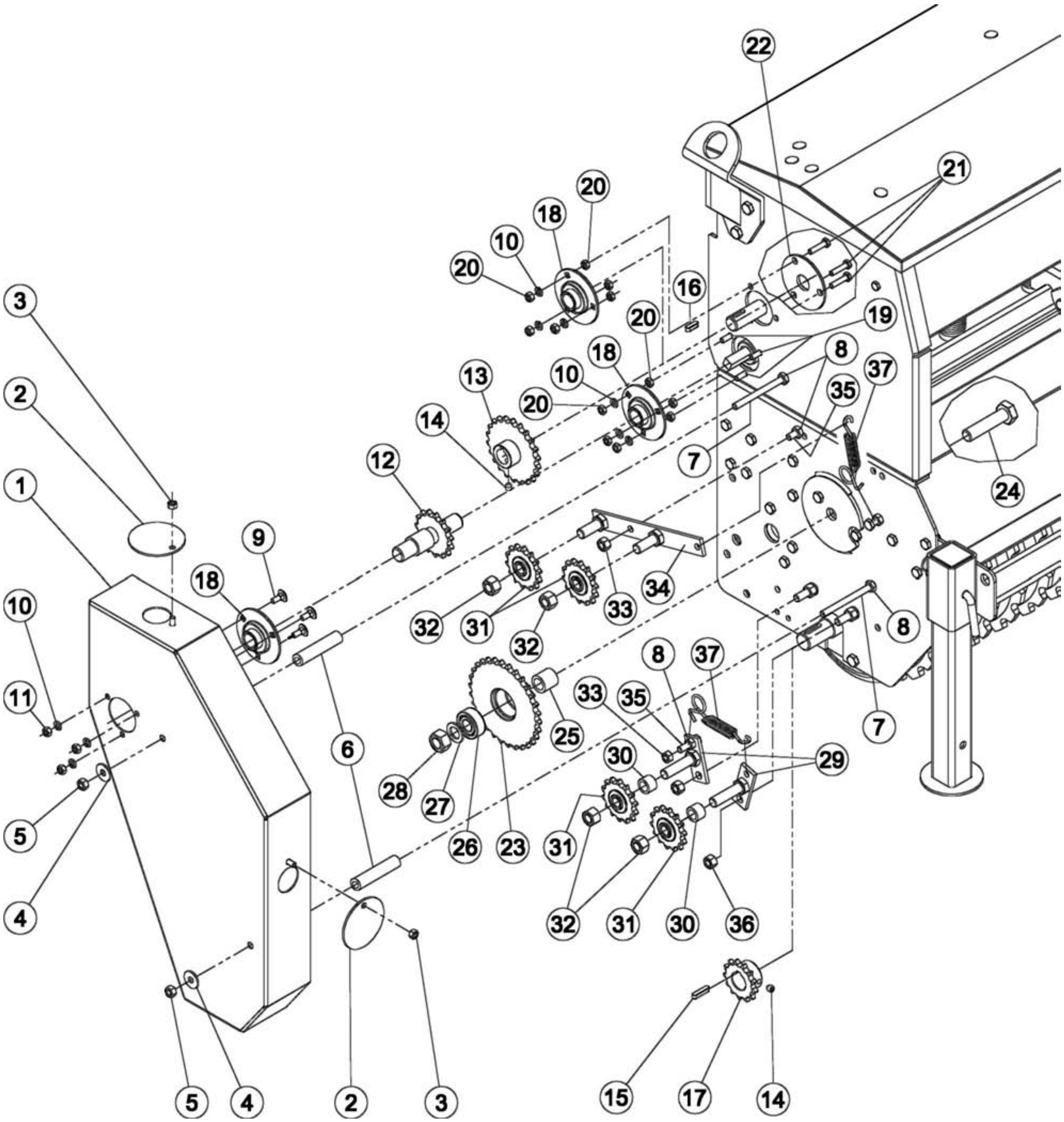
Ref.	Part #	Description	Qty.
1	048-8580	Front cultipacker 74”	1
2	008-8589	Cultipacker ring, cast iron	28
3	008-4481	End ring	4
4	004-6543	Bolt HH M08-1.25x30 C8.8 Z F	8
5	001-5230	Washer flat Ø08 W	16
6	001-1328	Nut PT M08-1.25 C6 TK Z	8
7	008-8588	Spacer	2
8	004-6331	Support UCF 207 TF	2
9	002-3265	Bolt HH M12-1.75x40 C8.8 Z F	6
10	002-1257	Bolt HH M12-1.75x60 C8.8 Z F	2
11	000-1077	Washer lock Ø12 Z	8
12	000-3038	Nut HH M12-1.75 C6 TK Z	8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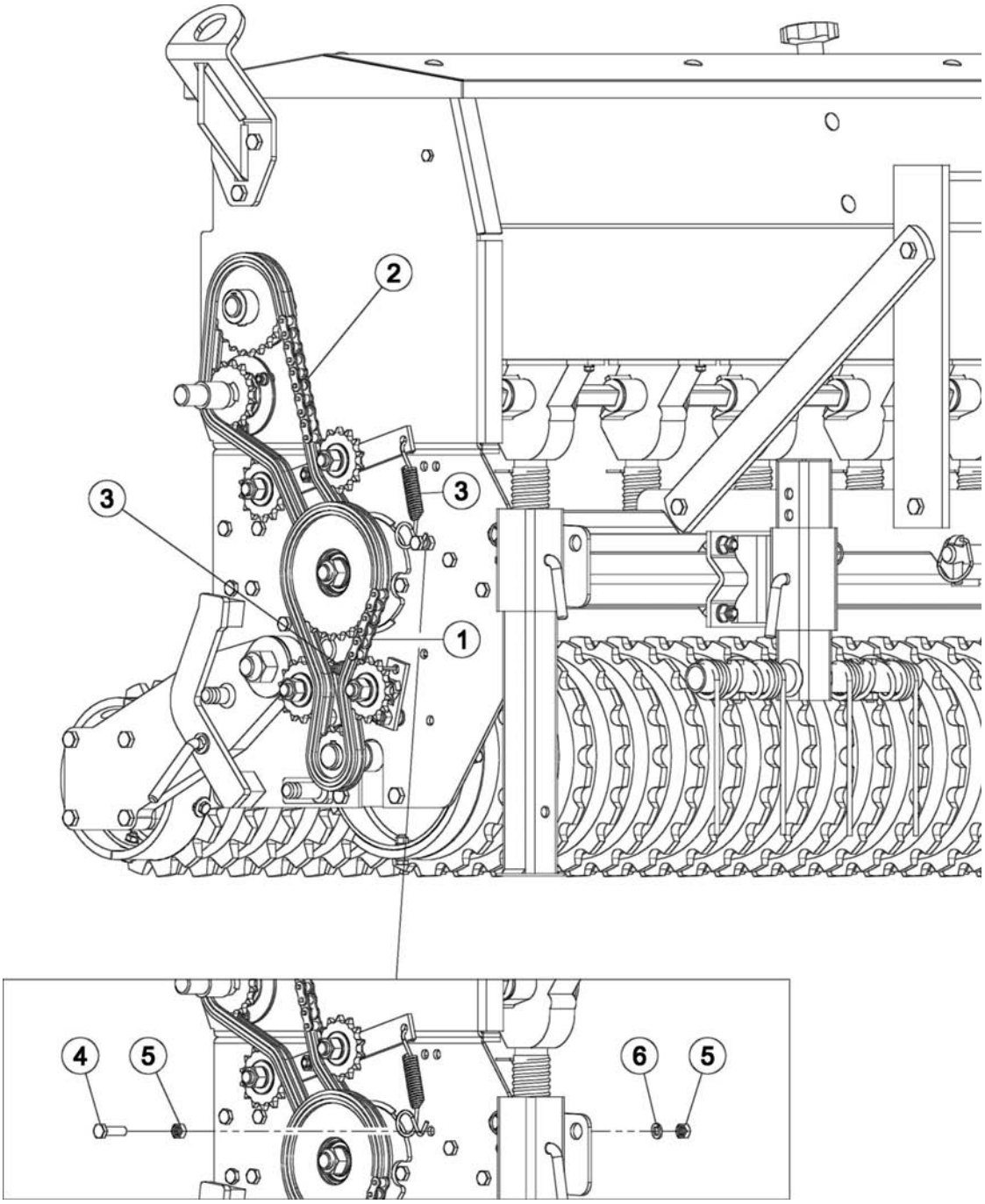
Ref.	Part #	Description	Qty.
1	008-8860	Chain case cover	1
2	008-4596	Access cover	2
3	009-1384	Nut ES M08-1.25 TK Z	2
4	003-0157	Washer fender Ø10 Z	2
5	001-5237	Nut ES M10-1.50 TN Z	2
6	008-8876	Spacer	2
7	000-6943	Bolt HH M10-1.50x120 C8.8 Z F	2
8	009-0150	Nut HH M10-1.50 C6 MD Z	4
9	008-4289	Bolt CR M08-1.25x20 C4.6 Z	3
10	000-3144	Washer lock Ø08 Z	12
11	000-1806	Nut HH M08-1.25 C6 TK Z	3
12	008-4528	Sprocket Z15 drive rod	1
	008-8840	Sprocket Z22 drive rod, option to slow seed distribution	1
13	008-4527	Sprocket Z22 auger shaft	1
	008-8800	Sprocket Z15 auger shaft, option to slow seed distribution	1
14	008-4376	Set screw M10-1.50x08 C14.9 N	2
15	000-6688	Key 8x7x35	1
16	000-6639	Key 8x7x25	1
17	008-4582	Sprocket Z13	1
18	004-6541	Flange bearing	4
19	009-1446	Bolt HH M08-1.25x25 C8.8 Z F	3
20	004-6545	Nut HH M08-1.25 C6 MD Z	18
21	004-6543	Bolt HH M08-1.25x30 C8.8 Z F	6
22	004-6525	Closing flange	2
23	008-4552	Sprocket assembly	1
24	008-4558	Bolt HH M20-2.50x90 C8.8 Z F	1
25	008-7499	Spacer	1
26	008-4556	Bearing 4204	1
27	004-6555	Washer flat Ø20 W	1
28	000-5507	Nut PT M20-2.50 C6 TK Z	1
29	008-8675	Chain tensioner support, lower; #328120 & above	2
30	000-6827	Spacer; #328120 & above	2
31	004-6644	Idler sprocket Z14	4
32	000-5581	Nut PT M16-2.00 C6 TK Z	4
33	003-0156	Nut PT M10-1.50 C6 TK Z	2
34	008-8685	Chain tensioner support, upper; #328120 & above	1
35	009-1281	Bolt HH M10-1.50x35 C8.8 Z F	2
36	003-0064	Nut PT M12-1.75 C6 Z TK	2
37	000-9726	Spring; #328120 & above	2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Ref.	Part #	Description	Qty.
1	008-8856	Chain ASA 50x50	1
2	008-8857	Chain ASA 50x66	1
3	000-9726	Spring, tensioner	2
4	003-8614	Bolt HH M10-1.50x40 C8.8 Z F	1
5	009-0150	Nut HH M10-1.50 C6 MD Z	2
6	000-1280	Washer lock Ø10 Z	1

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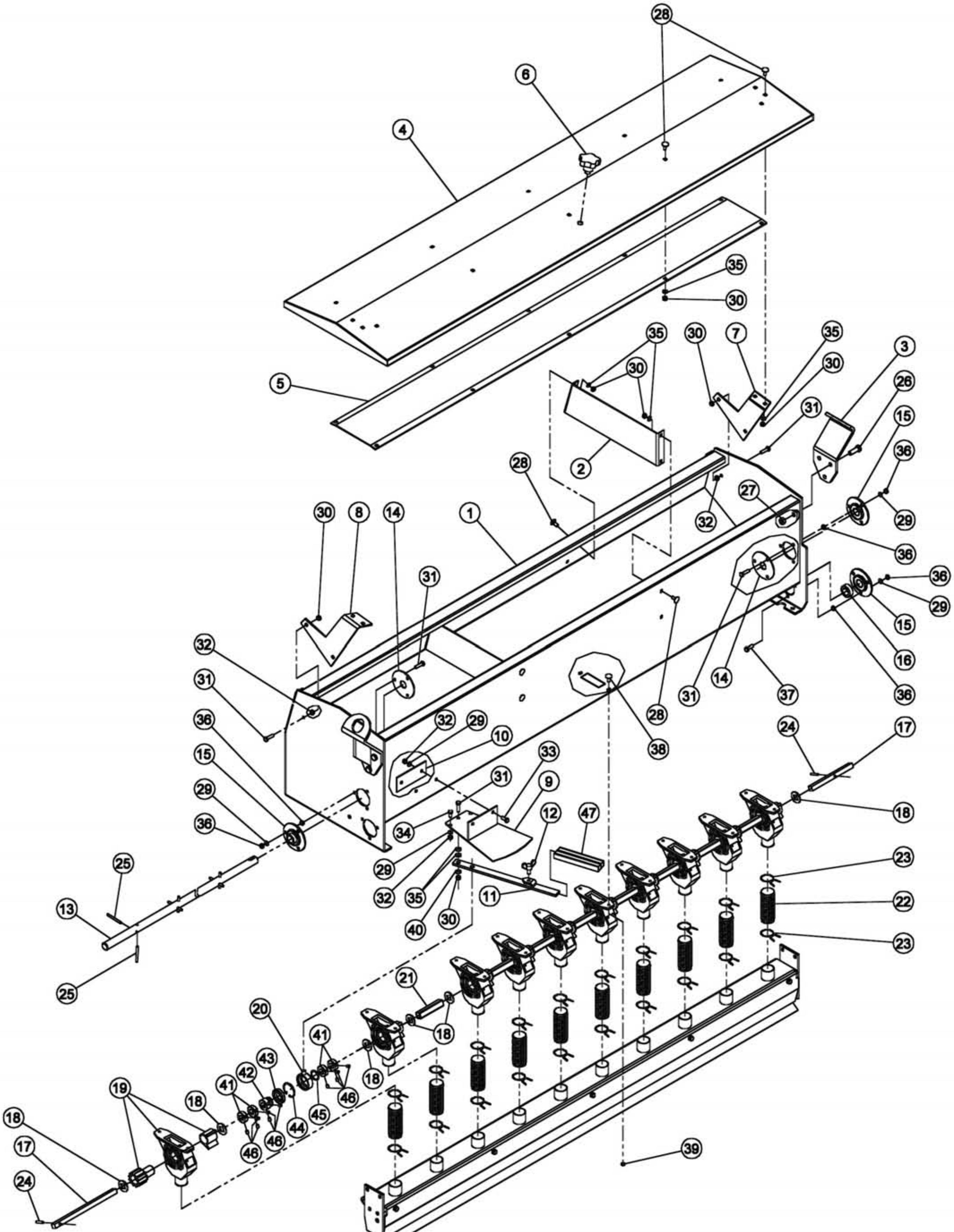
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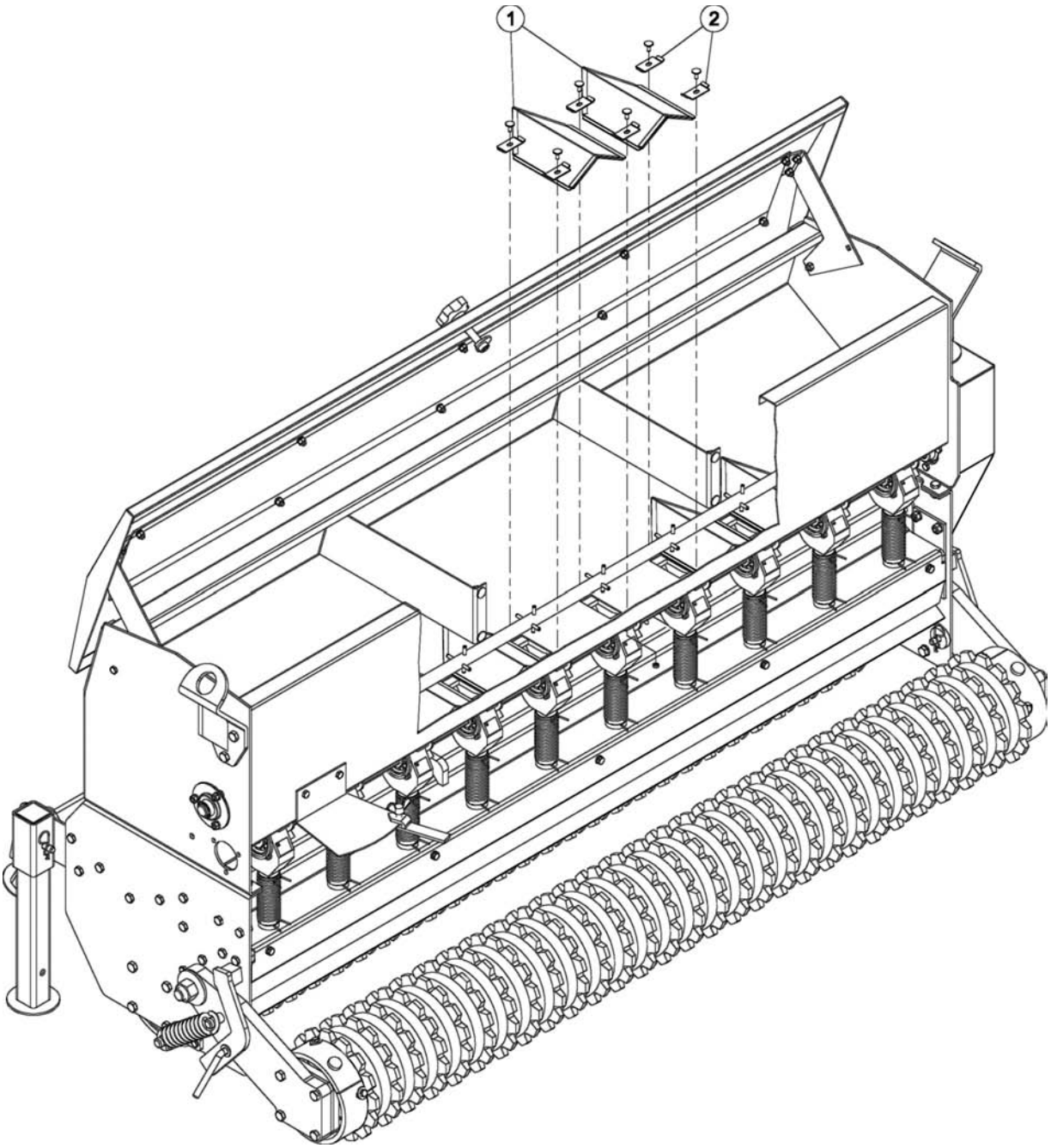
Ref.	Part #	Description	Qty.
1	048-8730	Hopper 74"	1
2	008-4287	Hopper support	2
3	008-4284	Lifting hook	2
4	048-8750	Hopper lid 74"	1
5	048-8754	Lid support 74"	1
6	008-4310	Plastic knob	1
7	018-4302	Hopper hinge, right	1
8	028-4302	Hopper hinge, left	1
9	008-4332	Calibration plate	1
10	004-6472	Plate	1
11	004-6561	Calibration handle	1
12	004-6465	Bolt wing M10-1.50x20 C5 Z	1
13	048-8790	Auger shaft 74"	1
14	004-6525	Closing flange	2
15	004-6541	Support, complete	3
16	008-4375	Collar Ø25, shaft	1
17	048-8810	Drive rod 74"	1
18	008-4415	Washer flat w/square hole	20
19	004-6531	Seed cup assembly	10
20	008-4342	Support, calibration handle	1
21	004-8391	Spacer, drive rod	8
22	008-8825	Fertilizer tube L. 11 cm.	10
23	004-6533	Wire ring clamp	20
24	000-6605	Roll pin Ø6x32	2
25	004-6521	Roll pin Ø6x60	20
26	000-7255	Bolt HH M12-1.75x35 C8.8 Z F	6
27	003-0064	Nut PT M12-1.75 C6 TK Z	6
28	008-4289	Bolt CR M08-1.25x20 C4.6 Z	22
29	000-3144	Washer lock Ø08 Z	13
30	009-1384	Nut ES M08-1.25 TK Z	25
31	004-6543	Bolt HH M08-1.25x30 C8.8 Z F	9
32	000-1806	Nut HH M08-1.25 C6 TK Z	6
33	001-5012	Bolt HH M08-1.25x20 C8.8 Z F	2
34	004-6454	Bolt HH M08-1.25x16 C8.8 Z F	2
35	000-2034	Washer flat Ø10 W	24
36	004-6545	Nut HH M08-1.25 C6 MD Z	18
37	009-1446	Bolt HH M08-1.25x25 C8.8 Z F	3
38	008-8748	Bolt CR M06-1.00x20 C4.6 Z	20
39	200-3001	Nut kep M06-1.00 Z	20
40	001-5230	Washer flat Ø08 W	1
41	008-4357	Locking collar, square hole	4
42	008-4352	Adjustment collar, square hole	1
43	008-4346	Bearing 61906 2RS	1
44	005-0144	Snap ring, inner Ø47	1
45	001-0122	Snap ring, outer Ø30	1
46	008-4354	Set screw M08x8	10
47	008-4345	Grip, calibration handle	1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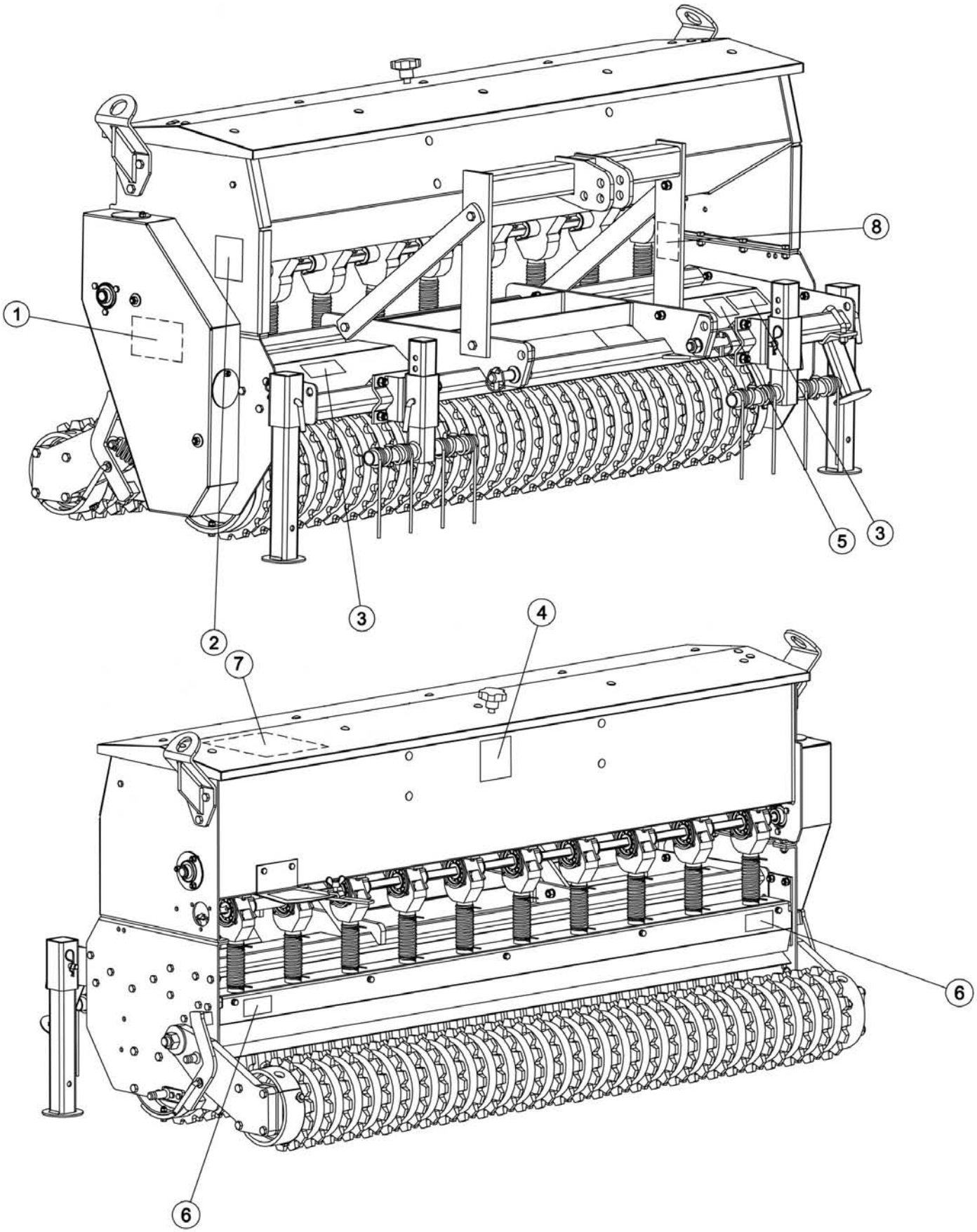
Ref.	Part #	Description	Qty.
1	008-8740	Seed conveyor	9
2	008-8742	Fixing plate, seed conveyor	20
	009-9138	Seed conveyors, complete	-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Ref.	Part #	Description	Qty.
1	950-213B	Decal "DANGER - Replace shield"	1
2	950-486B	Decal "DANGER - Moving parts hazard"	1
3	950-342B	Decal "DANGER - Crushing hazard"	2
4	950-343B	Decal "WARNING - Falling hazard"	1
5	950-417B	Decal "CAUTION - Read operator's manual"	1
6	950-366B	Decal, red reflective	2
7	950-293B	Decal "Seed distribution table"	1
8	950-940B	Decal "Quick hitch compatible"	1
	980-396B	Operator's & Parts Manual Command Seeder #328120 & above	1

Use only original spare parts

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Printed in the USA, January 10, 2017

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