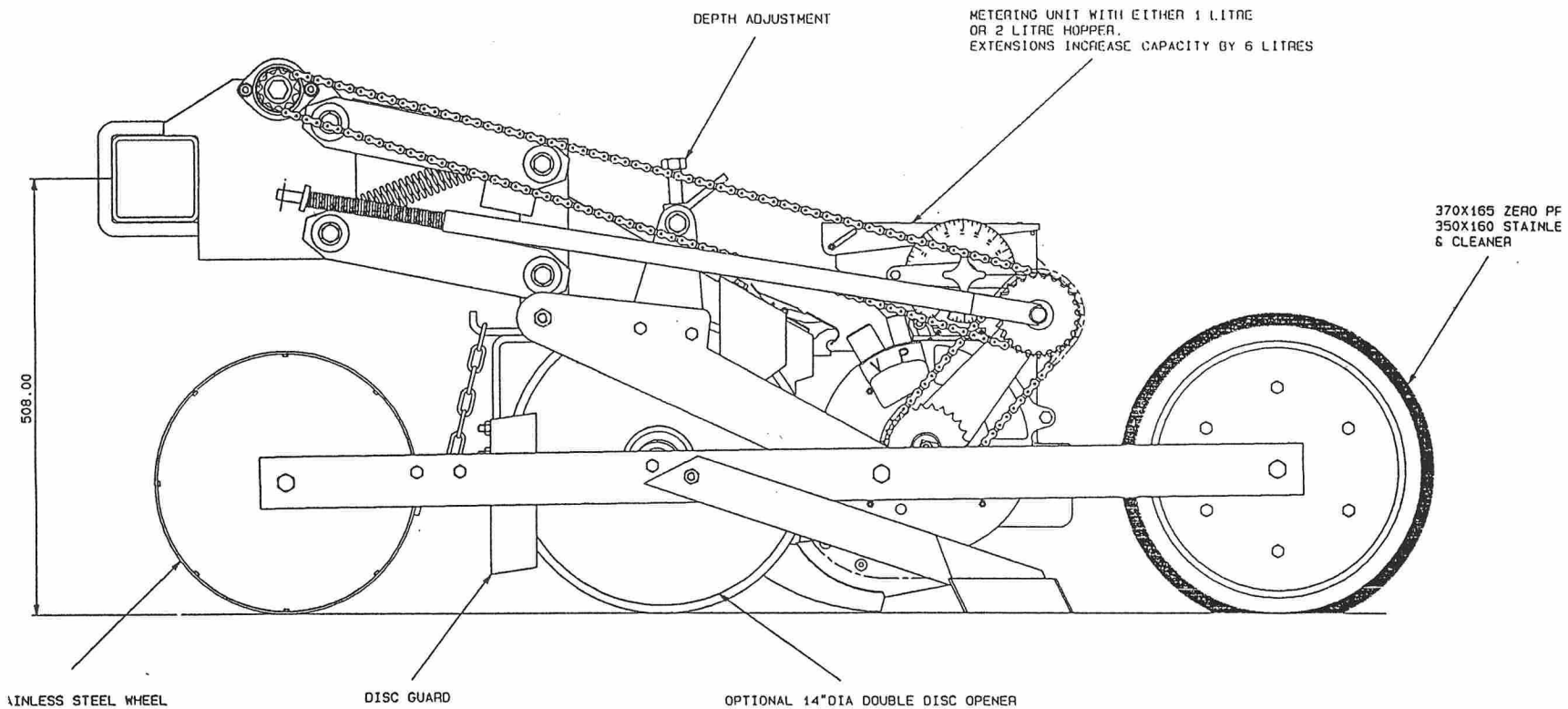


STANHAY SINGULAIRE 7120 60 DIAMOND

Rubber scraper blade

6902622



STANHAY SINGULAIRE 7120 100 SQUARE

1. Number metering units. Mark identification number on both halves of each metering unit and on each singulator. (**Note:** singulators are factory calibrated to ensure all units perform similarly: they **must** remain fitted to the units as supplied).
2. Check row units. Raise machine off the ground. Then check:
Wheels: check all wheels rotate: check adjustment of scrapers and cleaners.
3. Check P.T.O. shaft. Start P.T.O., raise machine fully. If shaft angle is not acceptable, move fan and headstock to lower position. (**Note:** fan cannot be lowered on machines with short extension brackets and clod deflectors: adjust stop on tractor linkage control lever quadrant instead). If necessary, shorten P.T.O. shaft to ensure end float at all times.

SAFETY INSTRUCTION. Fit splined P.T.O. shaft couplings securely. Secure shaft cover to prevent rotation in use.

4. Check hoses. Check all hoses are correctly and securely fitted:-

Vacuum: front of fan connects to front tubes on metering unit (marked 'V').

Pressure: rear of fan connects to rear tubes on metering unit (marked 'P').

Raise and lower machine: check hoses are not too tight, and do not contact shafts, sprockets or chains. (**Note:** unused hose stubs on the fan must be plugged).

5. Check hydraulics. Check operation of hydraulic markers or other hydraulic equipment.
6. Check drives. Check all drive chains are in line and drive shaft locking collars and bearing grub screws are fitted securely.
7. Check tyre pressures.

Chain Land Drive Wheels:	1.5 bar (22 psi)
Transport Wheels:	4.0 bar (59 psi)

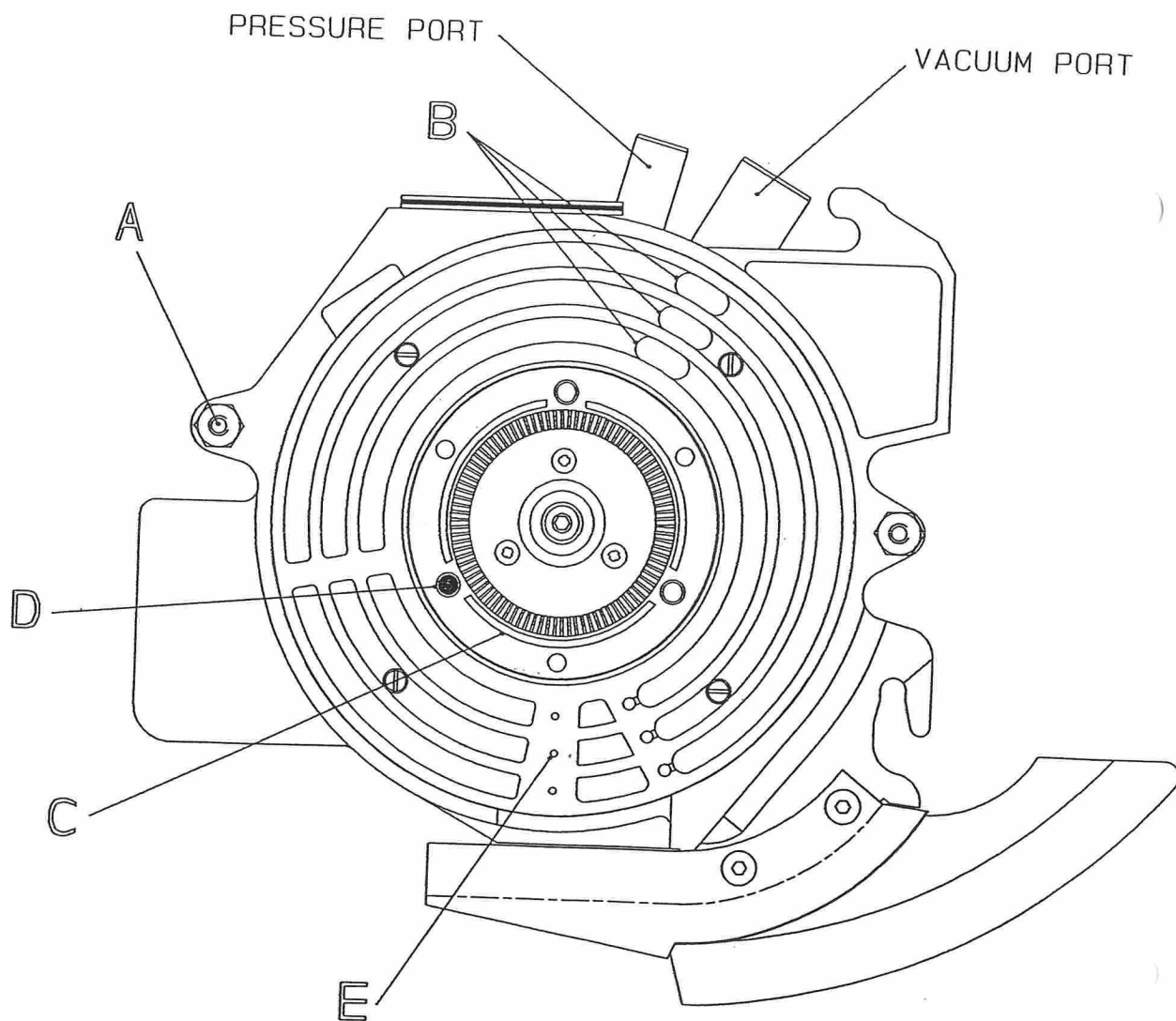
Notes on Disconnecting Unit Drive. This procedure facilitates removal of metering unit from chassis for fitting alternative coulters:

- a) Pull long drive chain upwards to compress knee joint spring. With other hand, transfer the R-clip in the end of the spring rod to a hole exposed about 50mm down the rod. Release the drive chain from the knee joint sprocket.
- b) To reconnect drive, re-fit drive chain, pull upwards to compress knee joint spring, and re-fit R-clip in normal position.

2. Check row widths. Lower machine to ground, draw forward and check row widths at coulter tips.
3. Clean metering units. Empty seed from hopper, using removeable drain plug. Remove hopper side of metering units and ensure the unit is absolutely clean. Use soft brush to clean vacuum galleries B; dry cloth to clean face of gallery block; air line to blow dust and seed dressing from inaccessible galleries. (Note: remove pressure hose from metering unit to allow dust to escape, and direct air line behind turntable C and through hole cleaning jets E.)

IMPORTANT. METERING UNITS SHOULD BE CLEANED AT LEAST TWICE A DAY AND AFTER WORK.

(Note: avoid using dirty or heavily dressed seed, as the unit will not function correctly with such seed: if its use is unavoidable, the unit must be cleaned frequently.)



Refer to SEED SETTING GUIDE (see pages 36-42) and check seed to be planted. Any variation from above standard arrangements is given as a "special instruction": follow these instructions using procedures on pages 13-15 (PREPARING METERING UNITS). (Note: body side of metering unit need not be removed from the row unit chassis for cleaning, preparation or setting).

5. **Choose settings.** Use SEED SETTING GUIDE to identify the following recommended settings:
 - a) Seed disc (see page 16 for detailed instructions on choosing a disc).
 - b) Rpm seed disc (i.e. revs/minute)
 - c) Vacuum m.b.
 - d) Pressure m.b.

Then select correct SEED SPACING CHART for the seed disc and unit drive shaft sprocket (11T or 16T) you will be using. Use the chart to choose the gear setting that gives the required seeding rate (see left hand columns). Then note the forward speed that gives the recommended rpm seed disc, and note the corresponding landwheel rpm.

6. **Set gearbox(es).** The gearbox(es) are incorporated within the main drive landwheel. See page 17 for detailed setting instructions (SETTING SEED SPACING).
7. **Check vacuum.** Ensure seed discs are free of grease and check all holes are clear of blockage. (Note: for care of seed discs, see page 16.) Fit seed discs carefully over drive pegs D, concave side towards vacuum galleries. (Note: if one peg is marked with red paint, fit the disc so the part number is opposite this peg.) Open fully both valves on the fan, start tractor, engage P.T.O. Raise engine rpm until recommended vacuum m.b. shows on vacuum gauge. (Note: if the gauge does not respond immediately, refer to SETTING AIR SUPPLY, page 18.)

**SAFETY INSTRUCTION. ONLY ENGAGE P.T.O. WITH ENGINE ON LOW RPM.
NEVER EXCEED 540 RPM P.T.O. SPEED.**

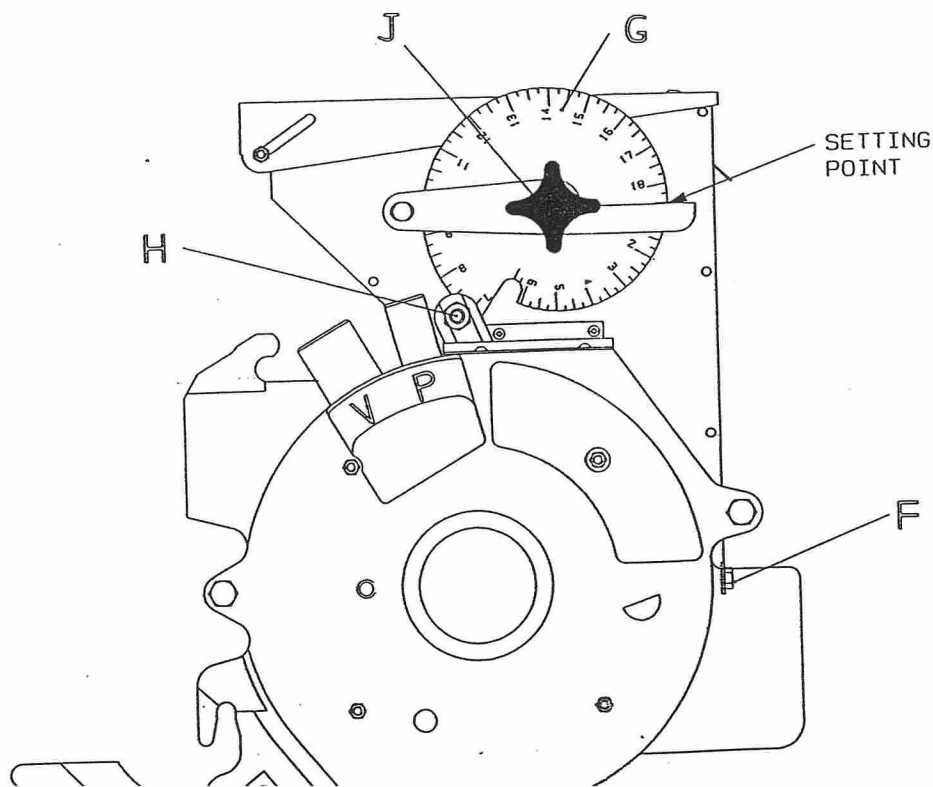
Fit calibration handle (if available) to landwheel arm stub shaft (see page 17). Rotate land drive wheel(s) in forward direction (using calibration handle), and check all seed discs are seated firmly without vibration or noise: turn over any offending disc and re-check. Having decided which side of each seed disc should face towards the vacuum gallery, mark the centre with a felt tipped pen, and always replace the disc this way round. A disc may need to be turned over after some work, but this will occur only once in its life time. (Note: always stop P.T.O. or remove vacuum hose before removing discs: handle discs carefully by the edges - grease from finger marks can adversely affect performance.)

8. **Assemble metering units.** Refit hopper side of metering units taking care they are not held apart by the top sealing brush, seed guides, or agitator gears: if necessary rotate agitator spindle F slightly. Lightly tighten both conical nuts A with a wrench or socket. Again

release; repeat several times to ensure singulators are settled in correct working position flat on seed discs. Rotate cams to setting 16 for zero singulation. Check seed emptying plugs are securely fitted and put seed in hoppers. Place container for collecting seed under each unit.

- b) Rotate land drive wheel(s) in forward direction at approx. required landwheel rpm (see page 5, paragraph 5). Check that all seed discs are picking up seed with very few misses. (Note: better distribution is obtained at lower vacuum levels, so do not be tempted to increase vacuum excessively to eliminate the odd miss, which is unavoidable with some seed.)
- c) Select a unit whose disc is clearly visible (the "calibration unit"). Again rotate land drive wheel at approx. required landwheel rpm and adjust singulator cam on the calibration unit until there are no seeds on the disc. Then gradually adjust to bring seeds back on the disc, until there are mainly single seeds. (The lower the setting number, the less seed will be planted.) Clamp singulator cam with handwheel J and re-check.
- d) When satisfied, set singulators on all remaining units to the same setting as the calibration unit. Clamp singulator cams. Empty seed containers into hoppers.

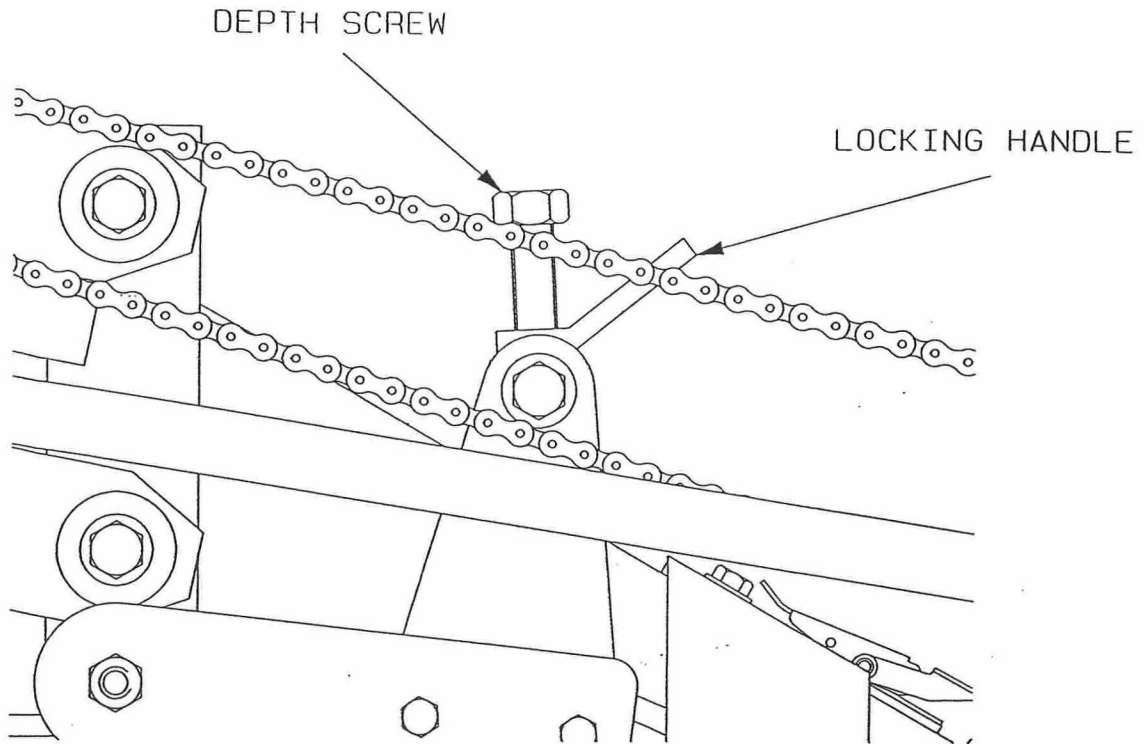
(Note: when the machine is new and when fitting new or alternative singulators, check that all units are calibrated similarly: for procedure, see pages 14-15.)



sowing depth is most easily achieved by progressively adjusting coulters downwards until the desired sowing depth is achieved).

EMPTY SEED FROM HOPPERS BEFORE TRANSPORTING MACHINE TO FIELD.

Release the locking handle and adjust the depth screw. Re-tighten locking handle.



set for seed spacing.

- b) **Singulator setting:** must be the same setting on all units.
- c) **Hopper emptying plugs:** must be securely fitted.

2. Prepare the tractor.

- a) **Wheel tracks:** ensure front and rear wheel tracks suit drill row widths.
- b) **Lower links:** adjust levelling box until headstock pins are horizontal: stabilizers or check chains must be fitted and adjusted to be tight when lower links are at working height.
- c) **Hydraulics:** connect and test any hydraulic equipment (e.g. markers).
- d) **Top link:** pull forward a few metres and fully lower tractor linkage: then adjust top link until machine headstock is vertical.

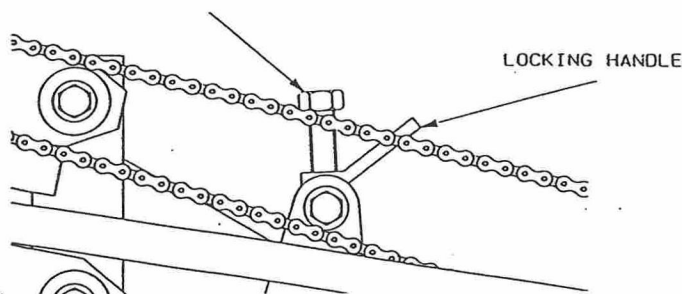
3. **Check toolbar height.** Nominal toolbar height (centre of toolbar to ground) should be 514mm (20.25 ins.) on 60 diamond bar, and 508 (20 ins.) on 100 square bar. On level seedbeds this is normally achieved with landwheel struts in 3rd hole (see diagram page 17). Check height adjacent to each land drive wheel and adjust struts if necessary.

4. **Select tractor gear.** Lift machine, engage P.T.O. and raise engine speed to achieve desired vacuum and pressure levels. Note tractor engine speed, and select tractor gear to give recommended forward speed.

5. **Check seed delivery.** Fill hoppers evenly with seed, close lids firmly. (Note: seed should be good quality, clean, with no soil, stones, paper, etc.: avoid using heavily dressed seed, as the dressing will be sucked off the seed and deposited in the vacuum galleries.) Rotate land drive wheel(s) by hand and check all seed discs are picking up and delivering seed evenly. If there is dampness on the coulter chutes, dry with a cloth or by blowing air through the units: (fully close valve A, then return it to original setting when chutes are dry).

6. **Sowing depth:** adjust coverers as necessary to achieve desired results: re-check sowing depth and adjust all units identically. Release the locking handle and adjust the depth screw. Re-tighten locking handle.

**CHECK FOR BLOCKED COULTERS
GO TO WORK**



markers if necessary.

- c) **Pivot limiters:** if a yoke bar with toolbar pivots is used, check the pivot limiters are set symmetrically and do not restrict the toolbars pivoting in work.
- d) **Clamp fasteners:** after a few hectares, check all clamp fasteners for tightness, including marker clamps.
- e) **Drive shaft:** after a few hectares, check drive shaft locking collars and bearing grub screws are secure.

NOTE: CORRECT OPERATION IS THE RESPONSIBILITY OF THE OPERATOR WHO SHOULD CHECK PERIODICALLY THAT THE DESIRED SEEDING RATE, PLANTING DEPTH AND MACHINE PERFORMANCE ARE BEING ACHIEVED.

- a) **ALWAYS** lower and raise machine on the move to prevent coulters blockage.
 - b) **ALWAYS** raise machine and check coulters for blockage if you have stopped for any reason whilst drilling.
 - c) **ALWAYS** move tractor linkage control lever to 'fully down' position when going into work to ensure adequate land wheel drive.
 - d) **ALWAYS** raise machine fully when turning at headlands.
2. Tractor forward speed
- a) **ALWAYS** operate at the recommended forward speed.
3. Hoppers and transport
- a) **ALWAYS** fill hoppers with seed to the same level, and check periodically that seed levels go down evenly.
 - b) **ALWAYS** keep hopper lids firmly closed except when filling.
 - c) **ALWAYS** empty hoppers of seed before transporting machine or driving long distances: for short distances, keep PTO engaged to ensure discs remain seated against vacuum galleries.
4. Gauges and seed discs
- a) **REGULARLY** check vacuum and pressure readings during work:
immediately investigate cause of any unexpected change of readings, or of any unusual noise from the fan (see page 18). A loud whistling noise from a metering unit indicates complete loss of vacuum. (Note: the tractor engine can be allowed to idle when the tractor is turning or is stationary at headlands: only during work must the vacuum and pressure be maintained.)
 - b) **REGULARLY** check unit performance. To check seed disc pick up, raise machine on the move at normal drilling speed, maintain vacuum, stop and inspect seed discs. (Note: misses usually indicate blocked holes in disc or unit requires cleaning.) To check singulator setting, use one of the field check procedures on page 21, paragraph 6.
 - c) **ALWAYS** wipe seed off the disc in the area of the singulator before replacing hopper side of metering unit, to avoid trapping seed between the singulator and the disc.
 - d) **ALWAYS** clean units at least twice a day and after work: do not leave seed, seed dressing or dust in the unit overnight: if the machine is to be out of use for more than **ONE DAY**, the seed discs should be removed and stored in a dry place. For care of seed discs see page 16.

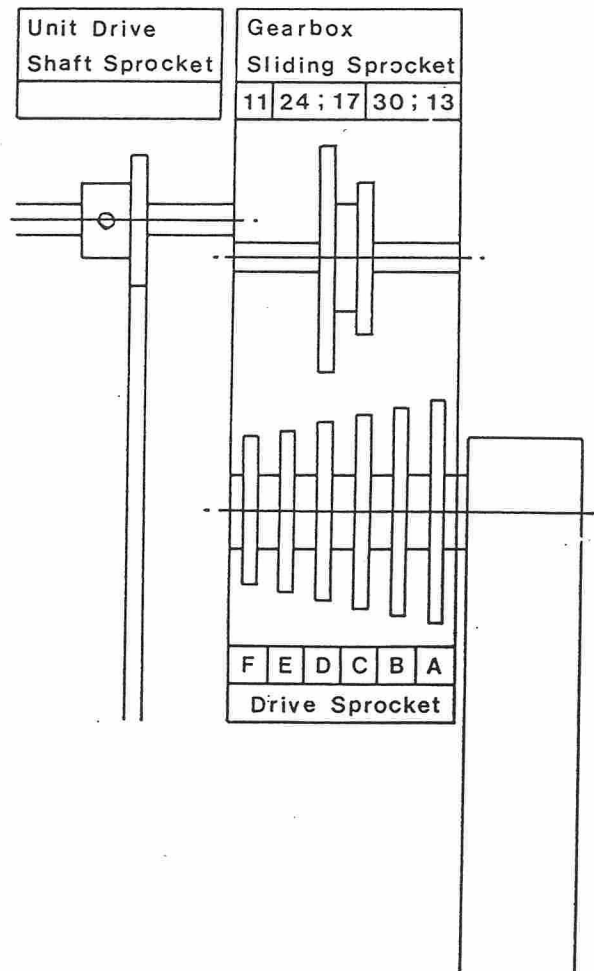
NOTES: 1. CORRECT OPERATION IS THE RESPONSIBILITY OF THE OPERATOR WHO SHOULD CHECK PERIODICALLY THAT THE DESIRED SEEDING RATE, PLANTING DEPTH AND MACHINE PERFORMANCE ARE BEING ACHIEVED.

transmission. Slacken the two adjuster frame wing nuts on the outside of the transmission box and pivot the layshaft assembly downwards to slacken the drive chain. REFER TO THE SEED SPACING CHARTS (pages 26-35). Hang the drive chain over the sprocket on the layshaft as required and slide the assembly along the shaft until the chain lines up with the appropriate sprocket on the primary drive shaft. To tension the chain pull the layshaft upwards and lock in position with the two adjuster frame wing nuts.

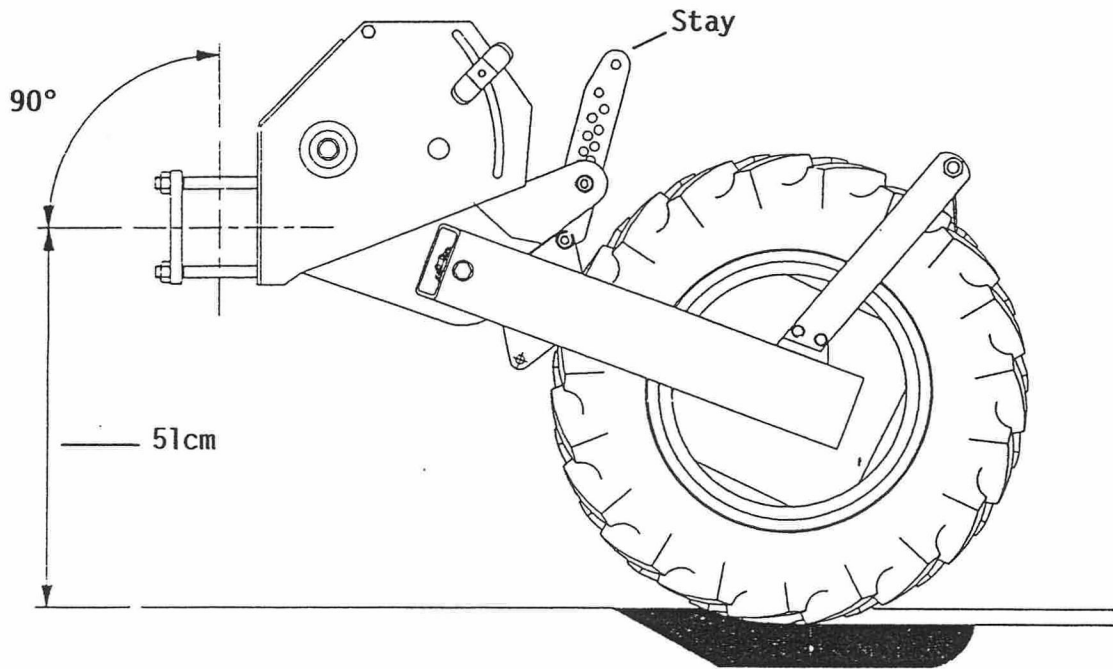
Check that the correct gear has been selected, rotate the landwheel and recheck chain tension, check the adjuster frame wing nuts are tight and close the guard.

Note: Where there is more than one Drive Landwheel fitted it is essential that all transmissions are set in the same gear setting.

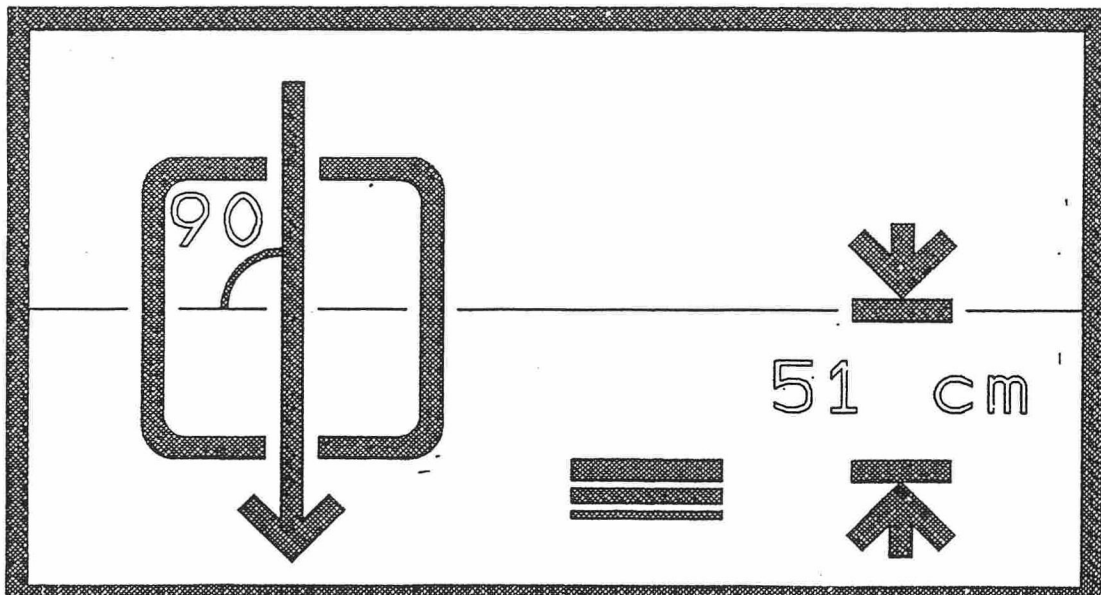
The primary drive chain is tensioned by loosening the wheel hub retaining nuts and adjusting the chain centres by means of slots in the hub flange. The drive from the layshaft to the main hexagon drive shaft is tensioned by means of a nylon rubbing block.



CLAMPING FACE OF TOOLBAR MUST BE VERTICAL

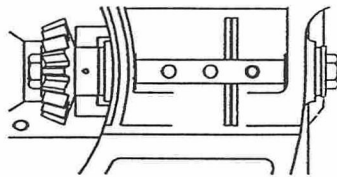
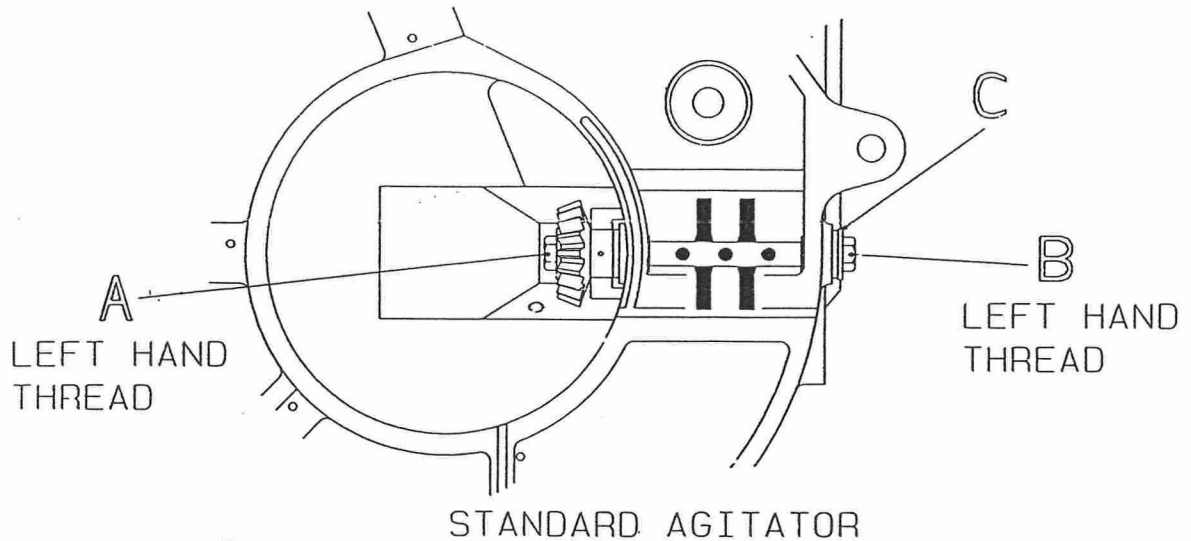


The wheels must be adjusted such that the toolbar height when set squarely, is nominally 51 cm. centre to the ground. This dimension should be checked adjacent to each landwheel, which should be individually adjusted to allow for variations in wheel sinkage over the width of drilling. Where landwheels are not running in tractor wheelings, use the third hole in the stay as a starting point before making final adjustments in the field: in tractor wheelings use the fifth hole as a starting point.

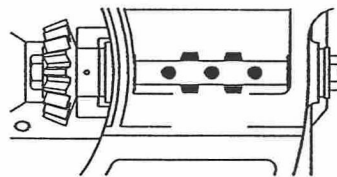


To prepare a PELLETED AGITATOR, snip off the fingers of a standard agitator to 3mm length. The PARSNIP AGITATOR has two roll pins in place of the rubber fingers. To fit, follow this procedure:

- a) Holding the agitator spindle with a pair of grips, unscrew gear assembly A (left hand thread) and bolt B (left hand thread). The complete Agitator may then be removed.
- b) When re-assembled the Agitator should turn freely. If more end float is required, washer C may be removed.



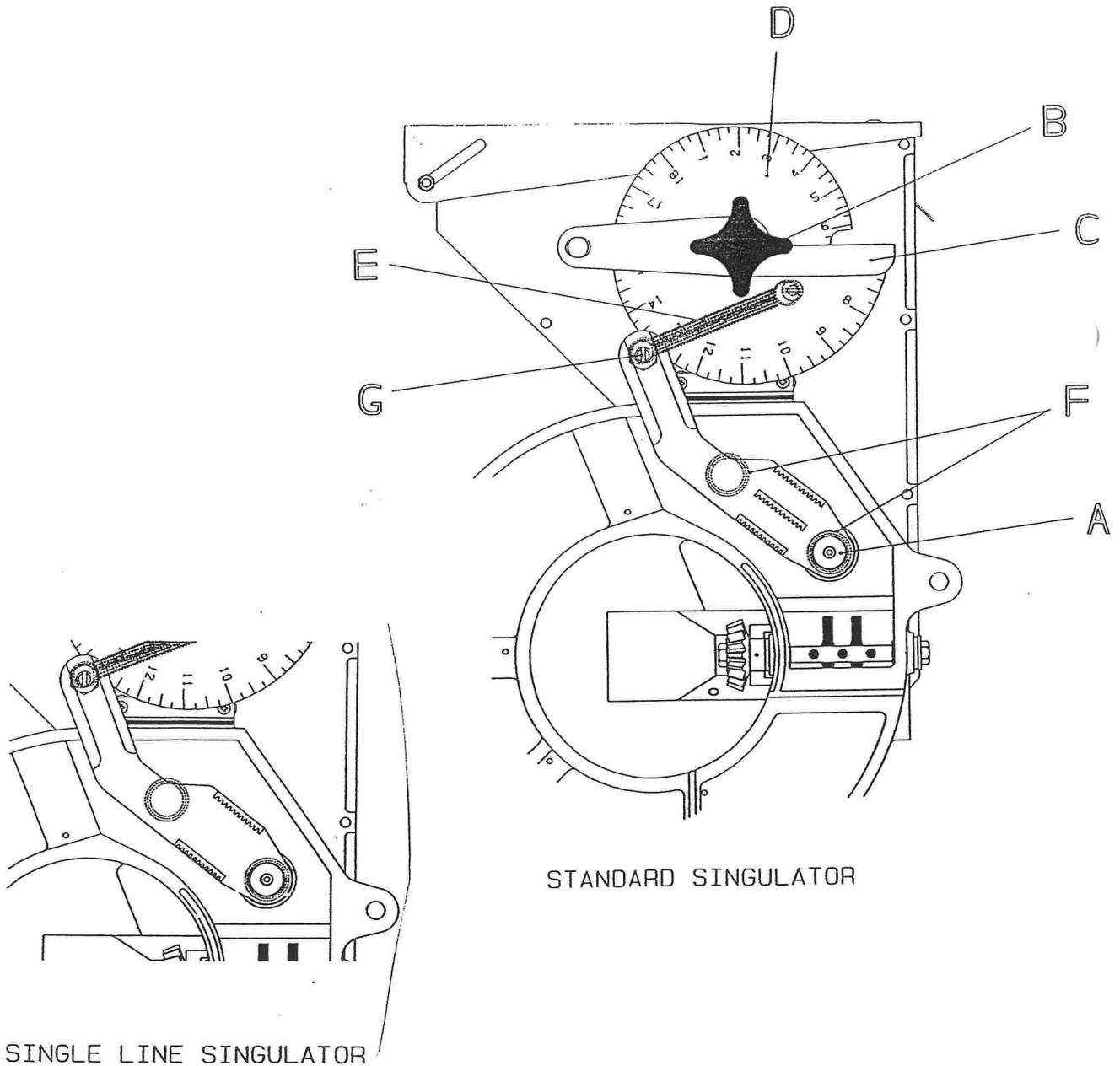
PARSNIP AGITATOR



PELLETED AGITATOR

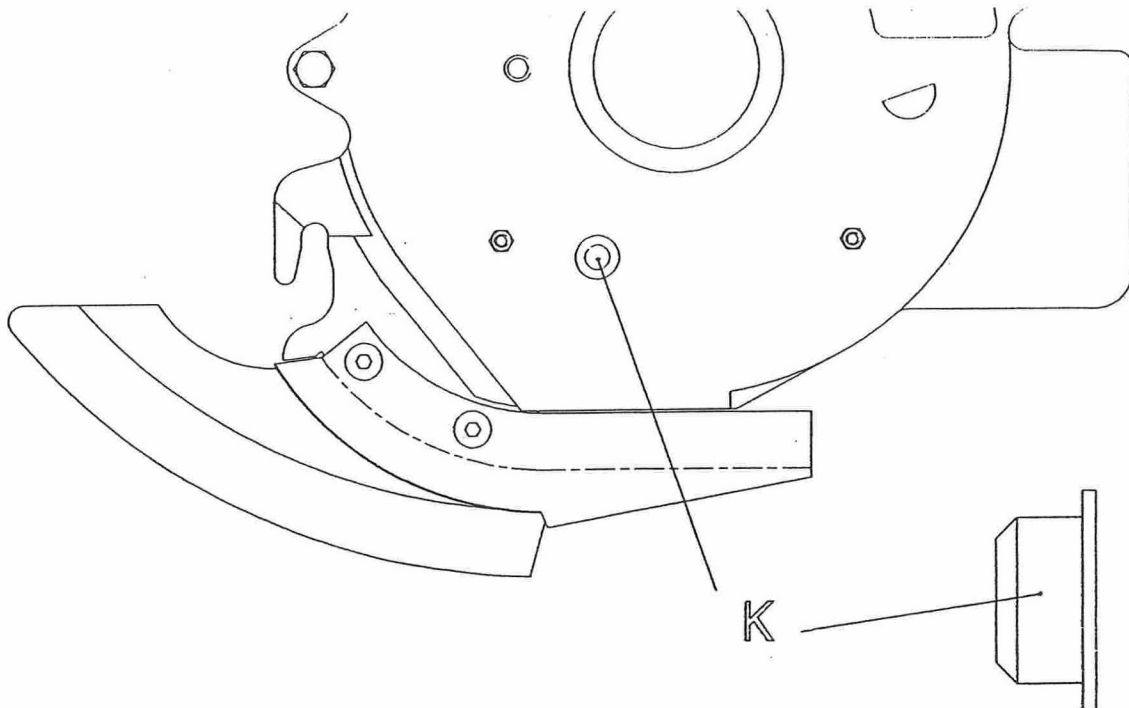
- a) Remove handwheel B and lift off setting arm C and setting cam D. Remove retaining cap A if fitted.
- b) Lift off Singulator, and unhook spring E.
- c) When re-assembling, ensure that springs F are located over the bosses on the underside of the Singulator.

(Note: Singulators are factory calibrated to ensure all units perform similarly: they **must** remain fitted to the units as supplied. When fitting new Singulators, the units must be re-calibrated - see instructions opposite.)



Singulators. Follow this procedure.

- a) Select your most difficult seed (for example raw carrot, raw chicory, raw lettuce).
 - b) Follow the calibration instructions for natural carrot seed, pages 20-21, paragraphs 1-4 **except** clamp the singulator cam on all units to setting 6 and leave them at this setting throughout the calibration procedure. Then calibrate each unit **individually** paragraph 5a-d) by adjusting the "eccentric boss" G until all units deliver the same "Target Weight". (To adjust the "eccentric boss", tighten the nut until the boss can just be turned by a large screwdriver, then adjust by turning anti-clockwise until the test collects the "Target Weight".)
 - c) Check in work that the seed usage from all units is similar (see page 21, paragraph 6). If seed usage from any unit is slightly different from the remainder, adjust the singulator until all units perform similarly.
4. Vacuum Release Hole. Seed spacing benefits occasionally by fitting a plastic plug in the vacuum release hole K. For most seed types, this plug must not be fitted. Refer to SEED SETTING GUIDE, and check each unit carefully. When not required, the plug may be stored on the end of the hopper lid pivot rod L.



- a) Find the seed you wish to plant in the SEED SETTING GUIDE (see pages 36-42). Select the number of lines you will be planting (1, 2 or 3) and note the recommended seed disc. (Note: the first digit - for example 0.6 - is the diameter of each hole in mm: the second digit - for example 96 - is the number of holes in each line: a single line disc of this specification is designated 0.6 x 96 x 1 line, a two line disc 0.6 x 96 x 2 line, and a three line disc 0.6 x 96 x 3 line.)
- b) You may be given a choice of seed discs (for example, 96 or 48 holes). If so, for faster forward speeds, choose the greater number of holes, but for best accuracy of seed spacing when multi-line drilling, choose the lesser number of holes.
- c) Three disc speeds are shown: slow (12 rpm), medium (17 rpm) and fast (25 rpm). As a general rule, the slower the disc speed the better the seed spacing, particularly with multi-line drilling. The special instructions section on the SEED SETTING GUIDE indicates where alternative instructions apply.
- d) Having selected a seed disc, refer to the SEED SPACING CHART for the appropriate number of holes and the unit drive shaft sprocket you will be using (11 tooth or 16 tooth). Then check that the disc speed you have chosen (rpm seed disc) gives an acceptable forward speed at the seed spacing you require.
- e) Standard seed discs are shown in the SEED SETTING GUIDE. Other discs are available to special order. These include 3-line discs for carrot and onion giving 75% seeding rate in the central line (for example 0.6 x 144/144/108; 0.8 x 96/96/72; etc.) For full list, see page 1 of Parts List section.

2. Care of Seed Discs. Proper care of seed discs is essential to ensure consistent performance. Follow these guidelines:

- a) Handle gently, by the edges. Do not attempt to remove from unit without first stopping the fan or disconnecting the vacuum hose from the unit.
- b) Store in a dry place, preferably in the original wrapping. Always remove from machine if it is to be out of use for more than one day.
- c) If you suspect the disc is greasy, clean thoroughly with a solvent solution. (Grease can cause seeds to stick to the surface of the disc). Always clean new discs with solvent solution before use.
- d) Always check all holes in seed discs are clear of blockage before refitting in units. Blocked holes can be cleaned with fine wire, or re-sized using a fine drill bit of the correct size. (Note: this operation requires extreme care.)
- e) Always fit discs in metering unit with concave side towards vacuum galleries. If the fit over the turntable is too tight, rub the inner diameter of the disc lightly with fine abrasive paper until an exact fit is achieved. Do not attempt to flatten the disc.

both the lower 'drive sprocket' and the upper 'sliding sprocket' that are required.

There are 3 interchangeable 'sliding sprockets' in the gearbox:

- a) 17T : 24T of Standard fitment: provides the most popular range spacings.
- b) 13T : 30T Provides spacings both above and below the standard range.
- c) 11T For use when very close spacings are required.

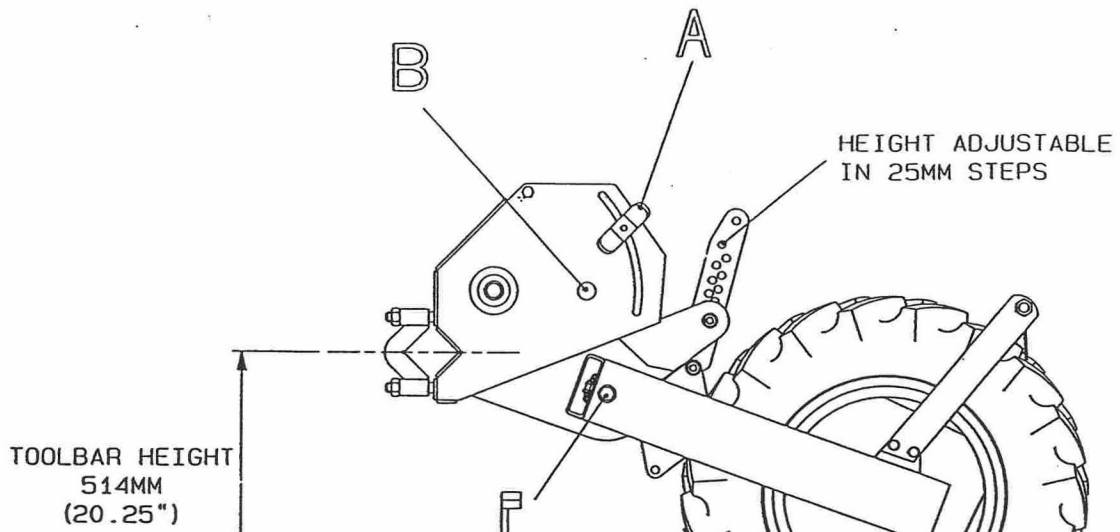
(Note: 16T shaft sprockets give closer spacings than 11T shaft sprockets.)

2. Set seed spacing. Follow this procedure:

- a) Loosen nuts A, pivot layshaft downwards to slacken drive chain.
- b) Check required 'sliding sprocket' is fitted: if not, follow procedure * below.
- c) Fit drive chain over appropriate 'drive sprocket' and 'sliding sprocket', check that the chain is in line, and re-tension.
- d) Turn landwheel by hand and check chain tension and drive.

* To Change Sliding Sprocket

- a) Pivot layshaft until it is in line with the holes in the gearcase B.
- b) Gently tap layshaft through the hole towards the wheel area, change 'sliding sprockets' as required, and tap layshaft back into position.



and the recommended normal speed 1000 rpm. Check recommended seed discs are fitted in all units.

2. **Check for leaks.** Check all hoses are securely connected. Check unused vacuum and pressure ports C on fan are securely plugged.
3. **Set valves.** Follow this procedure:
 - a) Open fully valves A and B on fan, start tractor, engage P.T.O. on minimum engine speed.
 - b) Increase tractor engine speed until required vacuum reading shows on vacuum gauge.

SAFETY INSTRUCTION. NEVER EXCEED 540 RPM P.T.O. SPEED.

(Note: if the gauge does not respond immediately to the increase in engine speed, or the belt screams, the fan drive belt is probably slack: follow tightening procedure * below).

- c) Progressively close valve A until the required pressure reading shows on pressure gauge. Increase engine speed if necessary to maintain vacuum level. If pressure reading is too high even with valve A fully open, remove plugs from unused pressure ports.
- d) Pour seed into hoppers, turn land drive wheel(s) in forward direction to prime the discs with seed, and readjust vacuum and pressure if necessary (see notes below).

Notes on Setting Valves

- a) Increasing tractor engine speed increases both vacuum and pressure.
- b) Closing valve A increases pressure and reduces vacuum.
- c) Valve B is normally left fully open: closing it reduces both vacuum and pressure.
- d) Air inlet port G is normally left open.

Notes on Fan Maintenance

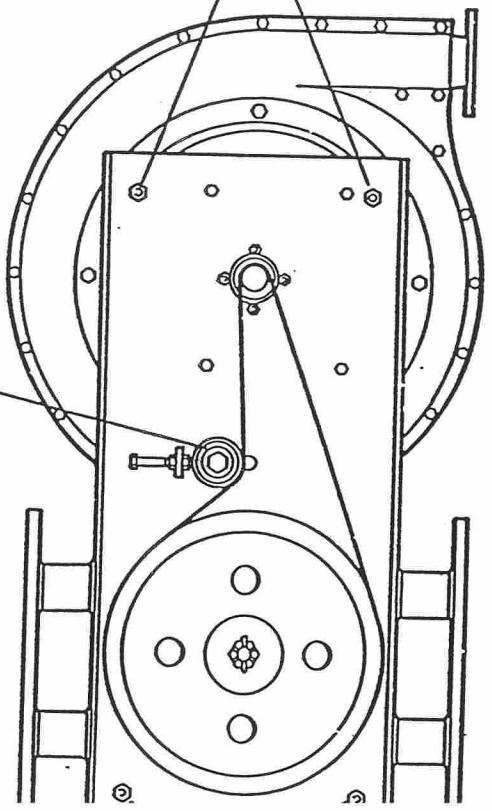
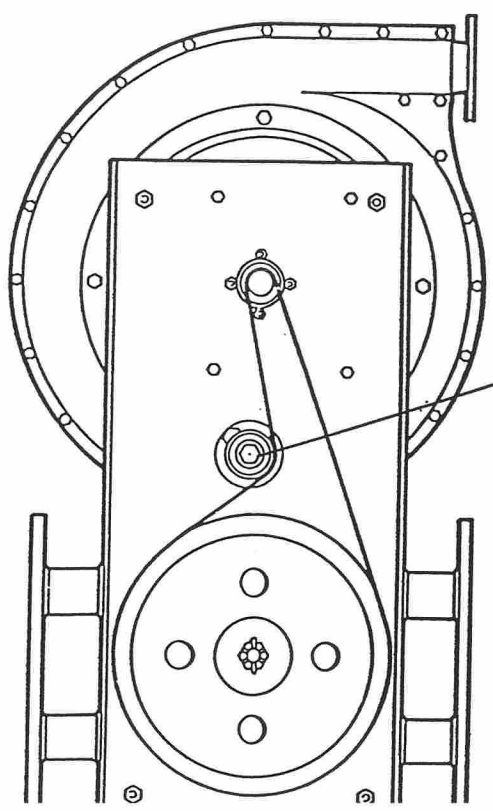
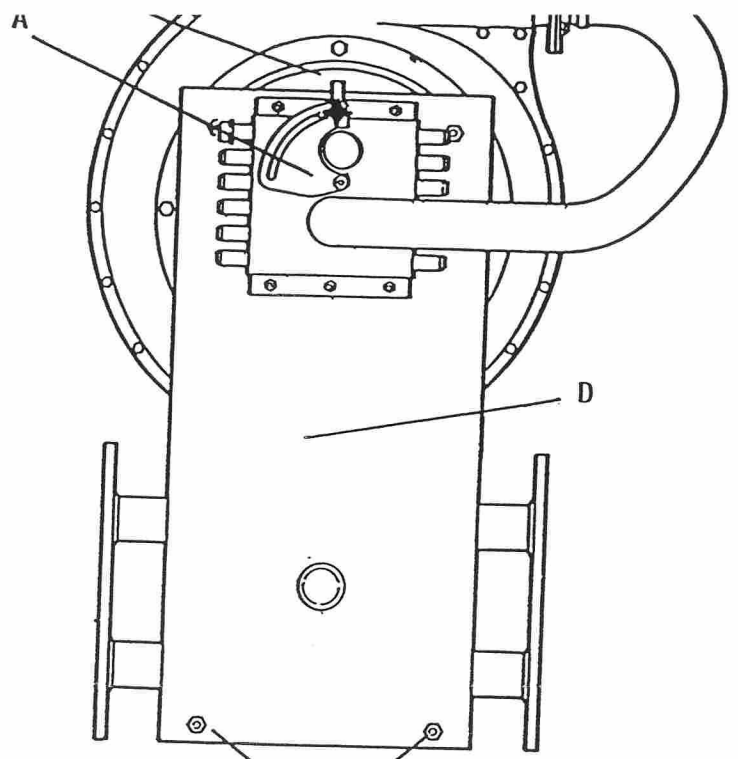
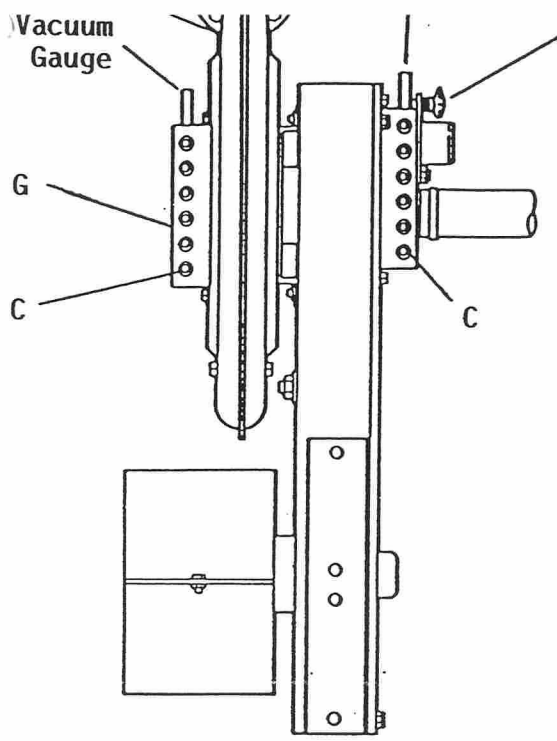
- * a) To adjust belt tension. Disengage P.T.O., stop tractor engine, disconnect PTO shaft. Remove four self locking nuts E.

Remove drive cover D complete with pressure manifold.

Tension drive belt using jockey roller F. Replace drive cover and secure with two nuts. Reconnect PTO shaft, start tractor engine, engage P.T.O and check fan is performing correctly. Disengage P.T.O., stop tractor engine, remove drive cover and check drive belt has been tracking correctly. Replace drive cover and secure with four self locking nuts.

SAFETY INSTRUCTION. ALWAYS DISCONNECT THE P.T.O. SHAFT BEFORE WORKING ON THE FAN UNIT.

- b) Noise. The type of fan unit used on this machine should run very



1. You must have:

- a) Scales weighing to +/- 0.1 gram.
- b) Container for placing under the unit to collect seed.
- c) Calibration handle.

2. Choose settings. Use SEED SETTING GUIDE for CARROT - RAW/COATED (see page 44) to select required **seed disc**. (**Note:** for most seed spacings use a 0 0.6 x 96 hole disc, but for seed spacings over 50mm best results are obtained using a 0 0.6 x 48 hole disc.) Then use appropriate SEED SPACING CHART to select gear setting that gives required seeding rate. (Use SEED POPULATION GUIDES to help calculate field populations). Then choose either **25rpm** or **17rpm seed disc speed**, based on your preferred **forward speed**, and note the corresponding **landwheel rpm** (you will need this for the calibration procedure).

3. Calculate "Target Weight". From the SEED SPACING CHART (right hand column) note the number of revs of the seed disc for 25 revs of the landwheel in selected gear. This figure multiplied by the total number of holes in the discs give the number of single seeds which should be delivered for 25 revs of the landwheel.

Use the information given on the seed packet to determine the weight of this number of seeds: we call this the "Target Weight". (**Note:** seed packets normally show seeds per 10 gram or seeds per ounce.)

(**Example:** machine with 11 tooth unit drive shaft sprocket, target seeding rate 26 per metre/8 per foot in each of 3 lines: use 0.6 x 96 x 3 line disc, in gear F13, which gives 13.3 revs of the seed disc for 25 revs of the landwheel. Number of single seeds for 25 revs of the landwheel is therefore $13.3 \times 96 \times 3 = 3830$. If seed packet shows 4670 seeds per 10 gram (467 per gram), the weight of 3830 seeds is $3830 \div 467 = 8.2$ gram.)

4. Set air supply. Follow this procedure:

- a) Ensure vacuum release holes K of all units are unplugged (see page 15).
- b) Remove hopper side of all metering units. Fit seed discs, concave side towards vacuum galleries.
- c) Open valves A and B on fan. Start tractor engine. Raise machine clear of ground. Engage tractor P.T.O. Increase engine rpm until vacuum gauge reads 50 m.b.
- d) Rotate land drive wheel(s) in forward direction and check all seed discs are seated firmly without air leaks or vibration: turn over any offending disc and re-check.
- e) Replace hopper sides of all metering units, checking unit halves seat together correctly. Lightly tighten both conical nuts.

SINGULAIRE 7120

PARTS LISTS

Contents

	<u>Page</u>
Singulaire 7120 (line drawing)	
List of seed discs	1 - 1a
Metering Unit - Hopper Side	3 - 5
- Drive Side	7
- Knee Joint	9
Hopper Extensions	11
Coulters	13
Fan & Drive	15 - 17
Gauges	19
Headstock/Fan Brackets/Parking Stand	21
Toolbars/Shafts/Miscellaneous	23
Master Landwheel/Gearbox:	
- Single Type - 4.00 - 16 Tyre	
- 60 x 60 toolbar	25 - 27
- Single Type - 6.00 - 16 Tyre	
- 100 x 100 toolbar	29 - 31
Spring Loading Conversion	33
General Warranty Policy	Inside Back Cover

PARTS ENQUIRIES

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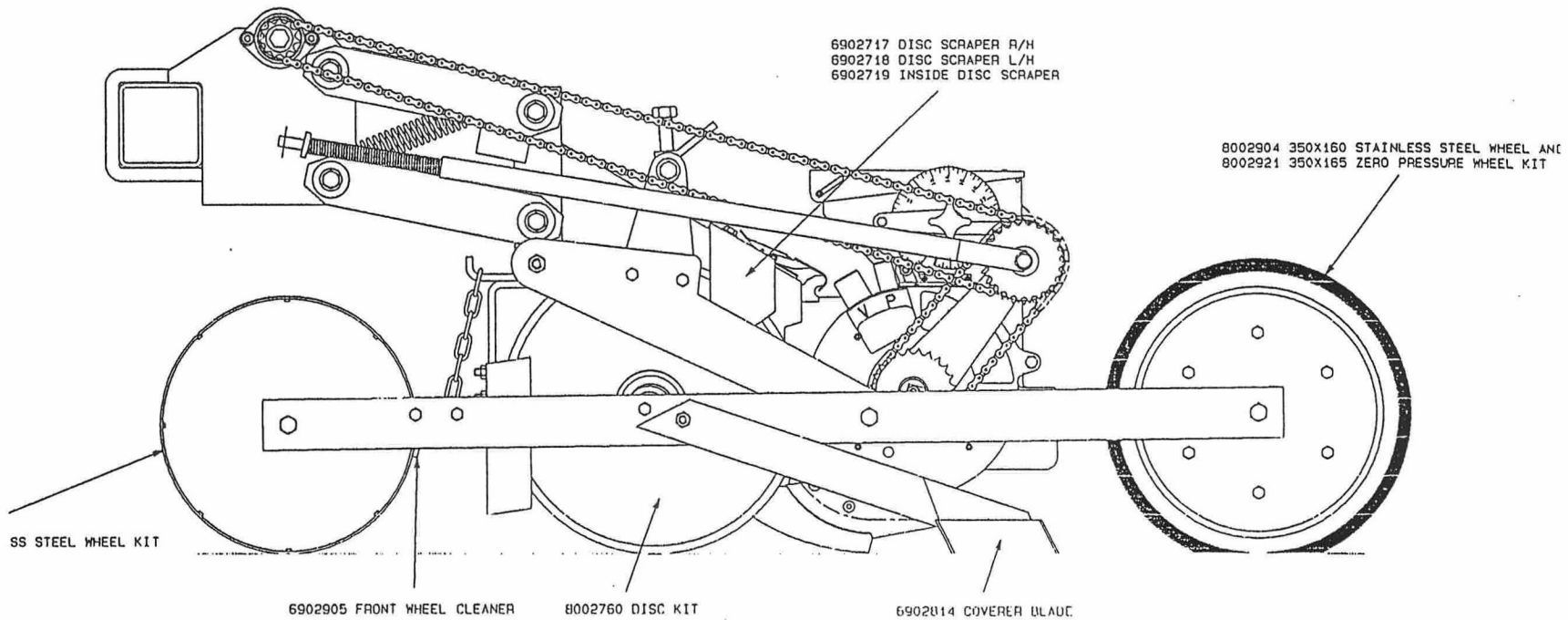
WHEN ORDERING PARTS PLEASE QUOTE THE FOLLOWING INFORMATION:

1. Model - SINGULAIRE 7120
2. Order number.
3. Part number and description.

PLEASE NOTE:

The parts listed are not necessarily supplied as unit items, they may be part of an assembly or be packed in quantities.

Some of the parts shown are optional extras and are not fitted as standard to new machines.

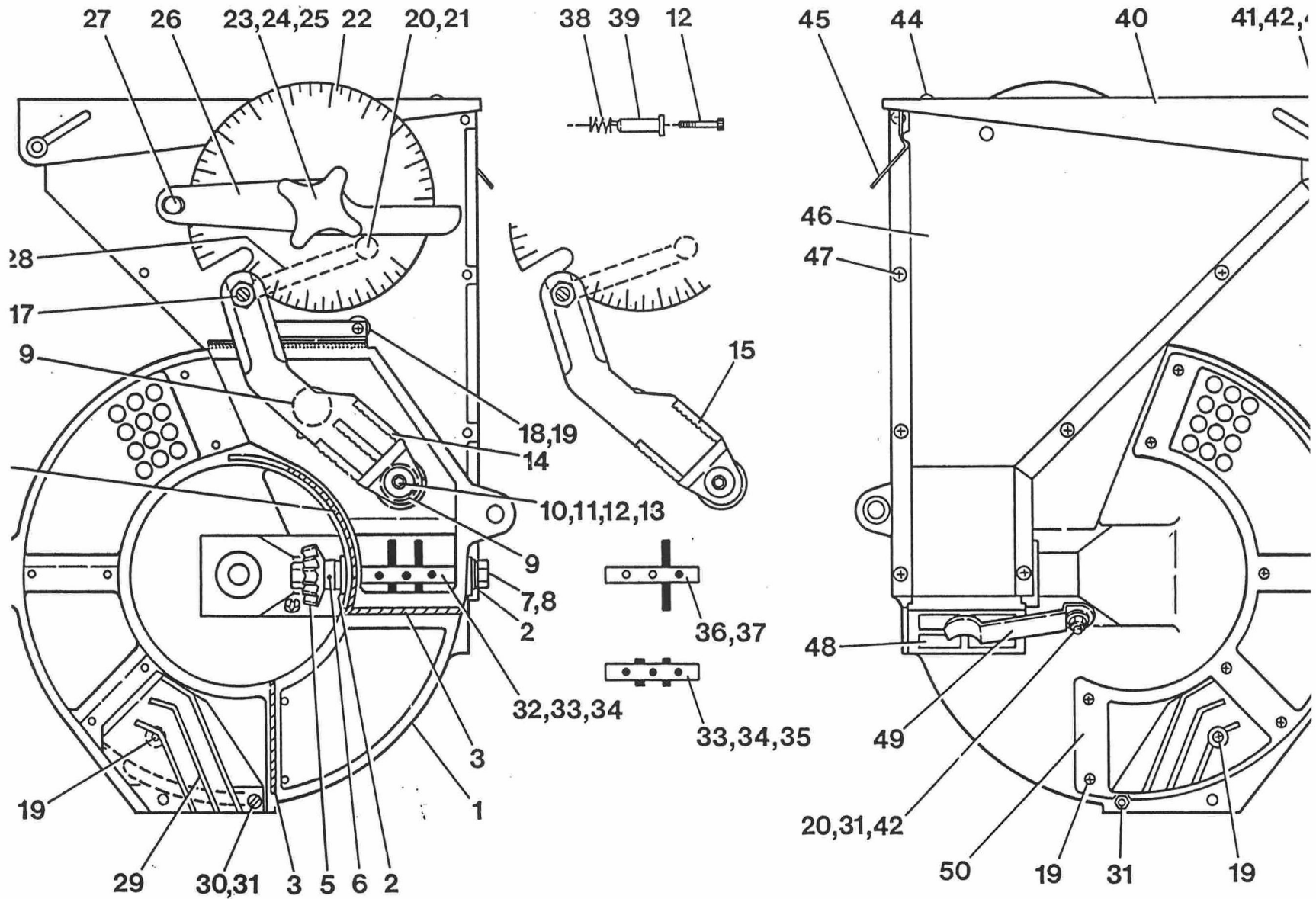


STANHAY SINGULAIRE 7120

6902706	No holes	6902639	0.6 x 48 x 48 x 36 special
6902868	0.5 x 12 groups of 2	6902630	0.6 x 96 x 96 x 72 special
6902970	0.5 x 12 groups of 3	6903149	0.6 x 96 x 96 x 82 special
6902865	0.5 x 24 groups of 2	6902531	0.7 x 12 groups of 3
6902533	0.5 x 12 x 1 line	6902979	0.7 x 12 groups of 4
6902489	0.5 x 24 x 1 line	6903111	0.7 x 24 groups of 3
6902488	0.5 x 48 x 1 line	6903146	0.7 x 96 x 2 line
6902557	0.5 x 48 x 2 line	6903147	0.7 x 120 x 2 line
6902400	0.5 x 48 x 3 line	6903122	0.7 x 120 x 3 line
6902532	0.5 x 96 x 1 line	6902705	0.8 x 12 groups of 2
6902558	0.5 x 96 x 2 line	6902966	0.8 x 12 groups of 3
6902690	0.5 x 96 x 3 line	6902930	0.8 x 72 x 2 line
6903095	0.5 x 144 x 2 line	6902953	0.8 x 12 groups 4 x 2 line
6902698	0.5 x 144 x 3 line	6902750	0.8 x 12 x 1 line
6902559	0.5 x 192 x 2 line	6902643	0.8 x 24 x 1 line
6902702	0.5 x 192 x 3 line	6902812	0.8 x 24 x 2 line
6902568	0.5 x 96 x 96 x 72 special	6902826	0.8 x 24 x 2 line/staggered
6903093	0.6 x 120 x 96 special	6902565	0.8 x 48 x 1 line
6903094	0.6 x 96 x 120 special	6902646	0.8 x 48 x 2 line
6902648	0.6 x 24 x 3 line	6902562	0.8 x 48 x 3 line
6902624	0.6 x 48 x 1 line	6902828	0.8 x 72 x 1 line
6902691	0.6 x 48 x 2 line	6902567	0.8 x 96 x 1 line
6902645	0.6 x 48 x 3 line	6902629	0.8 x 96 x 2 line
6902967	0.6 x 60 x 1 line	6902647	0.8 x 96 x 3 line
6902776	0.6 x 72 x 1 line	6902958	0.8 x 144 x 1 line
6902777	0.6 x 72 x 2 line	6903007	0.8 x 144 x 2 line
6902778	0.6 x 72 x 3 line	6003070	0.8 x 48 x inside line
6902566	0.6 x 96 x 1 line	6902632	0.8 x 96 x 96 x 72
6902637	0.6 x 96 x 2 line	6902490	1.0 x 8 x 1 line
6902563	0.6 x 96 x 3 line	6902957	1.0 x 24 x 1 line
6903092	0.6 x 120 x 2 line	6902625	1.0 x 48 x 1 line
6903071	0.6 x 144 inside line	6902829	1.0 x 72 x 1 line
6902668	0.6 x 144 x 2 line	6902670	1.0 x 96 x 1 line
6902667	0.6 x 144 x 3 line	6902623	1.0 x 96 x 2 line
6902669	0.6 x 144 x 144 x 108	6902944	1.0 x 96 x 3 line
6902000	0.6 x 102 x 2 line	6902077	1.0 x 96 x 3 line

2914	1.2 x 12 groups of 3
6902863	1.2 x 12 x 1 line
6902692	1.2 x 24 x 1 line
6902626	1.2 x 48 x 1 line
6902960	1.2 x 48 x 2 line
6902534	1.2 x 96 x 1 line
6902640	1.2 x 96 x 2 line
6902564	1.2 x 96 x 3 line
6902976	1.2 x 144 x 1 line
6902961	1.2 x 24 x inside line
6903148	1.2 x 48 x inside line
6902642	1.2 x 96 x 96 x 72
6902980	1.4 x 24 x 1 line
6902963	1.4 x 48 x 1 line
6902809	1.4 x 48 x 2 line
6902649	1.4 x 48 x 3 line
6903110	1.4 x 72 x 1 line
2952	1.4 x 72 x 2 line
6903109	1.4 x 72 x 3 line
6902975	1.4 x 96 x 1 line
6903139	1.4 x 96 x 1 line
6903125	1.4 x 96 x 3 line
6903140	1.4 x 96 x 96 x 72 special
6902981	1.6 x 12 groups of 2
6902864	1.6 x 12 x 1 line
6902712	1.6 x 24 x 1 line
6902821	1.6 x 48 x 2 line
6903145	1.6 x 72 x 3 line
6903144	1.6 x 96 x 2 line
6903057	2.0 x 12 groups of 2
6902810	2.0 x 48 inner & middle
6902811	2.0 x 48 inner & outer
6902651	2.0 x 8 x 1 line
6903091	2.0 x 12 x 1 line
3112	2.0 x 24 x 2 line
6902671	2.0 x 48 x 1 line

6902775	2.0 x 72 x 1 line
6902582	2.0 x 12 x inside line
6902956	2.2 x 48 x 1 line
6902693	2.2 x 48 x 2 line
6902684	2.5 x 24 x 1 line
6902955	2.5 x 28 x 48 x 20 special
6902954	2.5 x 48 x 28 x 20 special



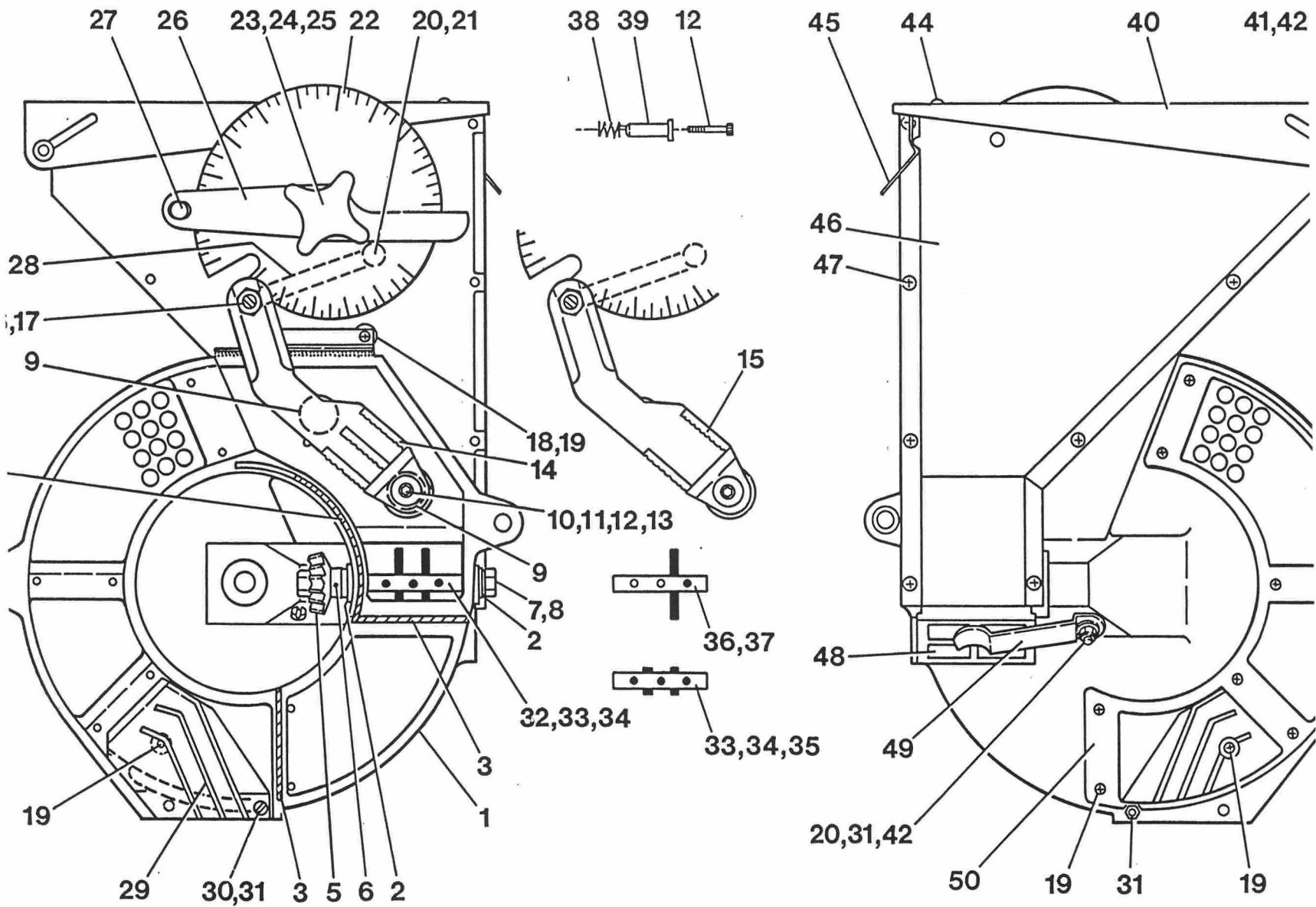
Item No:	Part No:	Description:
1	7702828	Body - Hopper Side c/w items 2,23,27
2	2002012	Oilite Bearing
3	6902687	Felt Seal
4	6902760	Felt Seal - Inner Ring
5	7702880	15T Pinion/Spindle c/w item 6
6	2214280	Tension Pin
7	2311089	M8 Flat Washer
* 8	6902665	Agitator Bolt - Short (L/H thread)
9	2701060	Singulator Spring
***10	6902822	Singulator Spindle (spherical ball type)
***11	6902823	Singulator Spindle End Cap
***12	2375009	M3 x 30 Socket Head Cap Screw
13	2303008	M10 Hexagon Nut
14	7703032	Singulator - multi-line (c/w items 16,17)
15	7703033	Singulator - single line (c/w items 16,17)
16	6902711	Eccentric Singulator Pin
17	2303007	M8 Hexagon Nut
18	7702899	Singulator Brush - Hopper Side
19	2357002	M3 x 6 Taptite Pozidriv Pan Head Screw
20	2332105	M5 x 16 Slotted Cheese Head Screw
21	2303005	M5 Hexagon Nut
22	2810204	Singulator Cam
23	6902496	Cam Stud
24	2311090	M10 Flat Washer (between Cam and Body)
25	6404015	Handwheel
26	6902498	Singulator Setting Arm
27	6409340	10 x 25 Dowel
28	2702040	Singulator Arm Spring
29	2810207	Seed Splitter
30	2332106	M5 x 20 Slotted Cheese Head Screw
31	2303090	M5 Nyloc Hexagon Nut
32	7702830	Agitator - Standard
*33	6902664	Agitator Spindle (White - L/H thread both ends)
*34	2830040	Agitator Finger (snap-in)
**35	7702861	Agitator - Large Pellet
36	7702860	Agitator - Raw Parsnip
37	2215260	4 x 36 Tension Pin (finger for raw parsnip)
38	2701062	Primary Singulator Spring
39	6902666	Primary Singulator

* For Metering Units fitted with black agitator spindles, order these parts.

** For Agitator Finger use item 34 and cut to length after fitting.

*** For Metering Units fitted with straight Singulator Spindles (no spherical ball), order these parts.

Brush Assy Hopper 7702899 (holder) 6409378

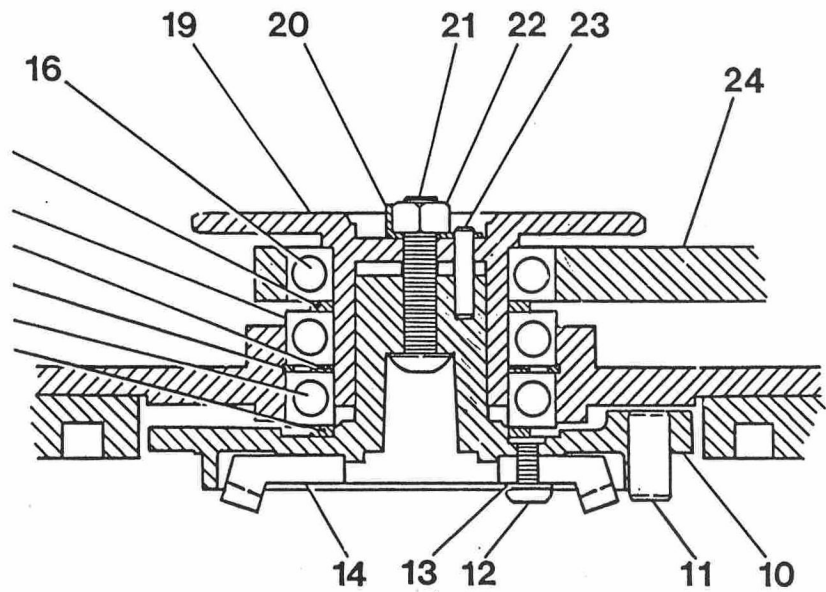


Item No:	Part No:	Description:
40	8002647	2 litre Hopper Lid Kit (c/w items 41-45)
	8002648	1 litre Hopper Lid Kit (c/w items 41-45)
41	6902506	2 litre Hopper Hinge Pin
	6902505	1 litre Hopper Hinge Pin
42	2311132	M5 Flat Washer - Large Diameter
43	2211366	M5 Starlock Washer - Capped
44	2212562	POP Rivet
45	2705009	Hopper Lid Clip
46	7402812	2 litre Hopper
	7402811	1 litre Hopper
47	2357022	M5 x 10 Taptite Pozidriv Pan Head Screw
48	2810206	Unit Plug
49	2705008	Plug Clip
50	6902586	Cover Plate

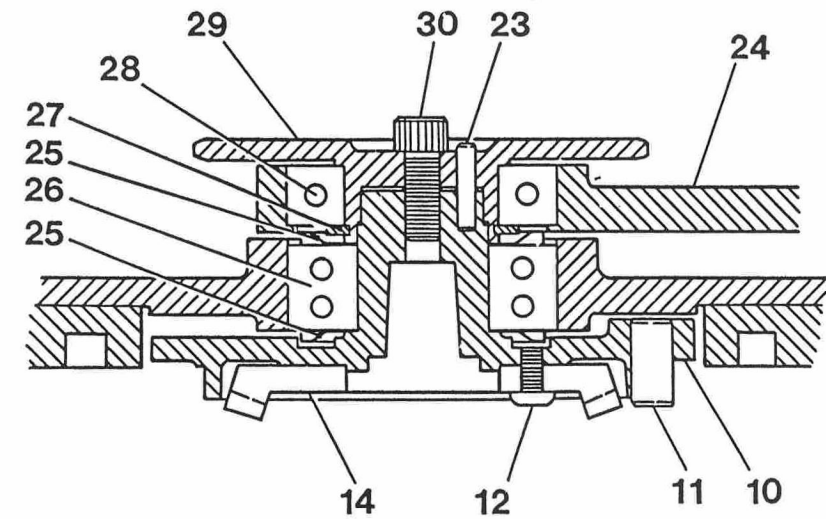
KITS

8010047	Seed Splitter Kit (items 19,29,30,31)
8002703	Primary Singulator Kit (items 12,38,39)
8002508	Hopper Kit - 2 litre
8002507	Hopper Kit - 1 litre

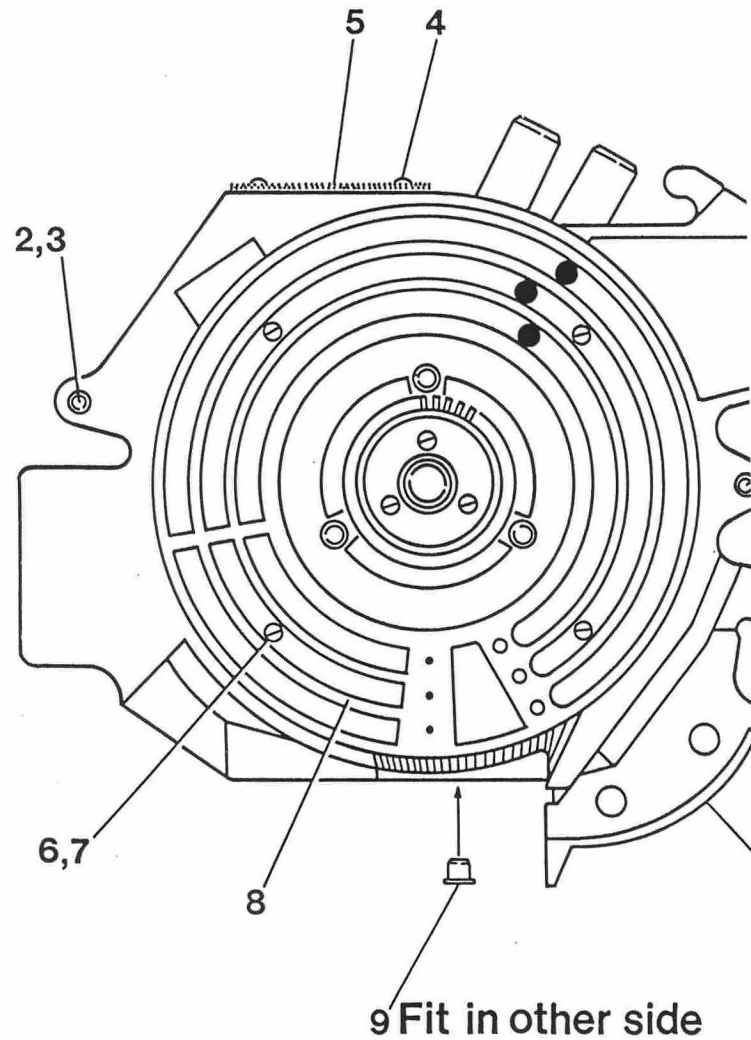
8003026 8Row 785 rotation sensor
 1358⁰⁰
 8003029 12Row
 1675⁰⁰



Style 2



Style 1



9 Fit in other side

Item No:	Part No:	Description:
1	7702827	Body - Drive Side
2	2309053	M8 x 50 Hexagon Head Screw
3	6902514	Unit Conical Nut
4	2357002	M3 x 6 Taptite Pozidriv Pan Head Screw
5	7702898	Singulator Brush - Drive Side
6	2332105	M5 x 16 Slotted Cheese Head Screw
7	2309090	M5 Nyloc Hexagon Nut
* 8	2810205	Air Gallery Block
** 9	6402038	Plastic Plug

* Air Gallery Blocks:- when used to replace white air gallery blocks in metering unit without felt seals.

To prevent leakage of small seeds (e.g. raw tomato, lettuce, carrots) it may be necessary to fit a steel shim (part number 6902805) between body and air gallery block.

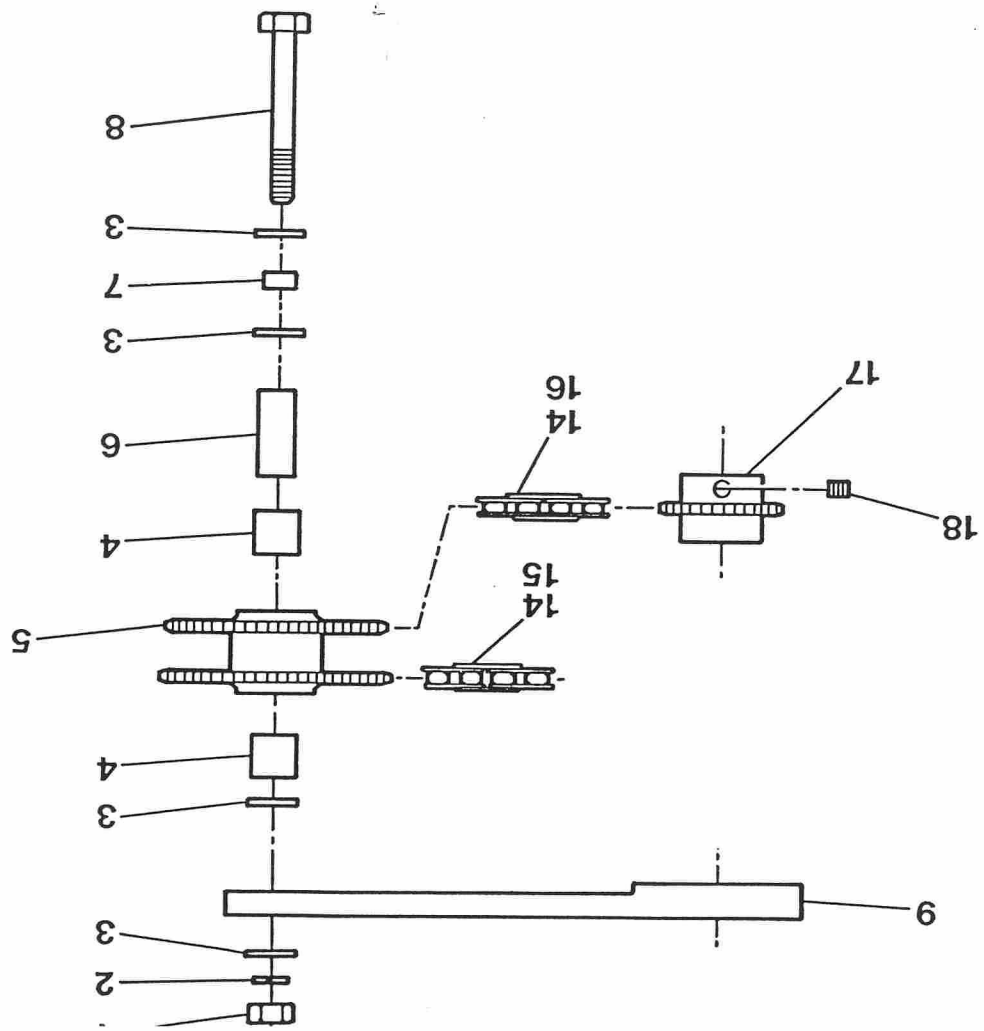
** For most seed types this plug should NOT be fitted. See SEED SETTING GUIDE and page 15 in Operators Manual.

BODY/TURNTABLE/KNEE JOINT ASSEMBLY - STYLE 2

10	7702829	Turntable c/w items 11,23
11	6409339	10 x 20 Dowel
12	2375022	M5 x 10 Taptite Pozidriv Pan Head Screw
13	2311132	M5 Flat Washer - Large Diameter
14	1502001	45T Crownwheel
15	6409402	Support Washer
16	1909029	Ball Bearing
17	2217215	Circlip
18	6409401	Support Shim (2 per unit)
19	7403153	24T Unit Sprocket
20	6902757	Unit Tab Washer
21	2377084	M8 x 35 Socket Button Head Screw
22	2303007	M8 Hexagon Nut
23	2215253	4 x 20 Tension Pin
24	6902858	Knee Joint Arm

BODY/TURNTABLE/KNEE JOIN ASSEMBLY - STYLE 1

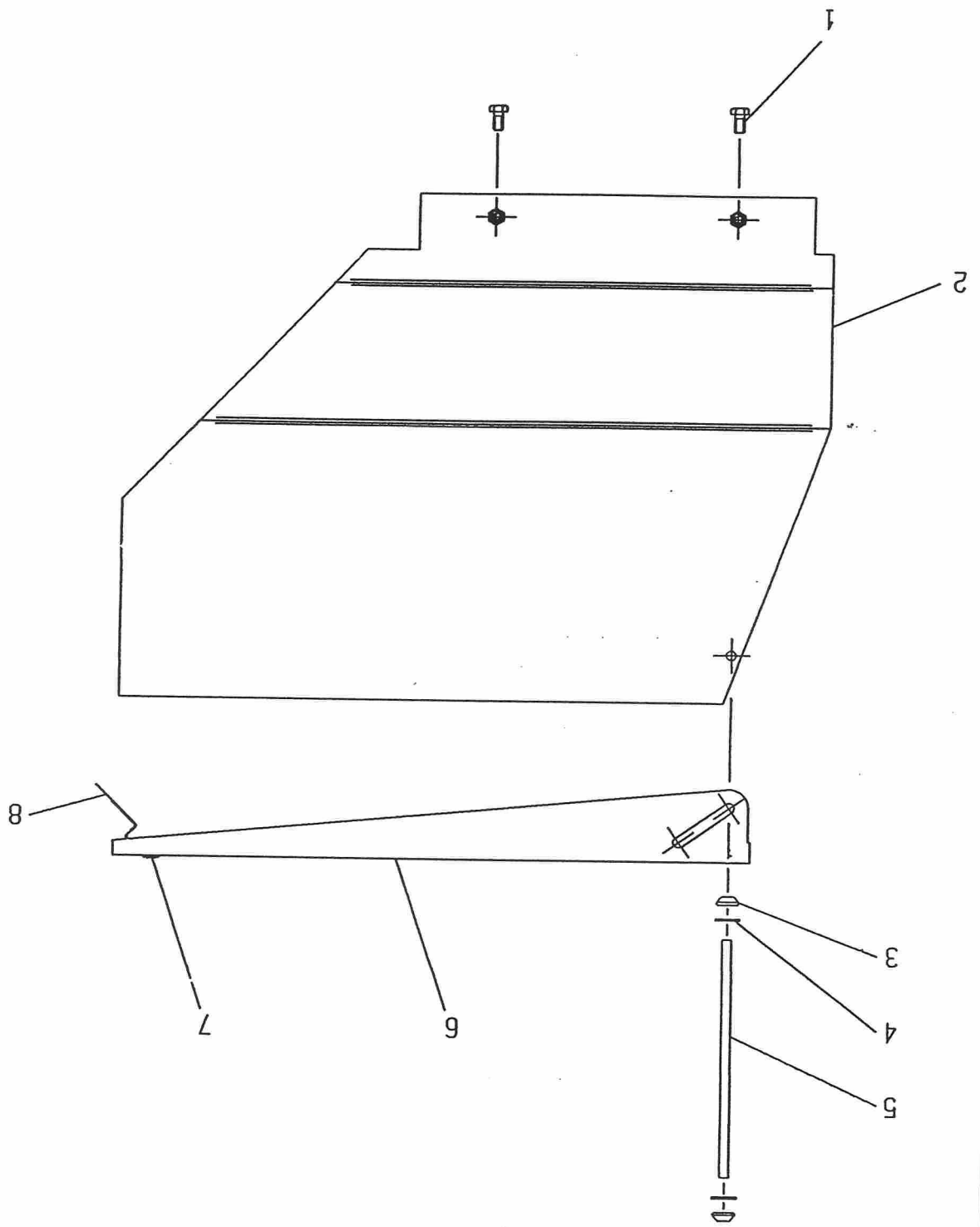
10	7702829	Turntable c/w items 11,23
11	6409339	10 x 20 Dowel
12	2357022	M5 x 10 Taptite Pozidriv Pan Head Screw
14	1502001	45T Crownwheel
24	7703030	Knee Joint Arm c/w item 28
25	4001021	Metal Seal (Nilos) (2 per unit)
26	1901407	Ball Bearing
27	2217010	Circlip
28	1901052	Ball Bearing
29	7402815	24T Unit Sprocket
30	2375081	M8 x 20 Socket Cap Screw



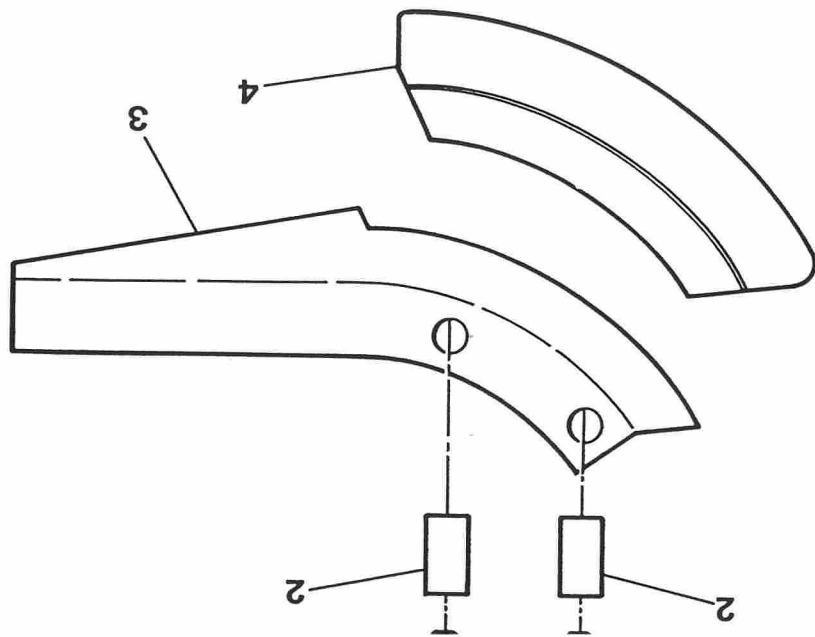
Item No:	Part No:	Description:
1	2303008	M10 Hexagon Nut
2	2311216	M10 Spring Washer
3	2311090	M10 Flat Washer
4	2001002	Oilite Bearing
5	7703107	23/24T Knee Joint Sprocket c/w item 4
6	6902804	Sprocket Spacer
7	7000022	Clamp Spacer
8	2306028	M10 x 120 Hexagon Head Bolt
9	6902858	Knee Joint Arm
14	1807018	Connecting Link
15	1807022	Chain - 55 pitches
16	1807045	Chain - 161 pitches (K.J. to Drive Shaft)
17	7700400	11T Shaft Sprocket c/w item 18
	7702695	16T Shaft Sprocket c/w item 18
18	2374066	M8 x 8 Socket Set Screw

ASSEMBLY

7703108 7120 Knee Joint Assembly



Item No:	Part No:	Description:
1	2309021	M5 x 10 Hexagon Head Screw
2	7702901	Extension for 2 litre Hopper - complete
	7702900	Extension for 1 litre Hopper - complete
3	2211366	M5 Starlock Washer - Capped
4	2311132	M5 Flat Washer - large diameter
5	6902269	Hinge Pin
6	8002646	Lid Kit (c/w items, 3,4,5,7,8)
7	2212562	POP Rivet
8	2705003	Lid Clip



Item No:

Part No:

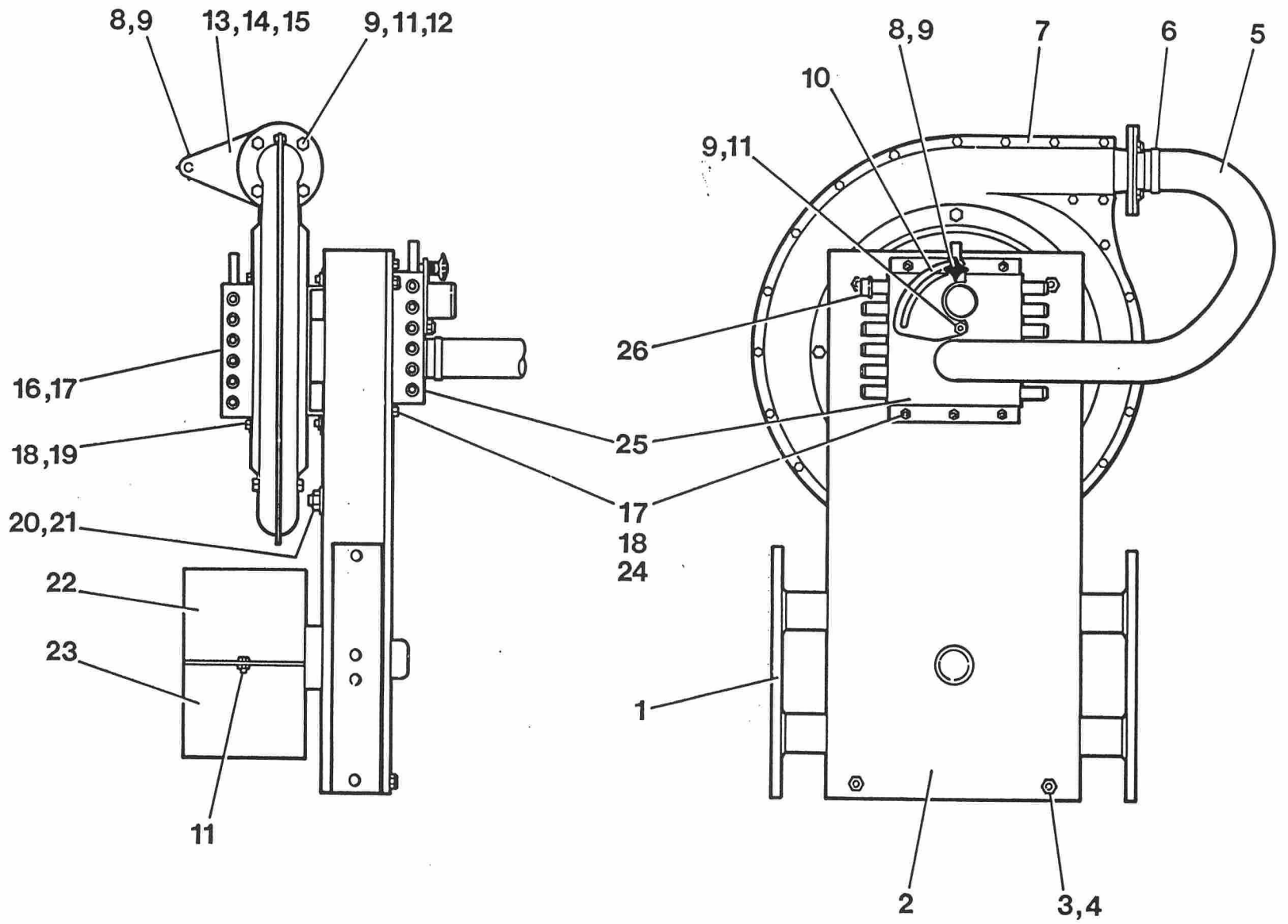
Description:

SINGLE LINE COULTER

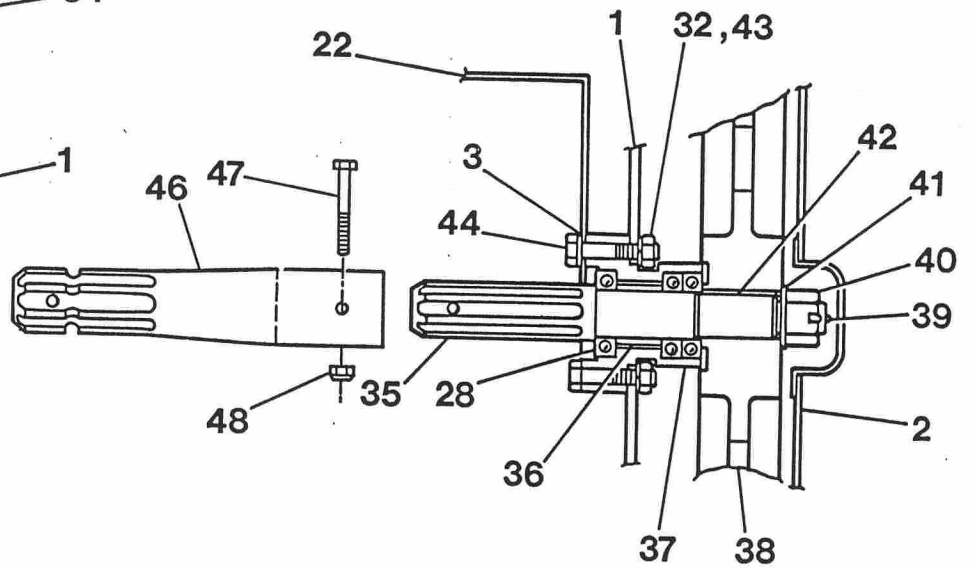
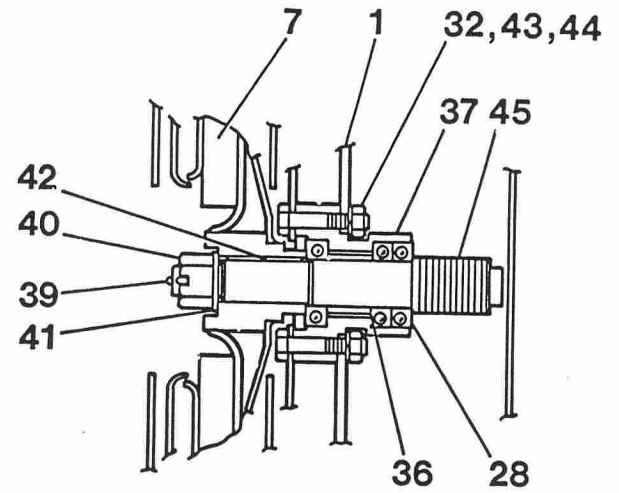
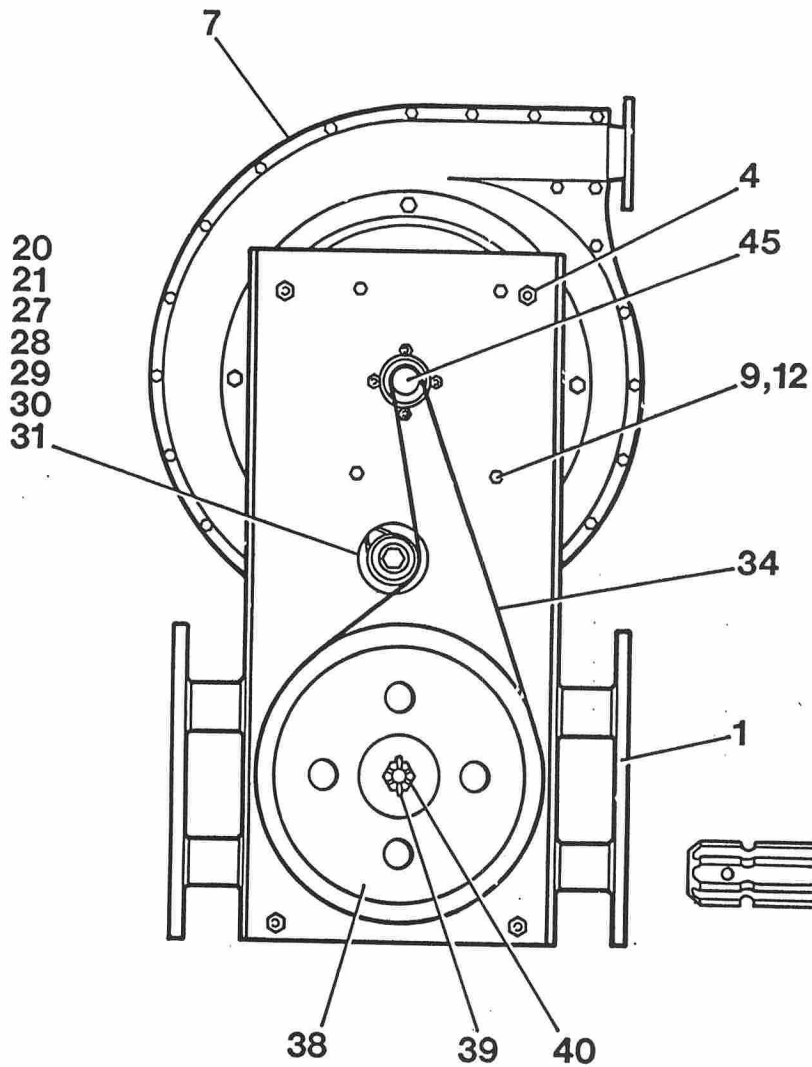
1	2377079	M8 x 12 Socket Button Head Screw
2	6902351	Coulter Screw Boss
3	3210177	Coulter Side - L/H
	3210176	Coulter Side - R/H
4	3000495	Coulter Insert - Cast Iron
	3240004	Coulter Insert - Ceramic - Standard
	3000674	Disc Drill Coulter Tip

KITS

	8002617	Coulter Kit - Cast Iron
	8002550	Coulter Kit - Ceramic - Standard
	8002812	Coulter Kit Disc Drill



Item No:	Part No:	Description:
1	7403020	Fan Drive Case - Toolbar
	7403021	Fan Drive Case - Yoke Bar
2	7403022	Drive Cover Plate
3	2311090	M10 Flat Washer
4	2303109	M10 Nyloc Hexagon Nut - thin
5	6902592	Pressure Feed Hose
6	2316012	Hose Clip
7	4801002	Fan
8	6404026	Handwheel
9	2311089	M8 Flat Washer
10	7402921	Pressure Baffle
11	2303092	M8 Nyloc Hexagon Nut
12	2309047	M8 x 20 Hexagon Head Screw
13	6902526	Vacuum Baffle Guide
14	7402821	Vacuum Baffle Plate
15	7403025	Pressure Outlet
16	7403023	Vacuum Manifold - 12 row
	7403189	Vacuum Manifold - 18 row
17	6402039	Plastic Bung (centre hole in manifold)
18	2311088	M6 Flat Washer
19	2303091	M6 Nyloc Hexagon Nut
20	6902522	Jockey Washer
21	2303095	M16 Nyloc Hexagon Nut
22	7403026	PTO Guard
23	6902663	PTO Guard Cover
24	2309033	M6 x 16 Hexagon Head Screw
25	7403024	Pressure Manifold - 12 row
	7403190	Pressure Manifold - 18 row
26	6402007	Plastic Cap
-	6902915	Sealing Strip for Fan Casing and Cover Plates



Item No:	Part No:	Description:
1	7403020	Fan Drive Case - Toolbar
	7403021	Fan Drive Case - Yoke Bar
2	7403022	Drive Cover Plate
3	2311090	M10 Flat Washer
4	2303109	M10 Nyloc Hexagon Nut - thin
7	4801002	Fan
9	2311089	M8 Flat Washer
12	2309047	M8 x 20 Hexagon Head Screw
20	6902522	Jockey Washer
21	2303095	M16 Nyloc Hexagon Head Bolt
27	2306135	M16 x 90 Hexagon Head Bolt
28	1901051	Ball Bearing
29	6902589	Jockey Roller
30	6902590	Bearing Spacer - Jockey
31	7403191	Eccentric Jockey
32	2303008	M10 Hexagon Nut
34	1323002	Drive Belt - 20 rib
35	6902587	Drive Shaft
36	6902872	Bearing Spacing - 29 long
37	6902871	Shaft Housing - Double Bearing
38	3000632	PTO Pulley
39	2215587	4 x 40 Split Pin
40	2303078	M20 Hexagon Slotted Nut
41	2311093	M20 Flat Washer
42	6413057	Shaft Key
43	2311216	M10 Spring Washer
44	2306068	M10 x 50 Hexagon Head Bolt
45	6902588	Fan Impeller Shaft

ASSEMBLIES

7702922	Fan & Drive - Toolbar Drills
7702923	Fan & Drive - Yoke Bar Drills

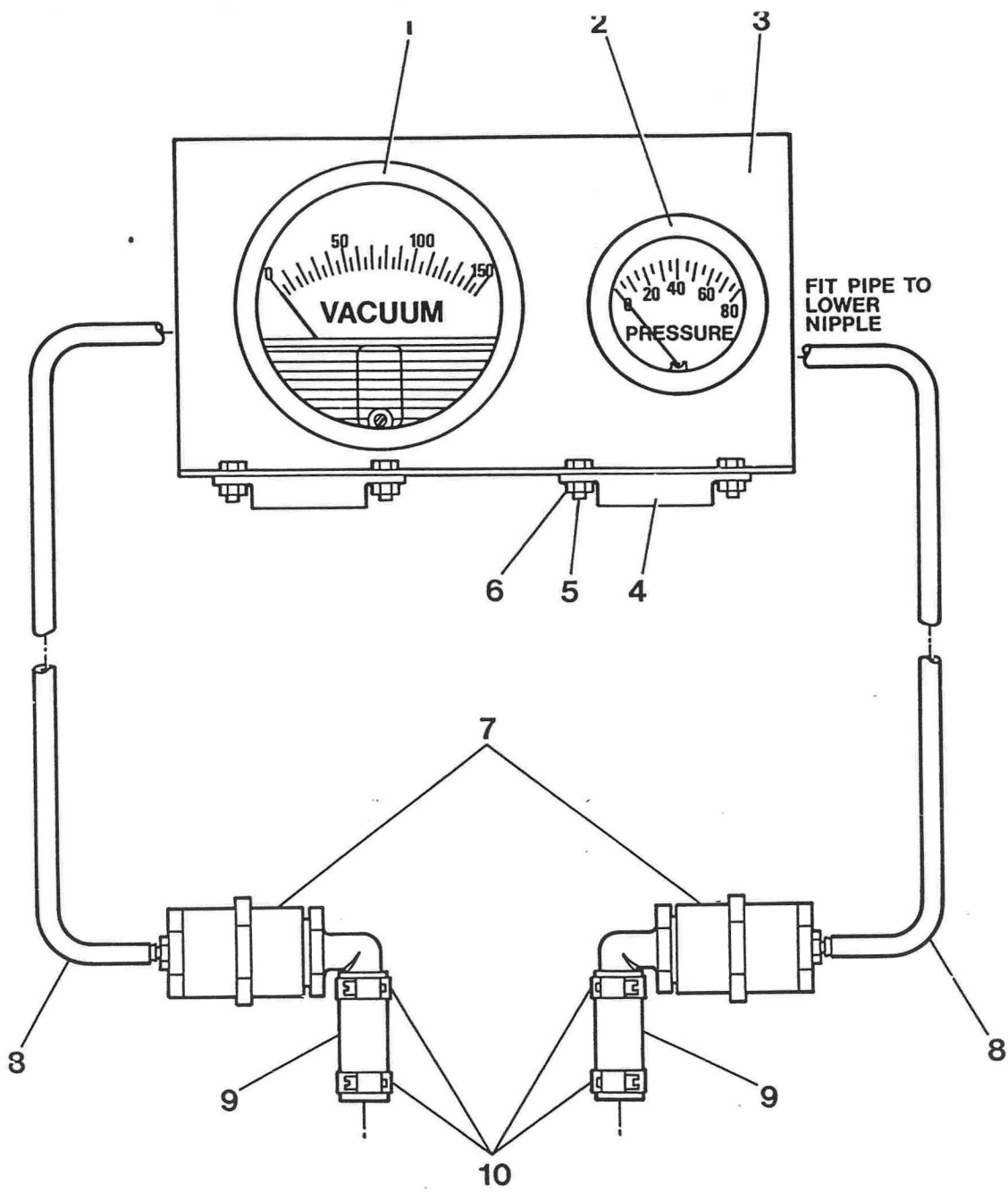
NOT ILLUSTRATED

4300016	Unit Hose - Black (per metre)
4300018	Unit Hose - Grey (per metre)
5215046	Cable Tie

For Yoke Bar Drills: *

	2303010	M16 Hexagon Nut (for attaching to yoke bar)
46	6409358	PTO Extension Adaptor
47	2303092	M8 Nyloc Hexagon Nut
48	2306042	M8 x 60 Hexagon Head Bolt

* Note: Item 23 not fitted
Item 22 fitted on underside

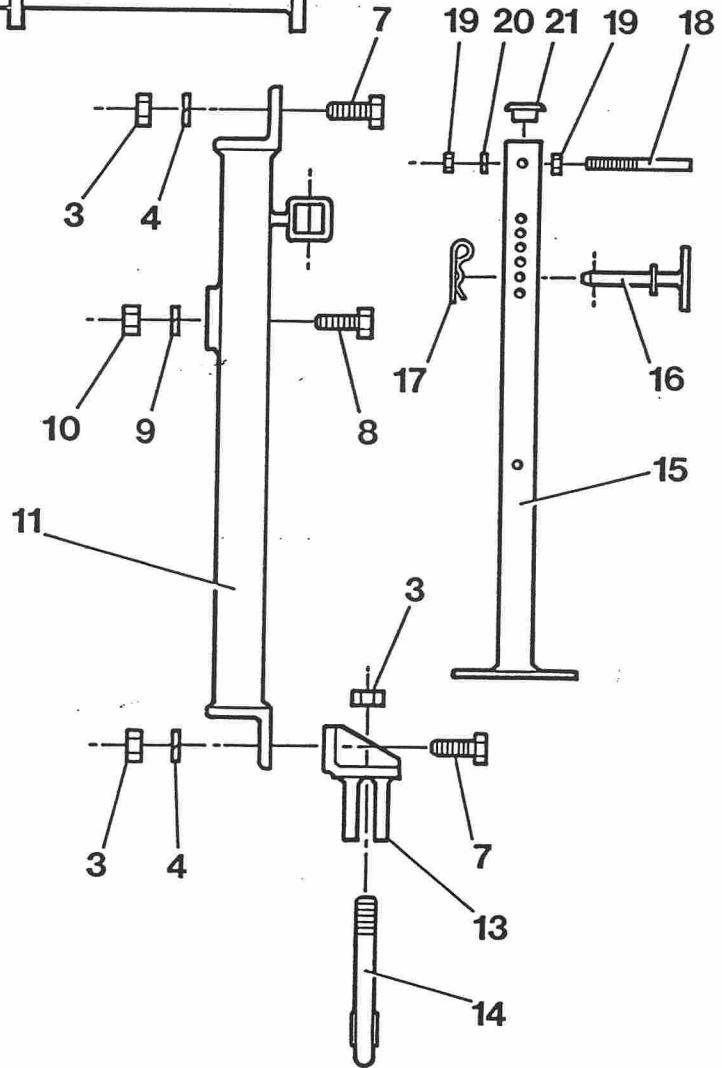
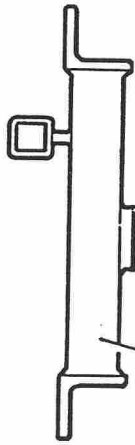
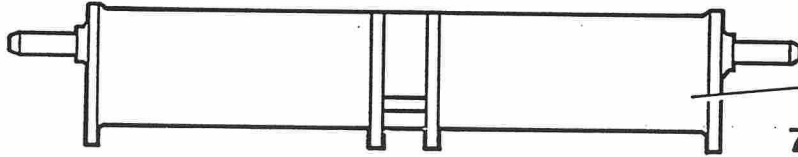
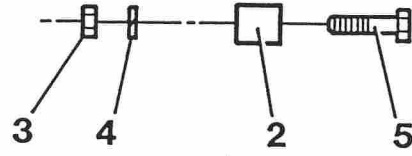
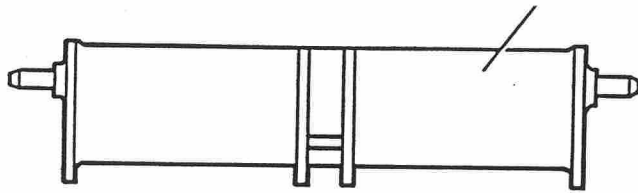


Item No:	Part No:	Description:
1	4803005 4803006 2326033	Vacuum Gauge 150mb 12-167814-01 Gauge Cover 6 - 32 x 5/16 Slotted Cheese Head Screw (Fixing Screws - 3 off required)
2	4803007 4803008 2326006	Pressure Gauge Gauge Cover 4 - 40 x 5/8 Slotted Cheese Head Screw (Fixing Screws - 2 off required)
3	6409399	Gauge Bracket
4	6409400	Magnetic Foot
5	2309022	M5 x 12 Hexagon Head Screw
6	2303005	M5 Hexagon Nut
7	4802040	Pipe Connector
8	4300024	Gauge Pipe - 4.6m Long
9	4300025	Manifold Spigot Pipe
10	2316003	Hose Clip

KIT

4803004 Vacuum/Pressure Gauge Kit
(items 1-10)

*Dwyer Instruments
U.S. 12 1/2 212
Michigan City, Ind 46360
219-879-8000*



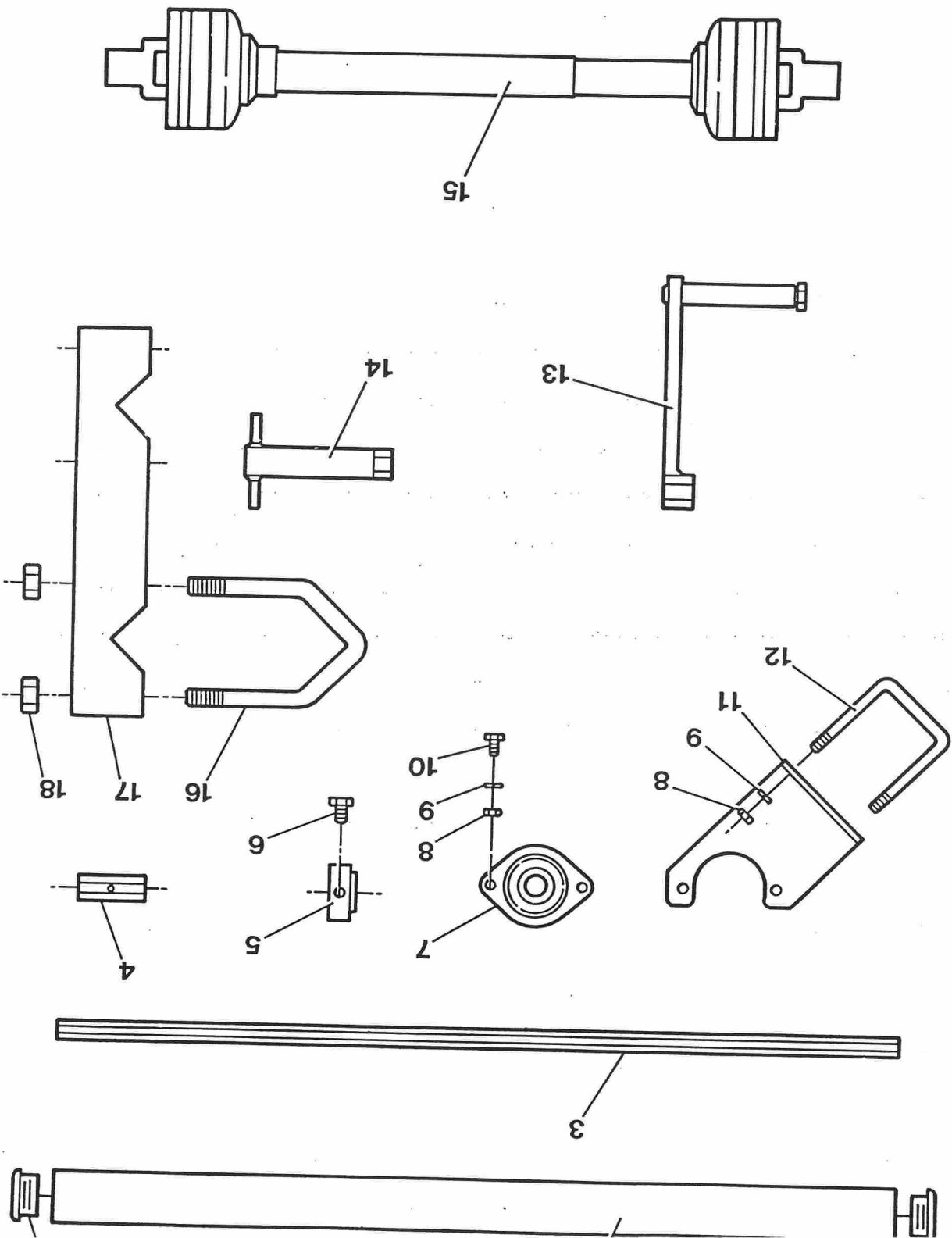
Item No:	Part No:	Description:
1	7403040	Cat.1 Headstock
2	6902672	Cat.1 Headstock Spacer
3	2303011	M20 Hexagon Nut
4	2311219	M20 Spring Washer
5	2306164	M20 x 90 Hexagon Head Bolt
6	7403031	Cat.2 Headstock
7	2309108	M20 x 50 Hexagon Head Screw
8	2306128	M16 x 50 Hexagon Head Bolt
9	2311218	M16 Spring Washer
10	2303010	M16 Hexagon Nut
11	7403178	Fan Bracket - long - L/H
	7403179	Fan Bracket - long - R/H
*12	7403180	Fan Bracket - short - L/H
	7403181	Fan Bracket - short - R/H
13	7403028	Toolbar Bracket
14	8002134	7403029 U-Bolt c/w item 3
15	7402141	Parking Stand
16	7402238	Support Pin
17	2316033	R-Clip
18	6902100	Stand Handle
19	2303009	M12 Hexagon Nut
20	2311217	M12 Spring Washer
21	6402018	Plastic Plug

KITS

8002708	Cat.1 Headstock Fitting Kit (items 2-5)
8002676	Fan Bracket (long) Kit (items 7-11, 13-21)
*8002707	Fan Bracket (short) Kit (items 7-10, 12-21)

* Lower PTO position cannot be obtained if Clod Deflectors are fitted.

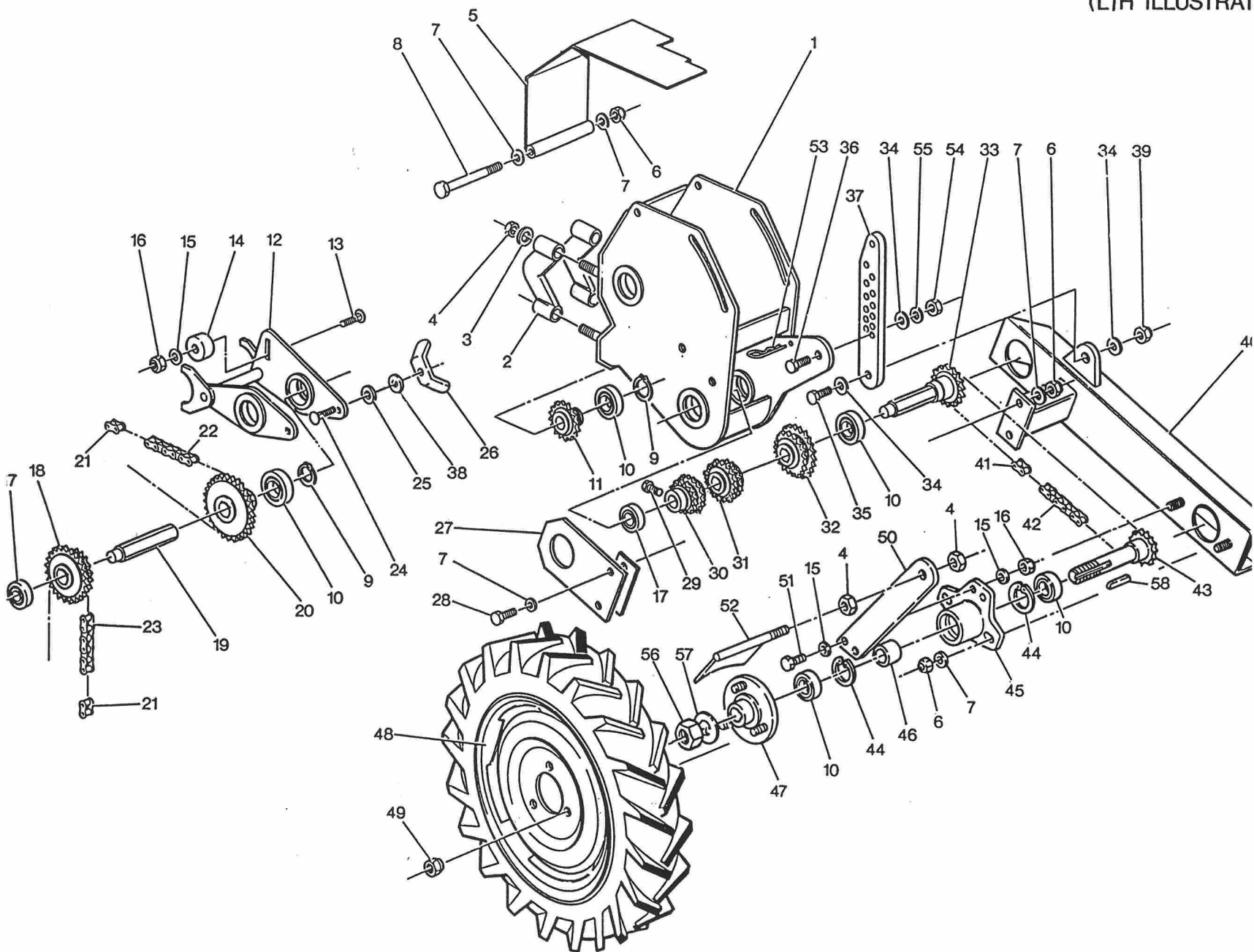
*8002899 4x4 Brackets
8003143*



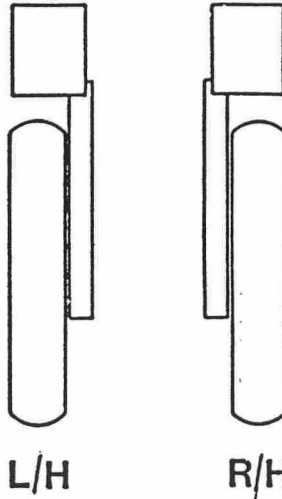
Item No:	Part No:	Description:
1	6402015	Plastic Plug
2	7701112	2.30M Toolbar
	7701113	2.90M Toolbar
	7402903	1.65M Toolbar)
	7402984	2.00M Toolbar)
	7403050	2.15M Toolbar) Double
	7402901	2.30M Toolbar) Box
	7402967	2.90M Toolbar) Type
	7402991	3.30M Toolbar)
	7402906	3.80M Toolbar)
	7402907	4.27M Toolbar)
3	6902175	1.65M Shaft
	6902469	2.00M Shaft
	6902322	2.15M Shaft
	7000067	2.30M Shaft
	7000068	2.90M Shaft
	6902103	3.30M Shaft
	7000070	3.80M Shaft
4	7700089	Muff Coupling (to join two shafts)
5	6902352	Locking Collar
6	2309061	M10 x 20 Hexagon Head Screw
7	8010027	1905025 Ball Bearing c/w items 8-10
8	2303007	M8 Hexagon Nut
9	2311215	M8 Spring Washer
10	2309048	M8 x 25 Hexagon Head Screw
11	7400070	Bearing Bracket
12	8002126	7001098 U-Bolt c/w items 8, 9
13	7403037	Calibration Handle
14	7402922	Box Spanner - 17mm
15	6416032	PT0 Shaft - heavy duty c/w overrun clutch
16	8002125	7001093 U-Bolt c/w item 18
17	7403132	Joining Member - 200 centres
18	2303010	M16 Hexagon Nut

KITS

7700996	Bearing Bracket (items 7-12)
8002781	Joining Member (items 16, 17)

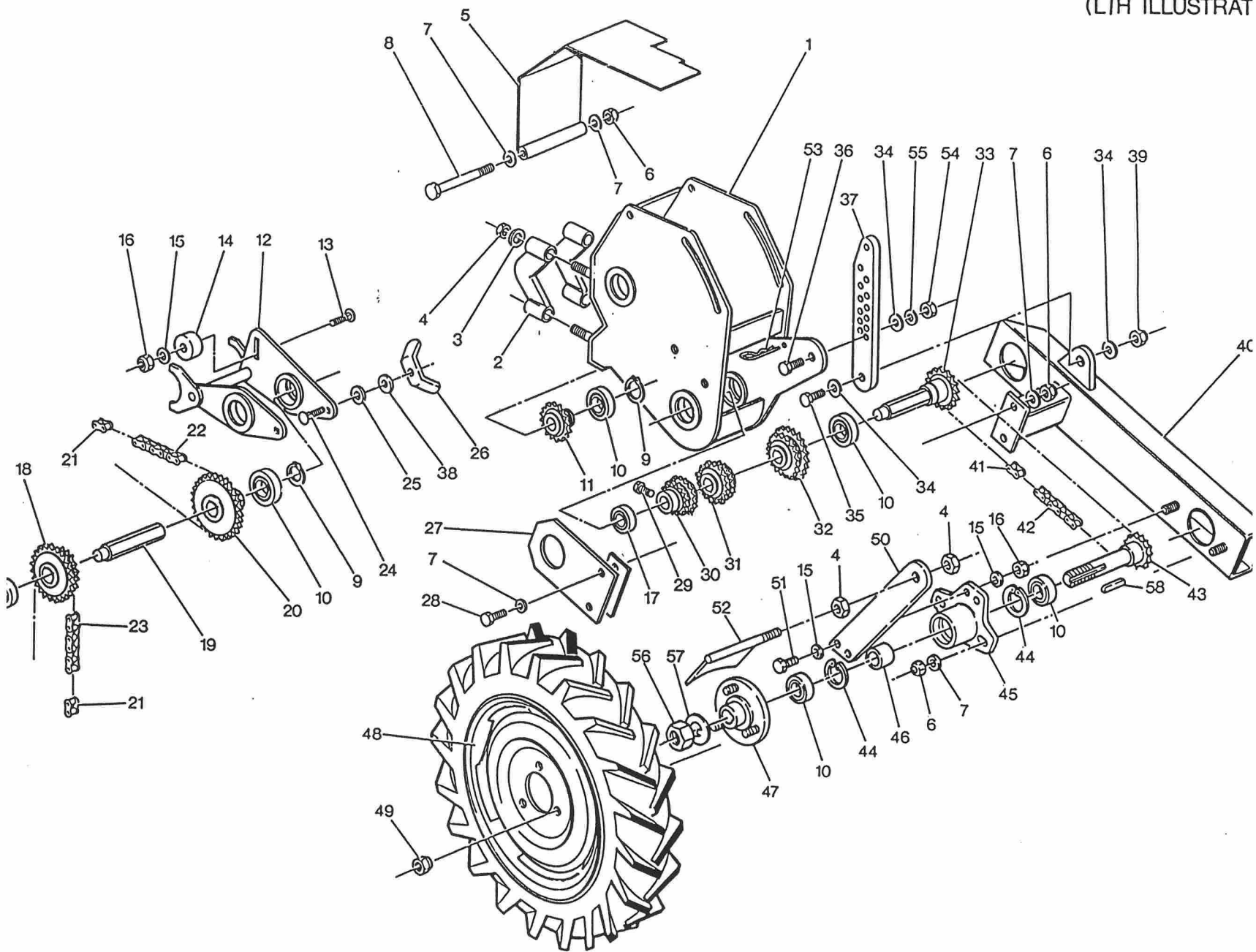


WHEEL TYPES



Note: L/H and R/H wheels may be fitted on either side of drill outfits.

Item No:	Part No:	Description:
1	7402719	Gearbox Body L/H
	7402720	Gearbox Body R/H
2	7402662	Clamp Half
3	2311092	M16 Flat Washer
4	2303010	M16 Hexagon Nut
5	7402445	Gearbox Lid L/H
	7402860	Gearbox Lid R/H
6	2303109	M10 Nyloc Hexagon Nut - thin
7	2311090	M10 Flat Washer
8	2306082	M10 x 160 Hexagon Head Bolt
9	2217009	Circlip
10	1901051	Ball Bearing
11	7402808	21T Driven Sprocket
	6902326	Shaft Support (non driving wheels only)
12	7402687	Adjuster Frame
13	2306466	M8 x 40 Coach Bolt
14	6902235	Output Drive Jockey
15	2311089	M8 Flat Washer
16	2303092	M8 Nyloc Hexagon Nut
17	1901049	Ball Bearing
18	7703060	17/24T Sliding Sprocket
	1707090	13/30T Sliding Sprocket
	1707057	11T Sliding Sprocket
19	6902234	Output Shaft
20	7402807	19T Output Sprocket
21	1807018	Connecting Link (for items 22 & 23)
22	1807036	Chain - 42 pitches

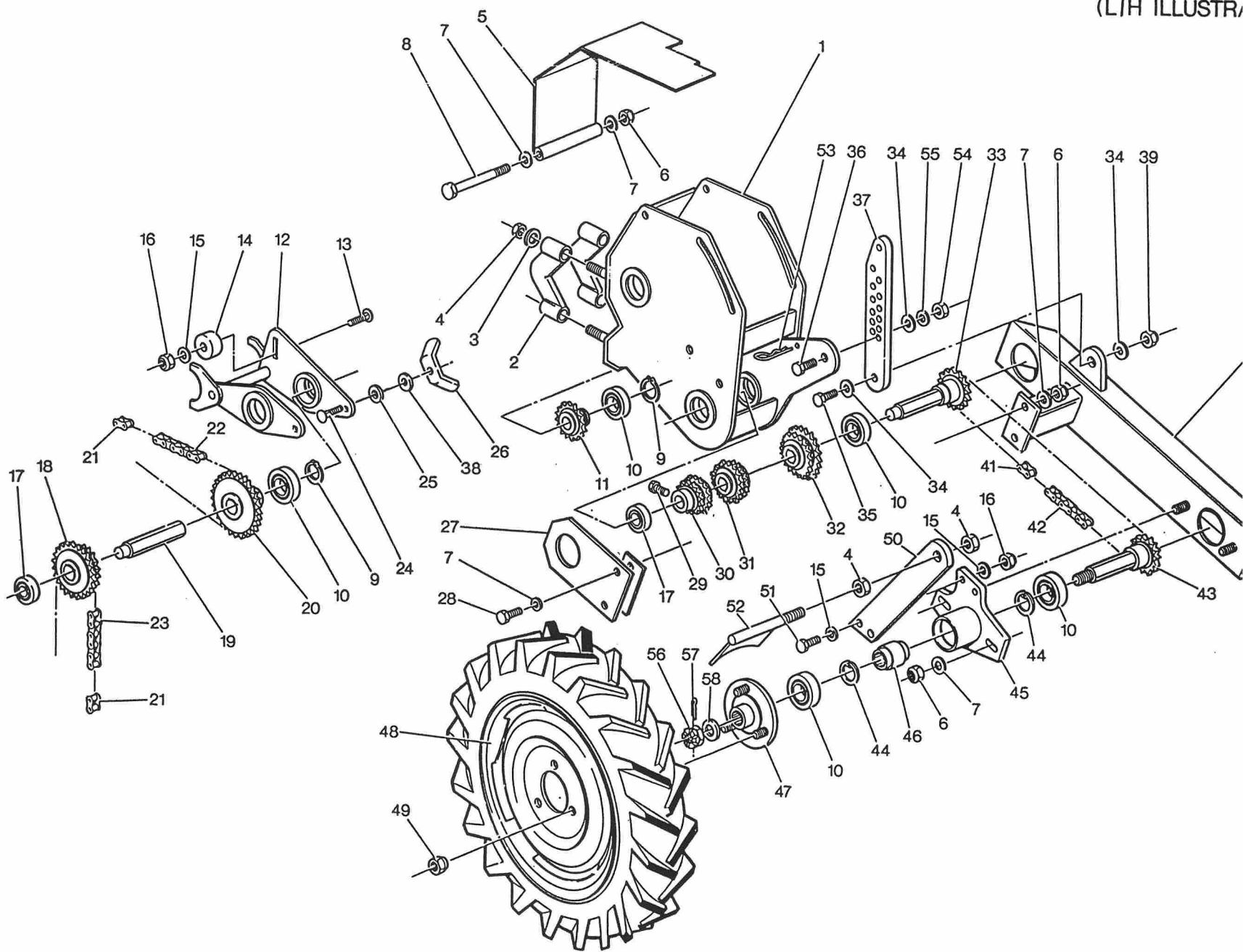


4.00-16 TYRE - ROUND WHEEL SPINDLE

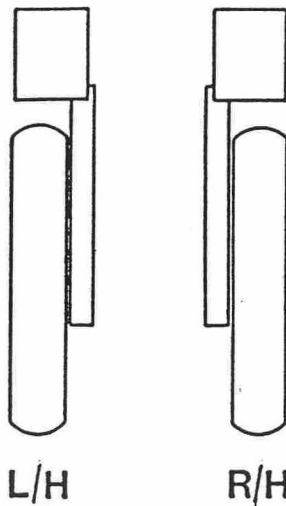
Item No:	Part No:	Description:
24	2306488	M10 x 30 Coach Bolt
25	6902236	Quadrant Washer
26	6902742	Adjuster Frame Nut
27	6902229	Arm Pivot Plate
	6902325	Plate Packing (for adjustment)
28	2309063	M10 x 30 Hexagon Head Screw
29	2309061	M10 x 20 Hexagon Head Screw
30	1707083	16/17T Sprocket
31	1707084	18/19T Sprocket
32	1707085	20/21T Sprocket
33	7402467	16T Input Shaft
34	2311091	M12 Flat Washer
35	2306097	M12 x 45 Hexagon Head Bolt
36	2306097	M12 x 45 Hexagon Head Bolt
37	6902230	Wheel Strut
38	2311370	M10 Flat Washer - Extra Large
39	2303094	M12 Nyloc Hexagon Nut
40	7402434	Wheel Arm
41	1808065	Connecting Link
42	1808066	Chain - 87 pitches
43	7403158	16T Wheel Spindle
44	2217208	Circlip
45	3000657	Landwheel Hub
46	6902673	Bearing Spacer - landwheel
47	7703048	Wheel Centre c/w studs
	5700339	Wheel Stud
48	5700336	Landwheel L/H (c/w tyre & tube)
	5700337	Landwheel R/H (c/w tyre & tube)
	5700333	Wheel
	5700334	Tyre
	5700335	Tube
49	5700340	Wheel Nut
50	6902239	Scraper Arm
51	2309049	M8 x 30 Hexagon Head Screw
52	7402446	Landwheel Scraper
53	2316033	R-clip
54	2303009	M12 Hexagon Nut
55	2311217	M12 Spring Washer
56	2303013	M30 Hexagon Nut
57	6902759	Tab Washer - Landwheel
58	6413059	Key - Wheel Centre

ASSEMBLIES

7703053	Single Landwheel L/H) Drill and
7703054	Single Landwheel R/H) Granyl Drive
7703049	Single Landwheel L/H) Granyl Drive
7703050	Single Landwheel R/H) Granyl Drive

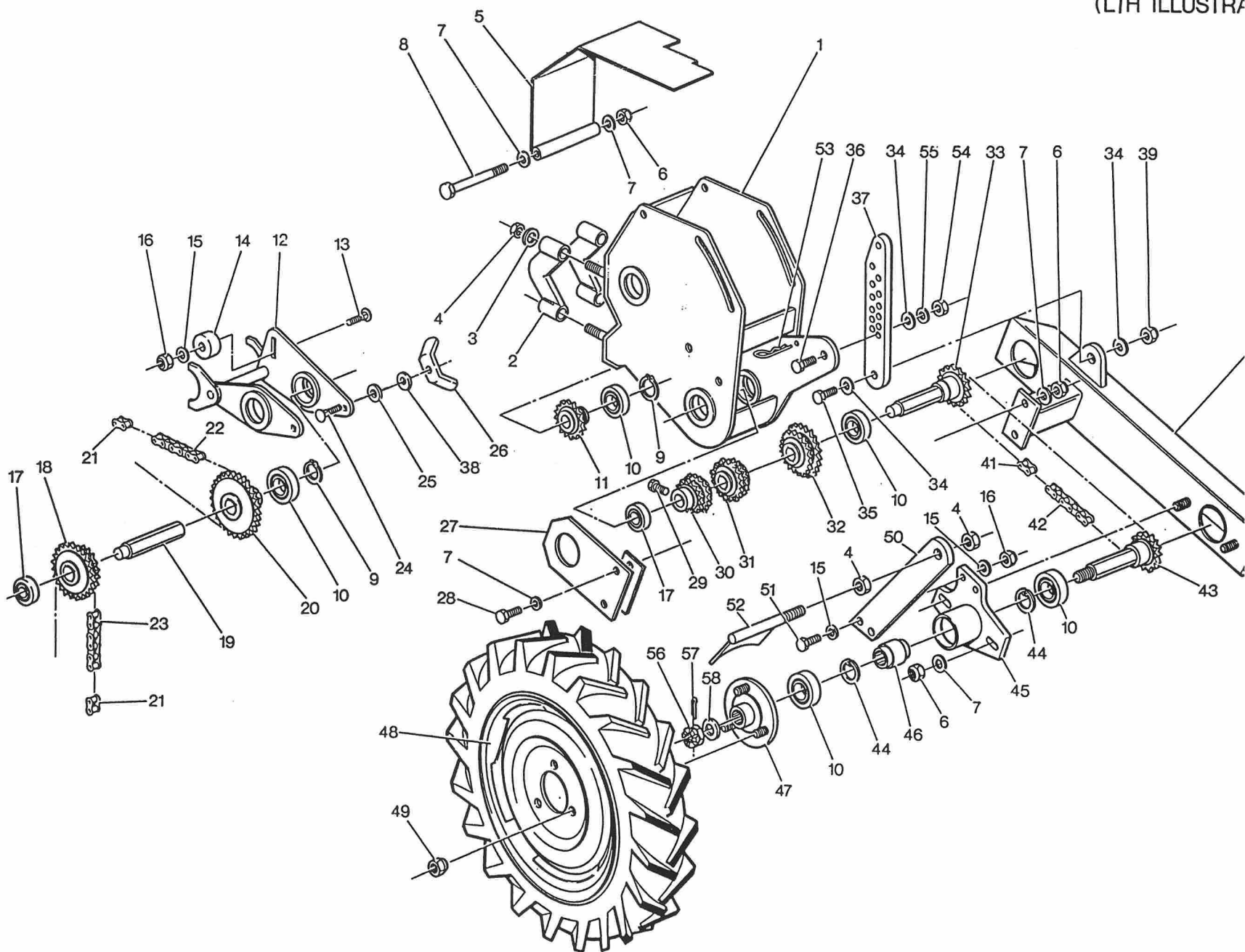


WHEEL TYPES



Note: L/H and R/H wheels may be fitted on either side of drill outfits.

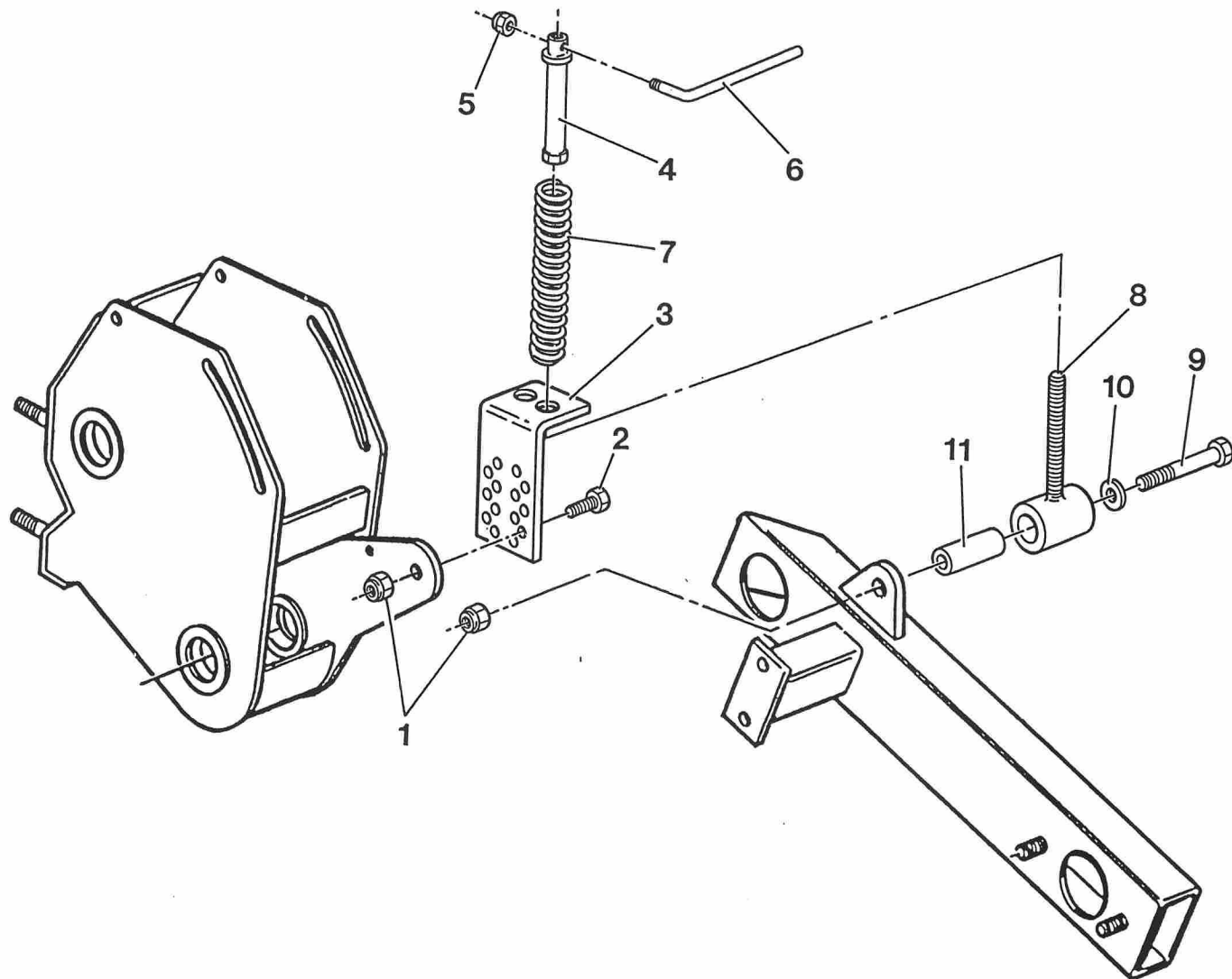
Item No:	Part No:	Description:
1	7403119	Gearbox Body L/H
	7403120	Gearbox Body R/H
2	6902964	Clasp Plate
3	2311092	M16 Flat Washer
4	2303010	M16 Hexagon Nut
5	7402445	Gearbox Lid L/H
	7402860	Gearbox Lid R/H
6	2303109	M10 Nyloc Hexagon Nut - thin
7	2311090	M10 Flat Washer
8	2306082	M10 x 160 Hexagon Head Bolt
9	2217009	Circlip
10	1901051	Ball Bearing
11	7402808	21T Driven Sprocket
	6902326	Shaft Support (non driving wheels only)
12	7402687	Adjuster Frame
13	2306466	M8 x 40 Coach Bolt
14	6902235	Output Drive Jockey
15	2311089	M8 Flat Washer
16	2303092	M8 Nyloc Hexagon Nut
17	1901049	Ball Bearing
18	7703060	17/24T Sliding Sprocket
	1707090	13/30T Sliding Sprocket
	1707057	11T Sliding Sprocket
19	6902234	Output Shaft
20	7402807	19T Output Sprocket
21	1807018	Connecting Link (for items 22 & 23)
22	1807036	Chain - 42 pitches
23	1807036	Chain - 52 pitches



Item No:	Part No:	Description:
24	2306488	M10 x 30 Coach Bolt
25	6902236	Quadrant Washer
26	6902742	Adjuster Frame Nut
27	6902229	Arm Pivot Plate
	6902325	Plate Packing (for adjustment)
28	2309063	M10 x 30 Hexagon Head Screw
29	2309061	M10 x 20 Hexagon Head Screw
30	1707083	16/17T Sprocket
31	1707084	18/19T Sprocket
32	1707085	20/21T Sprocket
33	7402467	16T Input Shaft
34	2311091	M12 Flat Washer
35	2306097	M12 x 45 Hexagon Head Bolt
36	2306097	M12 x 45 Hexagon Head Bolt
37	6902230	Wheel Strut
38	2311370	M10 Flat Washer - Extra Large
39	2303094	M12 Nyloc Hexagon Nut
40	7402434	Wheel Arm
41	1808065	Connecting Link
42	1808066	Chain - 87 pitches
43	7403158	16T Wheel Spindle
44	2217208	Circlip
45	3000657	Landwheel Hub
46	6902673	Bearing Spacer - landwheel
47	7703048	Wheel Centre c/w studs
	5700339	Wheel Stud
48	5700336	Landwheel L/H (c/w tyre & tube)
	5700337	Landwheel R/H (c/w tyre & tube)
	5700333	Wheel
	5700334	Tyre
	5700335	Tube
49	5700340	Wheel Nut
50	6902239	Scraper Arm
51	2309049	M8 x 30 Hexagon Head Screw
52	7402446	Landwheel Scraper
53	2316033	R-clip
54	2303009	M12 Hexagon Nut
55	2311217	M12 Spring Washer
56	2303013	M30 Hexagon Nut
57	6902759	Tab Washer - Landwheel
58	6413059	Key - Wheel Centre

ASSEMBLIES

7703194	Single Landwheel L/H) Drill and
7703195	Single Landwheel R/H) Granyl Drive
7703010	Single Landwheel L/H)
7703011	Single Landwheel R/H) Granyl Drive



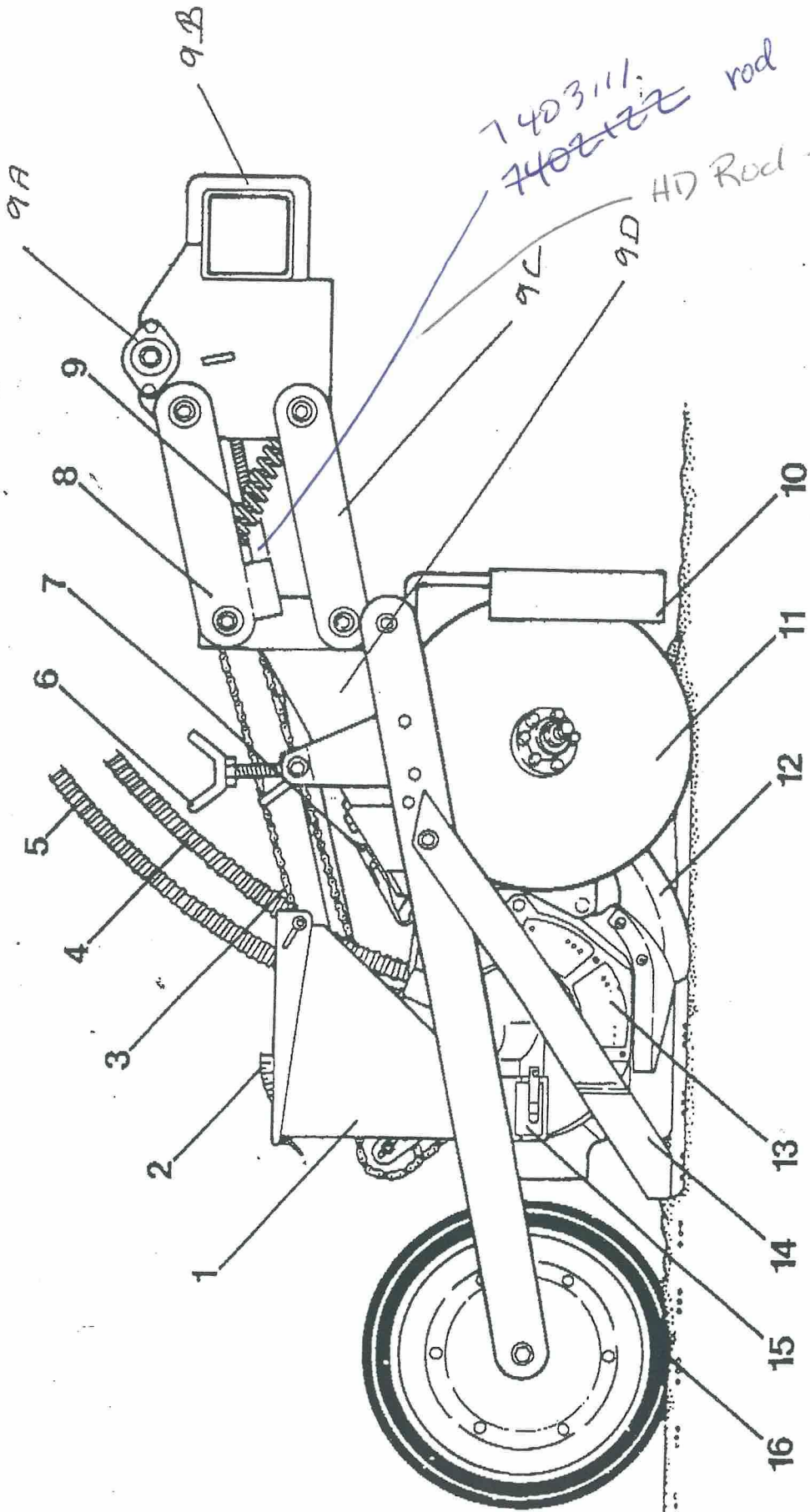
Item No:	Part No:	Description:
1	2303094	M12 Nyloc Hexagon Nut
2	2306097	M12 x 45 Hexagon Head Bolt
3	6902689	Spring Loading Arm
4	7402838	Spring Locator
5	2303044	M10 Hexagon Locknut
6	6902536	Spring Tensioner Handle
7	2701056	Compression Spring
8	7402837	Pivot Arm/Spring Adjuster
9	2306105	M12 x 90 Hexagon Head Bolt
10	2311091	M12 Flat Washer
11	6902537	Pivot Bush

KIT

8002538 MLD Spring Loading Kit

(Note: Will fit L/H and R/H Master Landwheels)





7403111
~~7402122~~ rod

HD Rod 8002833

23/24T Sph
 7703107

8002812K

Stanhay Singulaire 7100 Disc Chassis

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
3	1807018	Connector
	1807041	129P Chain
4	4300016	Hose Black - per metre
5	4300018	Hose Grey - per metre
6	7703005	Depth Screw Assy
	6401018	Greaser
	7703007	Trunion Carrier Assy
	1901046	Bearing
	6902780	Trunion Bolt
	2309078	Set Screw
	2303092	Nyloc Nut
7	2387013	Toggle Clip
	2309021	Set Screw
8	7703001	Upper Parallel Link Assy
	1901101	Bearing
9	2702027	Tension Spring
9A	1905025	Bushing
	2303007	Hex. Nut
	2311215	Spring Washer
	2309047	Set Screw
9B	6902730	'U' Bolt
	2303010	Nut
9C	7703002	Lower Parallel Link Assy
	1901101	Bearing
9D	7703000	Unit Bracket Assy
	1901046	Bearing
	6401006	Greaser
	2303128	Philidas Nut
	2309079	Set Screw
	6902729	Arm Pivot Spindle
10	6902720	Disc Guard
	2303092	Nyloc Nut
	2311134	Plain Washer



<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>	
11	8002760	Disc Kit	
	7703073	Disc & Nut Asy	
	2303091	Nyloc Nut	
	2309033	Set Screw	
	6000116	Disc	
	7703008	Disc Hub Assy	
	1901103	Bearing	
	2217201	Circlip	
	7403170	Disc Bracket	
	6902719	Inside Disc Scraper	
	6902718	Disc Scraper L/H	
	6902717	Disc Scraper R/H	
	2309061	Set Screw	
	2303095	Nyloc Nut	
12	8002812	Coulter Kit	
	2377079	Socket Button Head Screw	
	3000674	Coulter Tip	
	3210176	Coulter Side R/H	
	3210177	Coulter Side L/H	
	6902351	Coulter Screw Boss	
13	8002761	Arm Cover Kit R/H	
	8002762	Arm Cover Kit L/H	
	2303127	Philidas Nut	
	2309063	Set Screw	
	6902734	Coverer R/H	
	6902735	Coverer L/H	
16	<u>Zero Pressure Wheel</u>		
	8002765	Zero Pressure Wheel Kit	1
	2303110	Nyloc Nut	
	2311113	Washer	
	7403113	Rear Wheel Bolt	
16	<u>Stainless Steel Wheel</u>		
	8002766	Wheel Cleaner Kit	1
	7703009	Wheel Assy	7
	6902622	Wheel Cleaner	
	2303091	Nyloc Nut	
	2303110	Nyloc Nut	
	2311113	Washer	
	7403113	Rear Wheel Bolt	M12 x 280 x 1.75
	1901104	Bearing	
8002767	Stainless Steel Wheel Kit	9.	

*Has only
6902718*