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4.0 - TECHNICAL DATA

The F 300 L potato transplanter is designed for transplanting whole or cut potatoes or tubers in rows of varying distance and depth.











F 300 L	 1	 2	 3	 4
 cm.	135	135	135	135
 cm.	100	150	200	300
 cm.	115	115	115	115
 Kg	150	215	300	400
 HP	20	25	30	40
 Kw	14	18	22	29

FIG. 1

5.0 - WARNING AND DANGER SIGNS

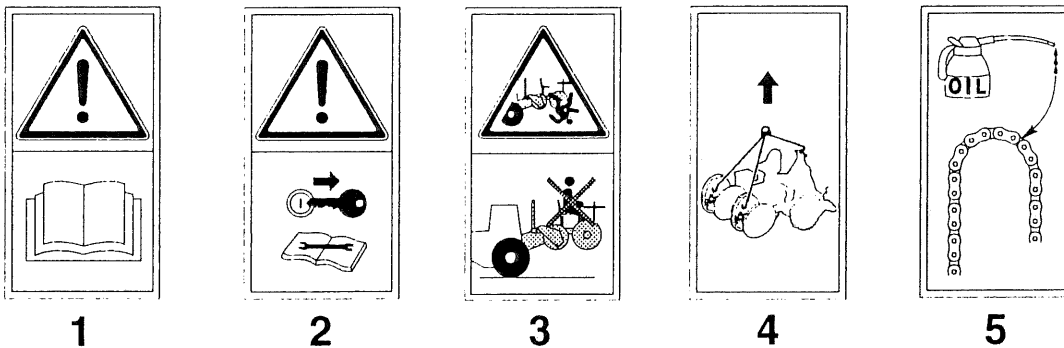


FIG. 2

Warning signs:

- 1 - Before starting work, read the instruction booklet carefully.
- 2 - Before carrying out any maintenance work, stop the machine and consult the use and maintenance manual.

Danger signs:

- 3 - Do not travel from one work area to another or on the road with the lift unit raised and operators on board.

Indication signs:

- 4 - Fixing points for lifting
- 5 - Points to be oiled

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6.0 - LIFTING



6.1 - Check that the lifting gear, hooks, ropes, chains, etc., **are of sufficient capacity for the task** (see weight indicated on machine data plate and in the weights and measures table).

6.2 - Fix hooks, ropes, chains, etc., in the three positions shown in fig. 3.

6.3 - Operate the lifting system slowly and before lifting definitively, make certain that no deviation occurs and that there are no members of the public in the work area.

6.4 - **Keep at a safe distance** and do not for any reason enter areas subject to the risk of accidental falling of the machine.

7.0 - TRANSPORT

Check that the vehicle to be used is suitable in terms of capacity, size and any other respect stipulated in the highway code.

Position the machine in such a way that it does not protrude beyond the profile of the vehicle, and fix it adequately with ropes or other means so as to prevent uncontrolled movements.

8.0 - REGULATIONS FOR SAFE USE AND THE PREVENTION OF ACCIDENTS



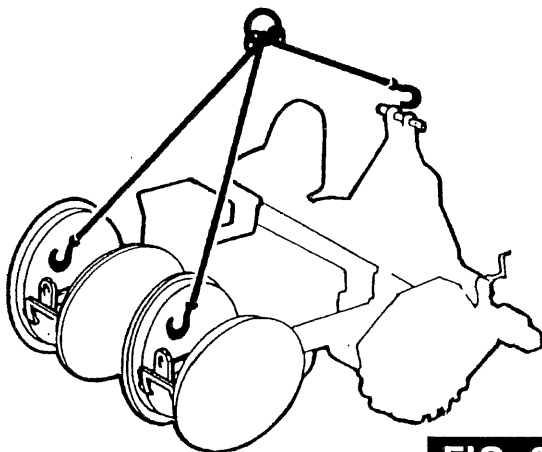
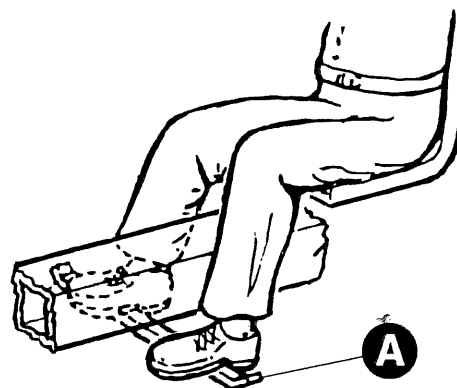
8.1 - **Read all the instructions** before using the machine, especially those which relate to safeguarding against physical injury. The Manufacturer accepts no responsibility for any damage arising from improper use of the machine or failure to observe these instructions.


It is the duty of the user to inform employees and other personnel of the directions set out in this document (this is a legal requirement).



8.2 - **Pay attention to the danger symbols** shown in this manual and on the machine.


8.3 - Adjustment, maintenance or work of any kind on the machine must be carried out **only with the engine OFF**, the machine resting on the ground, and the tractor chocked.

**FIG. 3****FIG. 4**

 **8.4** - Couple the machine only to a tractor of adequate power (see technical bulletin referring to the model in use), and with a lift unit which complies with standards specifically for tractors.

Adhere to the maximum stipulated weight on the axle, and the total mobile weight.

8.5 - When coupling and uncoupling the machine, pay maximum attention so as to avoid the risk of crushing.

 **8.6** - It is strictly forbidden for the tractor to be driven by inexperienced personnel or personnel not in possession of a driving licence or in poor health.


8.7 - Never leave the operator position when the tractor is running.

Before leaving the tractor, lower the lift unit, stop the engine, operate the parking brake and remove the ignition key from the control panel.

8.8 - Remember that the road-holding, steering and braking are affected by the presence of a carried or towed machine.

8.9 - When driving on the road it is necessary to abide by the highway code of the country in question.

8.10 - When transporting by road, with the machine lifted, put the hydraulic lift unit control lever in the locked position.


 **8.11** - The operators must take position on their respective seats and place their feet on the foot-rests (fig. 4.A) **only when the tractor is stationary and chocked and the machine is on the ground.**

It is strictly forbidden to travel from one work area to another or on the road with the lift unit raised and operators on board. It is forbidden to alight if the machine is moving or not positioned on the ground.

8.12 - The moving parts (wheels - chains - distributors etc.) are protected by appropriate guards, and where this is not reasonably possible, sufficient space has been allowed so as to prevent the risk of crushing. **Upon no account wear loose clothing**, which may become trapped in the parts described above during operation, and in any event, pay maximum attention while working, as moving parts of any machine are inherently dangerous.

8.13 - Do not remove the safety and protection devices which have been installed. If they are removed for the purpose of making adjustments or carrying out maintenance, ensure that they are refitted in their correct place.

8.14 - Check the efficiency of the protection devices periodically and renew them when necessary, using only original spare parts, which can be supplied by the Manufacturer or its authorized dealers.

 **8.15 - Do not lend the machine to inexperienced persons:** in the event of an accident, you may be accountable.

9.0 - MACHINE PREPARATION (WHEN REQUIRED)

The machine may have been shipped partially disassembled in order to reduce the overall size. Assemble making reference to Fig. 5 and to the drawings in the spare parts catalogue, from page 63 to page 65.

10.0 - COUPLING TO THE TRACTOR

10.1 - The machine must be coupled to the tractor on flat ground.

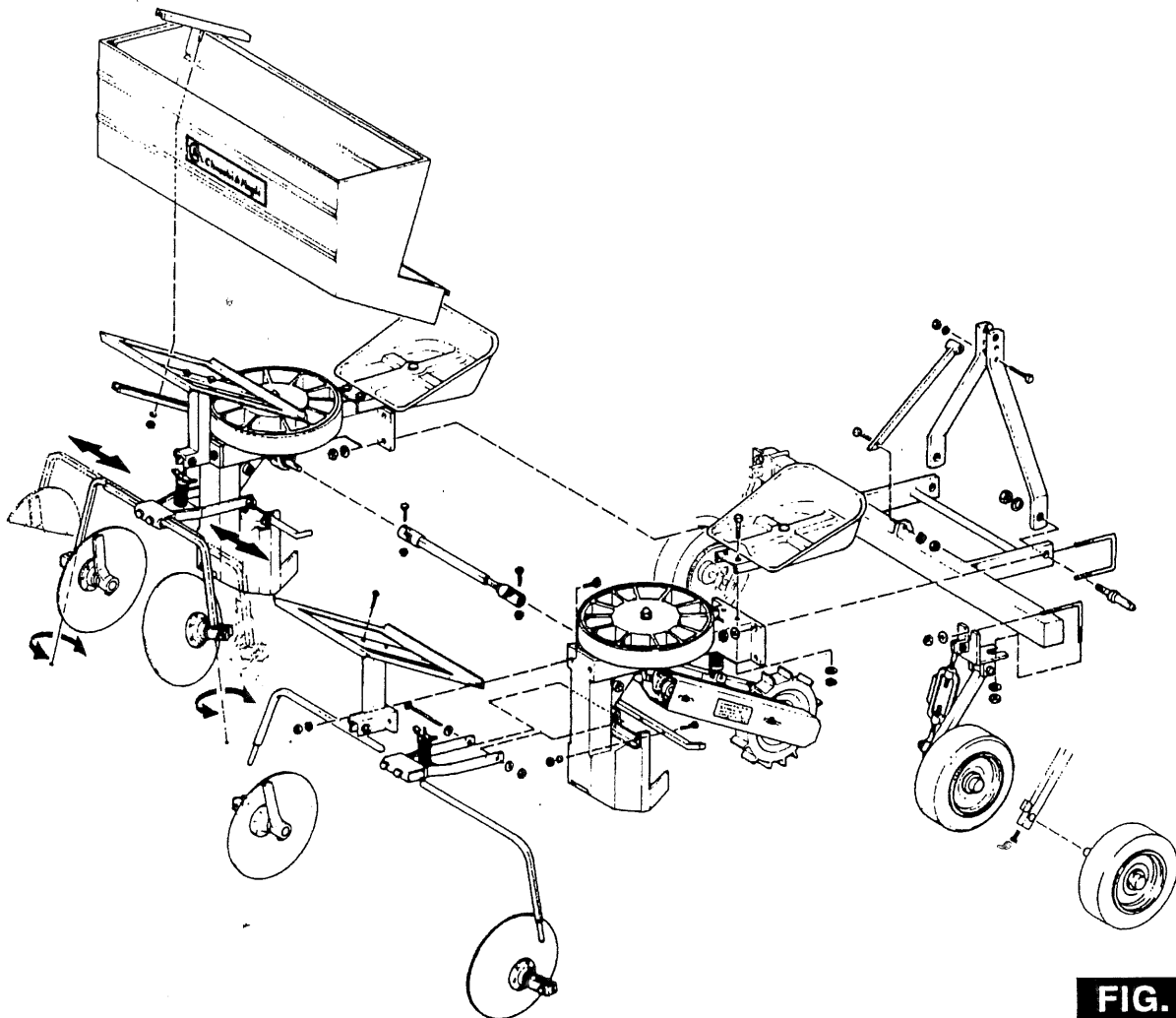
10.2 - Check that the three-point linkages are of a compatible category.

10.3 - Bring the tractor up to the machine, **taking care not to get between the two at this stage**, and proceed with coupling only when the tractor is stationary. Fix the three coupling arms with the relative pins and insert the appropriate safety split pins (fig. 6).

10.4 - Limit sideways movements and keep the machine parallel with the tractor, using the stabilizer chains and arm adjustment device (fig. 7).

10.5 - Adjust the third point arm until the machine coupling is at right angles (fig. 8).

10.6 - If applicable, position the support foot as shown in fig. 9.


FIG. 5

11.0 - UNCOUPLING FROM THE TRACTOR

- position the equipment on the ground, only in a flat area;
- lower the support foot, if applicable;
- make certain that the equipment remains stable;
- remove fixing pins and plugs, taking care not to get between the equipment and the tractor;
- ensure again that everything is stable, bearing in mind all eventualities.

12.0 - USABLE POTATOES - TUBERS

This transplanter has been produced for transplanting potatoes, tubers, etc., either whole or cut; for best results observe the maximum dimensions shown in fig. 10. For dimensions or types of tubers different from those indicated in Fig. 10, check size directly on the distributor cup; in this case, take extra care that they do not obstruct or jam the drop tube.

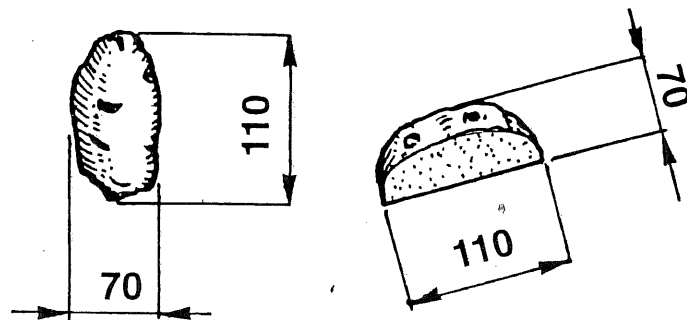


FIG. 10

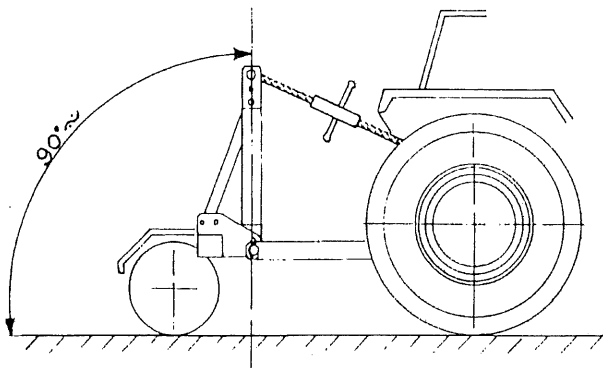


FIG. 8

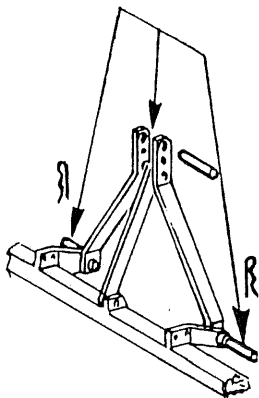


FIG. 6

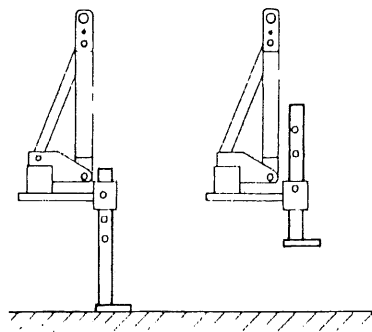


FIG. 9

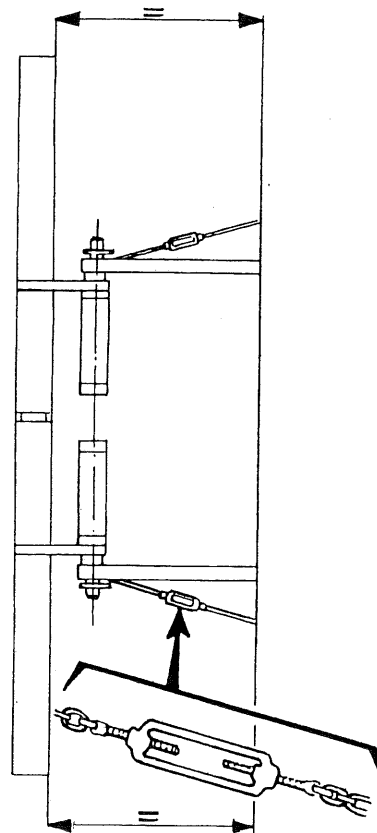


FIG. 7

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13.0 - CRATE HOLDERS - HOPPER FOR POTATOES AND TUBERS

The transplanter is equipped with a crate holder surface (Fig. 11.A) on which the potato or tuber containers are deposited. On request, a deposit hopper may be applied (Fig. 11.B), into which the potatoes or tubers can be emptied in bulk. Hopper capacity is approx. 70-80 Kg per row.

⚠ 13.1 - Warning : when working with a full load in the hopper, be sure to check that during the lifting phase, the load on the front axle of the tractor still guarantees sufficient and constant stability.

14.0 - LAND

You are advised to work on land which has been suitably prepared with harrows or hoes, at least to the required transplanting depth. It is best not to work on terrain which is too wet.

⚠ Take extreme care during manoeuvres on steeply sloping land.

15.0 - OPERATORS ON BOARD

Pay particular attention to the safety regulations in points 8.11 and 8.12.

16.0 - FUNCTIONS OF THE OPERATOR **⚠**

Take the tubers out of their containers and place them in the distributor (fig. 11.C). Do not place tubers in the rear cups of the distributor near the drop tube, as these are continuously opening and closing. Decide, with the tractor driver, upon a working speed which allows sufficient time to perform the above functions properly. Make constant visual checks of the transplant quality, and in the event of anomalies, give the **STOP** signal, so that you can check the causes and take the necessary corrective action.

17.0 - FUNCTIONS OF THE TRACTOR DRIVER **⚠**

Pay particular attention to the safety regulations in points 8.1 to 8.15. Before starting work decide with the operator(s) on a "start" and "stop" signal.

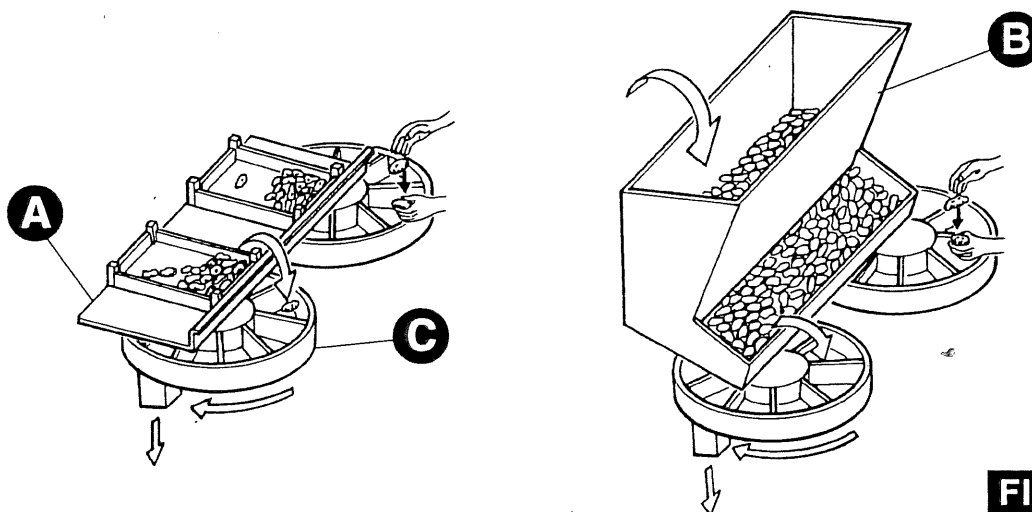


FIG. 11

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Adjust to the required speed by means of the gear change, keeping at the lowest possible rpm.

Make certain that the tractor's exhaust fumes are not directed at the operators and that the silencer is completely efficient. By adhering to the above instructions, it is possible to work with limited noise levels, thus facilitating communication between the operators and the tractor driver.

-AVOID REVERSE MOTIONS WITH THE TRANSPLANTER STILL ON THE SOIL.

18.0 - TRANSPLANT DISTANCE

18.1 - INTER-ROW SPACING

The distance between rows is adjustable by moving the units (Fig. 12.A) with respect to the frame (Fig. 12B).

Minimum 55 cm

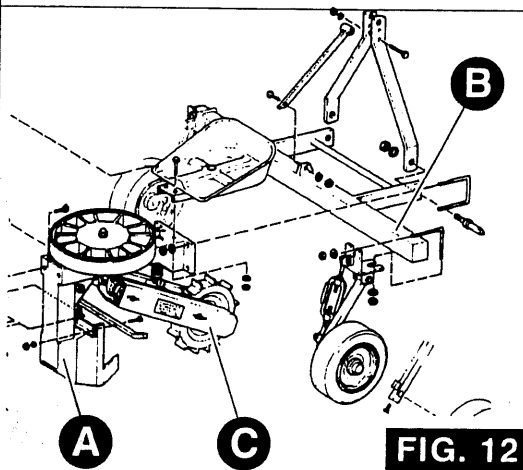
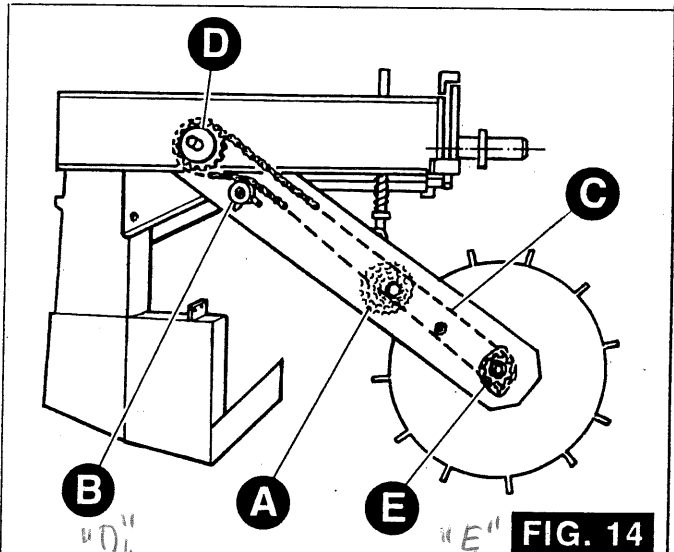
Maximum 90 cm (or more, upon request).

18.2 - INTER-PLANT SPACING

Diagram (fig. 13.A) shows the distances which can be obtained with the standard gear ratios.

Diagram (Fig. 13.B) shows the distances which can be obtained with the optional gear ratios. To change the standard gears (Fig. 14.A) and obtain the distances indicated, observe the safety regulations (ref. 8.0), and proceed as follows:

- Remove the casing (fig. 12.C)
- Release the chain tensioner (Fig. 14.B)
- Remove the chain (Fig. 14.C)
- Change the gears (Fig. 14.D and E) by turning the appropriate fixing screws, positioning them as shown in the table (fig. 13), depending on the distance required.
- Reposition the chain
- Tighten the chain using the tensioning device.
- Fix the casing in place (Fig. 12.C).



19	← cm. 14	→ 12	A
19	← cm. 16	→ 11	
20	← cm. 18	→ 11	
20	← cm. 20	→ 10	
21	← cm. 22	→ 10	
21	← cm. 24	→ 9	
22	← cm. 26	→ 9	
22	← cm. 28	→ 8	

OPTIONAL			B
24	← cm. 32	→ 8	
26	← cm. 35	→ 8	
28	← cm. 38	→ 8	

F 300 L Chassis & Mopac components

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For close spacing 14T & 16T

19.0 - TRANSPLANT DEPTH

Turn the adjustment device (Fig. 17.D) to regulate the working depth, depending on the type of tuber and the characteristics of the soil.

20.0 - DRIVE WHEEL

The drive wheel runs the distributors, so during work, it must hold the ground constantly to operate the transplanting equipment correctly. To regulate drive wheel position, use the various settings provided for the adjusting pin (Fig. 17.H).

21.0 - COVERING DISCS

These discs cover up the tuber and can be adjusted for depth, width and angle of inclination (Fig. 17).

To regulate depth, use the adjustment spring (Fig. 17.E).

The width and angle of inclination of the discs can be changed using the adjusting screws (Fig. 17.F and 17.G).

22.0 - TRACTOR GAUGE

The imprint left on the ground by the wheels of the tractor, as well as having a compacting effect, also usually lowers the surface of the ground. Make sure that the tractor wheels are well positioned between the rows of tubers (Fig. 15).

23.0 - ACCESSORIES

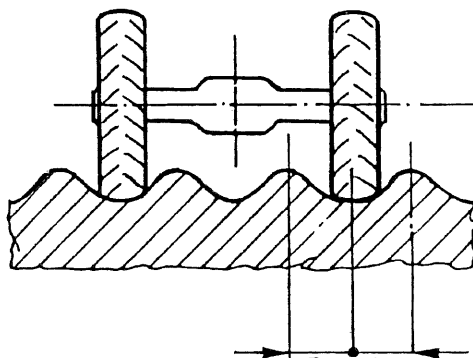
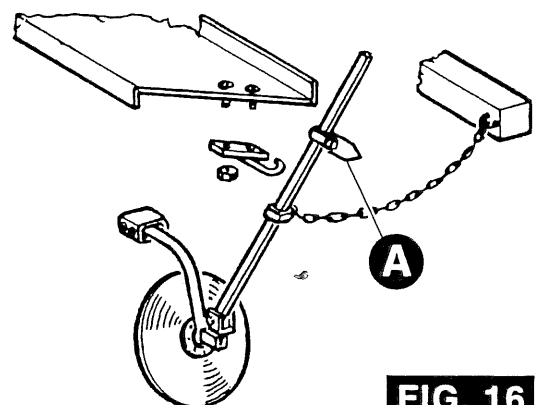
23.1 - ROW MARKERS: fit as shown in (fig. 16) and adjust the point of the marker to the desired distance (fig. 16.A). Positioning on the ground and lifting are manual. Carry out these operations with the machine stationary and make certain that there is nobody in the area in question.

When this accessory is fitted, the overall dimensions of the machine are increased; for this reason, take greater care during manoeuvres and disassemble before travelling on the road.

23.2 - OPTIONAL KIT FOR INTER-PLANT SPACINGS

To obtain the indicated distances between plants, fit the gears as shown in the table (fig. 13).

Do this work as described in point 18.2


FIG. 15

FIG. 16

23.3 - COVERING WITH ADJUSTABLE PLOUGHSHARES

This accessory can be used in place of the covering discs on very compact soil. Apply making reference to the Fig. on page 63.

23.4 - OTHER ACCESSORIES

Other possible accessories (e.g. microgranulator, fertilizer-broadcaster, etc.) come supplied with specific instructions for use and assembly.

24.0 - MAINTENANCE

The maintenance intervals listed below are guidelines for conditions of normal use. In the case of more demanding working conditions due to environment or seasonal factors, the frequency of maintenance operations must be increased accordingly. **Always carry out maintenance operations in accordance with the safety regulations set out in point 8.0.**

24.1 - CLEANING MOVING PARTS

Constantly check for build up of soil or other material which may accumulate in the following positions, and clean when required:

- in front of the furrow-cutting ploughshare
- inside the covering discs
- on the drive wheel
- on the distributor disc and drop tube.

24.2 - EVERY 40 HOURS OF WORK

- grease the gears of the distributor.
- oil the drive chains.
- check the tightness of the screws.

24.3 - RECOMMENDED LUBRICANTS

Grease and oil can be used in the same way as for the tractor, in accordance with the warnings and precautions appearing on the relative containers.

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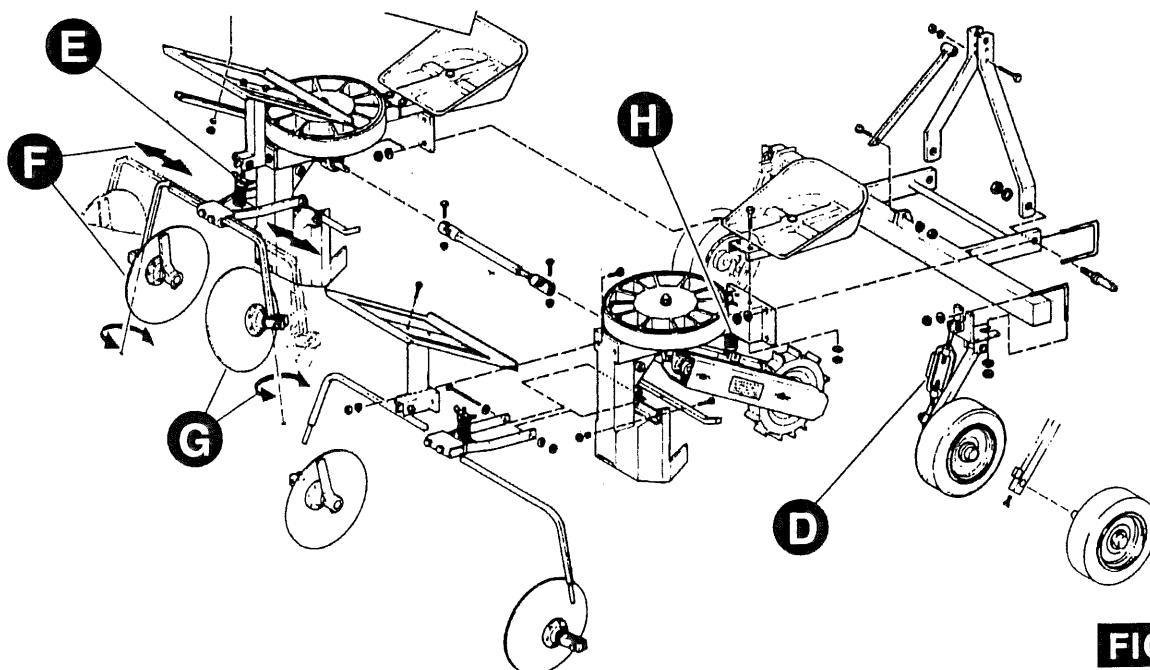
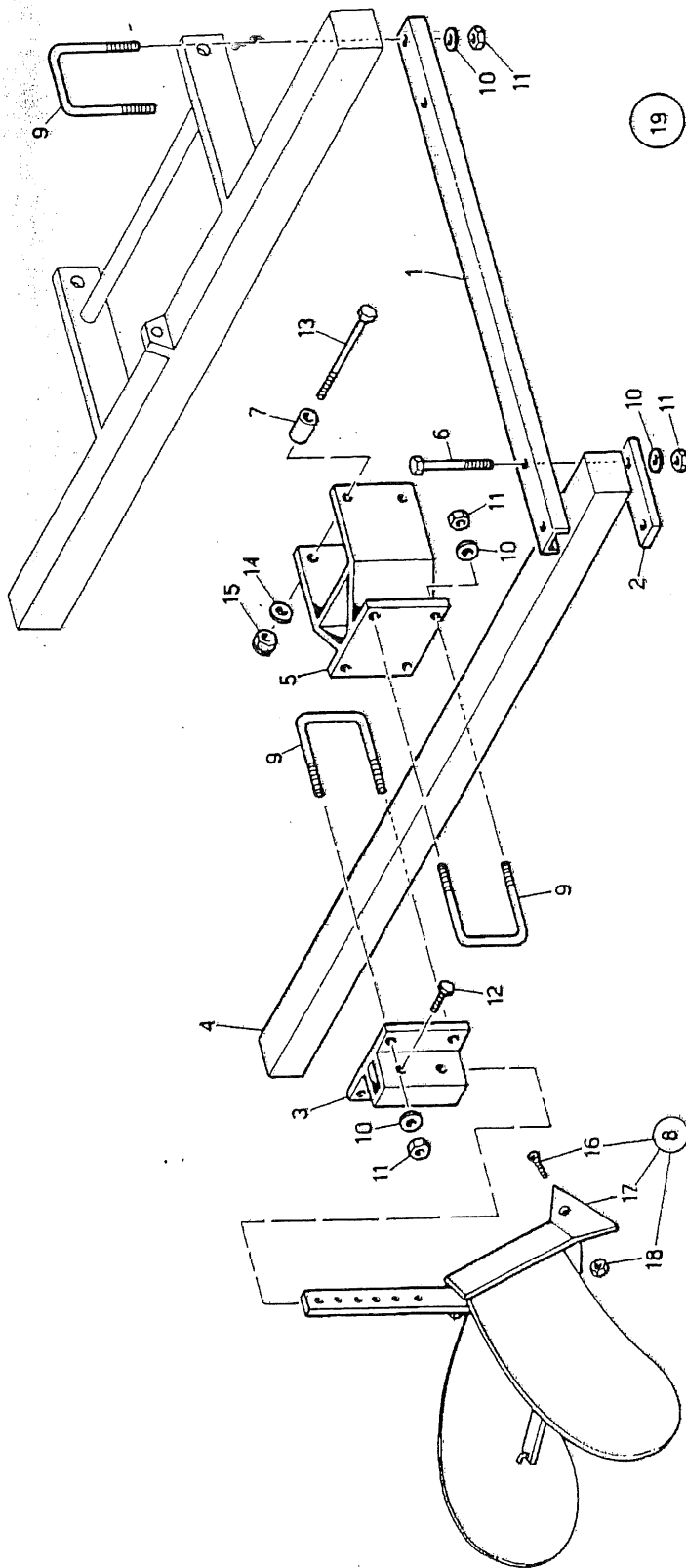


FIG. 17

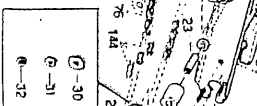
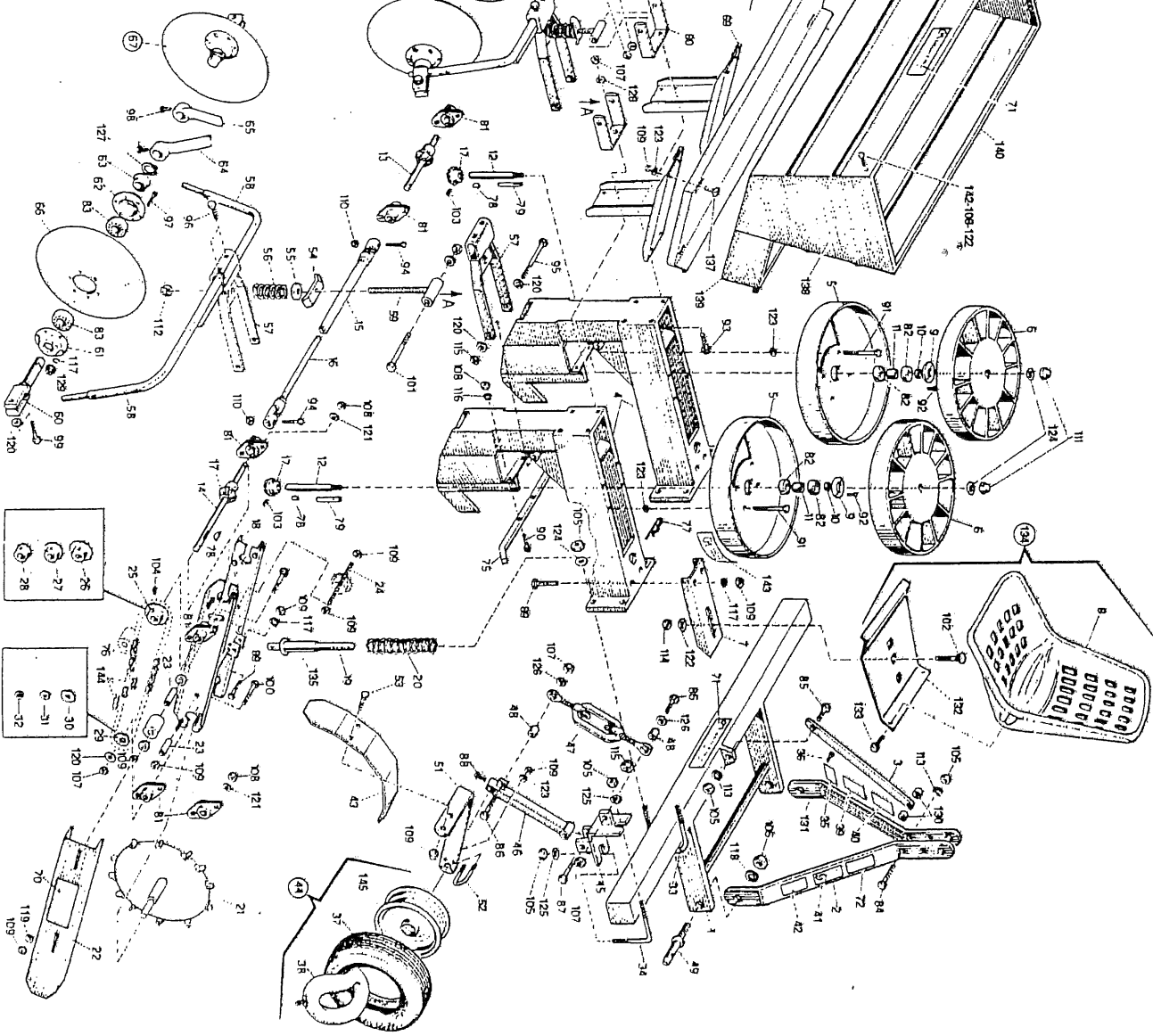
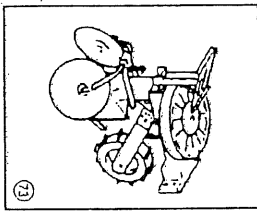
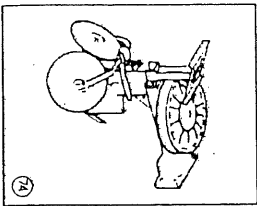


pos. codice descrizione

1	420282	BRACCIO LATERALE
2	400407	PIASTRA BLOCCAGGIO SUPPORTO LATERALE
3	420309	ATTACCO ASSOLCATORE
4	420281	TELAIO POSTERIORE cm. 100
4	420269	TELAIO POSTERIORE cm. 150
4	420091	TELAIO POSTERIORE cm. 200
4	420092	TELAIO POSTERIORE cm. 300
5	420283	ATTACCO PER TUBOLARE
6	900226	VITE TE 14X130
7	400412	DISTANZIALE F.10
8	500007	ASSOLCATORE
9	400041	CAVALLOTTO M14
10	907108	RONDELLA PIANA 14

pos. codice descrizione

11	905008	DADO M14
12	902174	VITE TE 12X25
13	904124	VITE BRUGOLA 10X180
14	907106	RONDELLA PIANA 10
15	906006	DADO M10 AUTOBLOCCANTE
16	904108	VITE USP 8X20
17	400072	ZAPPETTA ASSOLCATORE
18	905005	DADO M8
19	500166	KIT RINCALZ. A VERSO/1 FILA cm. 100
19	500167	KIT RINCALZ. A VERSO/2 FILE cm. 150
19	500168	KIT RINCALZ. A VERSO/3 FILE cm. 200
19	500169	KIT RINCALZ. A VERSO/4 FILE cm. 300



pos. codice	descrizione
1	420021 TELAIO CM. 150
1	420234 TELAIO CM. 200
1	420022 TELAIO CM. 300
2	400022, ATTACCO 3° PUNTO DX
3	400440 TIRANTE 3° PUNTO
4	420024 CORPO
5	400023 PIATTO DISTRIBUTORE
6	400024 RUOTA AD ALVEOLI
7	400025 SUPPORTO SEDILE
8	983001 SEDILE
9	400026 FLANGIA CUSCINETTO
10	400371 RONDELLA
11	400028 DISTANZIALE
12	420026 ALBERO VERTICALE
13	420027 ALBERO ORIZZONTALE
14	400685 ALBERO ORIZZONTALE MOTTRICE
15	420029 CARDANO ESTERNO
16	420030 CARDANO INTERNO
17	400029 INGRANAGGIO
18	420031 FORCELLA RUOTA MOTTRICE
19	420032 SUPPORTO MOLLA
20	400030 MOLLA
21	420033 RUOTA MOTTRICE
22	420034 COFANO
23	400031 DISTANZIALE
24	400032 VITE COFANO
25	400033 INGRANAGGIO
26	400034 INGRANAGGIO
27	400035 INGRANAGGIO
28	400036 INGRANAGGIO
29	400037 INGRANAGGIO
30	400038 INGRANAGGIO
31	400039 INGRANAGGIO
32	400040 INGRANAGGIO
33	400041 CAVALLOTTO
34	400042 CAVALLOTTO
35	400644 TARGHETTA -CE-
36	941300 RIVETTO
37	914082 COPERTURA
38	914083 CAMERA D'ARIA
39	400655 ADESIVO
40	400653 ADESIVO
41	400654 ADESIVO

pos. codice	descrizione
42	400652 ADESIVO
43	400570 PARAFANGO
44	914040 RUOTA IN GOMMA COMPLETA
45	420035 SUPPORTO RUOTA
46	420036 BRACCIO SUPPORTO RUOTA
47	992005 TENDITORE REGISTRO RUOTA
48	400043 DISTANZIALE
49	992001 PERNO TRAINO
50	500290 KIT TRAMOG. DEP. PATATE 1 FILA
50	500291 KIT TRAMOG. DEP. PATATE 2 FILA
50	500292 KIT TRAMOG. DEP. PATATE 3 FILA
50	500293 KIT TRAMOG. DEP. PATATE 4 FILA
51	400574 SUPPORTO PARAFANGO
52	400692 CAVALLOTTO
53	902581 BULLONE
54	400255 REGISTRO MOLLA
55	400375 CAPPELLOTTO MOLLA
56	800020 MOLLA
57	420043 SUPPORTO PIANTONI
58	400047 PIANOTONE DISCHI
59	420459 VITE REGISTRO
60	420044 MOZZO DISCO
61	400049 FLANGIA DISCO ESTERNA
62	400050 FLANGIA DISCO INTERNA
63	400051 BOCCOLA
64	420045 RASCHIETTO DX
65	420046 RASCHIETTO SX
66	400052 DISCO 410 BOMBATO
67	500003 DISCO CON MOZZO+CUSCINETTI
68	500004 GR. DISCHI 410+ATTACCO TRAINO
69	420337 BASE PER RIPIANI
70	400764 ADESIVO DISTANZE
71	400694 ADESIVO
72	400056 ADESIVO F300L
73	500005 UNITÀ F300L MOTTRICE
74	500006 UNITÀ F300L NON MOTTRICE
75	400057 SUPPORTO PIEDI
76	930001 CATENA
77	941202 COPPIGLIA A MOLLA
78	931027 LINGUETTA
79	931020 CHIAVETTA
80	400479 SUPPORTO VITE
81	913004 SUPPORTO FLANGIATO

pos. codice	descrizione
82	910108 CUSCINETTO
83	910109 CUSCINETTO
84	900223 VITE
85	902212 VITE
86	902142 VITE
87	900151 VITE
88	902104 VITE
89	900111 VITE
90	902073 VITE
91	900121 VITE
92	902468 VITE
93	902141 VITE
94	900075 VITE
95	900150 VITE
96	902488 VITE
97	902105 VITE
98	902138 VITE
99	900143 VITE
100	900113 VITE
101	900159 VITE
102	902549 BULLONE
103	904001 GRANO
104	904002 GRANO
105	905008 DADO
106	905408 DADO
107	905006 DADO
108	905004 DADO
109	905005 DADO
110	906004 DADO
111	905608 DADO
112	906009 DADO
113	907008 RONDELLA
114	905007 DADO
115	906006 DADO
116	907004 RONDELLA
117	907005 RONDELLA
118	907012 RONDELLA
119	907305 RONDELLA
120	907106 RONDELLA
121	907104 RONDELLA
122	907107 RONDELLA
123	907105 RONDELLA
124	907108 RONDELLA

pos. codice	descrizione
125	907308 RONDELLA
126	907306 RONDELLA
127	940504 SEGER
128	907006 RONDELLA
129	904964 DADO FLANGIATO
130	400168 DISTANZIALE
131	400645 ATTACCO 3° PUNTO SX
132	420240 SUPPORTO SEDILE
133	904534 VITE
134	500123 SEDILE COMPLETO
135	400695 DISTANZIALE
136	400593 BASE TRAMOG. CM. 130 (2/4 FILE)
136	400594 BASE TRAMOG. CM. 60 (1/3 FILE)
137	902581 BULLONE
138	400595 FIANCATA DX
138	400596 FIANCATA SX
139	400597 FIANCATA ANTERIORE DX
139	400598 FIANCATA ANTERIORE SX
140	400599 PARETE ANTER. TRAMOG. CM. 130
140	400600 PARETE ANTER. TRAMOG. CM. 60
141	400601 PARETE POST. TRAMOG. CM. 130
141	400602 PARETE POST. TRAMOG. CM. 60
142	902443 VITE
143	400404 ADESIVO
144	930502 MAGLIA DI GIUNZIONE
145	914081 DISCO RUOTA