TANCO AUTOWRAP 450S/550S/550A MODEL 1996 OPERATORS HANDBOOK AND PARTS LIST WD65-450S/550S/550A-M0196

#### GUARANTEE

Subject as hereunder provided, the Sellers undertake to correct either by repair or at their election by replacement any defect of material or workmanship which occurs in any of its goods within twelve months after delivery of such goods to first user, with the exception of contractors or commercial users when warranty period is six months.

In respect of Autowraps the warranty period is for 12 months or 8000 bales

which ever occurs first.

In respect of Aerways time breakage will be assessed on an individual basis in every case.

The term goods when used in this document means the article or articles described in invoice as sold by the sellers but does not include equipment or proprietary parts or accessories not manufactured by the sellers. The sellers, however, undertake to pass on so far as they legally can to the first user the benefit of any warranty given to the Sellers by the suppliers of such equipment, parts or accessories.

This understanding shall not apply to:

(a) Any goods which have been sold by the first user.

- (b) Any goods which have been injured by unfair wear and tear, neglect or improper use.
- (c) Any goods the identification marks of which have been altered or removed.
- (d) Any goods which have not received the basic normal maintenance such as tightening of bolts, nuts, times, hose connections and fittings and normal lubrication with the recommended lubricant.
- (e) The use of any product on tractors exceeding the recommended horsepower.
- (f) Any goods which have been altered or repaired other than on instruction or with the written approval of the Seller or to which any part not manufactured or having written approval by the Sellers have been fixed.
- (g) Any second-hand goods or part thereof.

Any allegedly defective part or parts returned to the Sellers must be sent carriage paid. No claim for repair or replacement will be entertained unless upon discovery of the alleged defect written notification is sent to the Sellers giving, at the same time, the name of the Buyer from whom the goods were purchased and the date of purchase together with full details of the alleged defect and the circumstances involved, also the serial number of the machine etc.,

The Sellers shall be under no liability to their Buyers and first and subsequent users of their goods or to any other person or persons for loss or damages howsoever arising in respect of either personal injuries or for arising out of, or in any way connected with or arising from the manufacturers sale, handling, repair, maintenance, replacement or use of its goods or the failure or malfunction of any of its goods.

Representation and/or warranties made by any person (including Buyers and employees and other representatives of the Seller) which are inconsistent or conflicting with these conditions are not binding upon the Sellers unless given in writing and signed by a Director of the Sellers.

#### <u>CLAIMS</u>

If you wish to make a claim under guarantee.

- 1. Immediately, stop using the machine.
- 2. List the details of the machine, its serial number and the part number of the damaged part.
- Consult with your Tanco dealer (supplier) and have him forward your claim and the damaged item to Tanco.

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#### GENERAL SAFETY RECOMMENDATIONS

Before operating the machine, always ensure that the tractor and machine meet with work safety and road traffic regulations.

#### BASIC PRINCIPLES

- 1: In addition to the recommendations given in this manual, legislation on work safety and accident prevention must also be respected.
- Advice is indicated on the machine, specifying safety recommendations in order to prevent accidents.
- 3: Before travelling on public roads, the operator must ensure that the machine conforms to road traffic regulations.
- 4: Before starting work, the operator must be familiar with all machine controls, handling devices and their functions. Once at work, it is too late to do this!
- 5: Do not wear loose clothing which could become caught up in moving elements.
- 6: The tractor should be equipped with a safety cab.
- 7: Before starting up the machine and beginning work, wheck the surrounding area (beware of children!). Make sure there is sufficient visibility. Keep all people and animals away from the danger zone of the machine (risk of projection!).
- 8: Carrying people or animals on the machine when working or in transport is strictly forbidden.
- 9: Machine must only be attached to tractor using means provided and in accordance with current safety standards.
- 10: Special care should be taken when attaching or removing the machine from the tractor.
- 11: Before transporting the machine on public roads, ensure that all legally required guards and indicators (lights, reflectors ...) are in place and in good operation.
- 12: All operating controls (cords, cables, rods etc.) must be positioned so that they cannot be set off accidently, risking accident or damage.
- 13: Before travelling on public roads, put the machine into its transport position as instructed in this operators manual.
- 14: Never leave the tractor seat while the machine is operating.
- 15: Drive speed must be adapted to ground conditions as well as to roads and paths. Always avoid abrupt changes of direction.
- 16: Before operating the machine, ensure that all safety guards are firmly in place and in good condition. If worn or damaged, replace immediately.
- 17: Before operating the machine, check the tightness of all nuts and bolts, particularly on fixing elements (blades, times, knives, spades etc.,).
- 18: Keep clear of the machine operating area.
- 19: WARNING! Danger of crushing and shearing can exist when components are operated by hydraulic or pneumatic controls.
- 20: Before leaving the tractor or before adjusting, maintaining or repairing the machine, turn off the engine, remove the ignition key and wait until all moving parts have come to a complete stop.

- 21: Do not stand between the tractor and the machine unless the hand brake is tight and/or stops have been placed under the wheels.
- 22: Before any adjustments, maintenance or repairs are carried out, ensure that the machine cannot be started up accidentally.

## ADDITIONAL RECOMMENDATIONS FOR LINKAGE MOUNTED MACHINES

- 1: Before attaching the machine, ensure that the front tractor axle is sufficiently ballasted. Ballast is to be placed on the supports provided in accordance with instructions of the tractor manufacturer.
- 2: Do not exceed the maximum axle load or the overall transport weight prescribed by the tractor manufacturer.
- 3: Precision steering, tractor adherence, road holding and efficient braking are influenced by the type of implement, weight, ballast of front axle, ground or road conditions. It is therefore of utmost importance to be cautious in every given situation.
- 4: Be particularly cautious when turning corners, paying attention to machine overhang, length, height and weight.

#### SAFETY RECOMMENDATIONS FOR ATTACHING IMPLEMENTS TO TRACTOR

- 1: When attaching or removing the machine from the tractor, position hydraulic lift control lever in such a way that it cannot be set off accidentally.
- 2: When attaching the machine to the tractor hydraulic linkage, ensure that diameter of the link pins corresponds to the diameter of the ball joints.
- 3: WARNING! Danger of crushing and shearing can exist in the lifting zone of the tractor hydraulic linkage!
- 4: Do not stand between the tractor and the machine when operating the outer lever of the lift mechanism.
- 5: In transport, the machine lift mechanism should be stabilized by tractor tie rods to avoid floatation and side shifting.
- 6: When transporting the machine, lock the hydraulic lift control lever in place so that it cannot be lowered accidentally.

#### HYDRAULIC SYSTEM

1: WARNING! Hydraulic system is under pressure.

- 2: When fitting hydraulic motors or cylinders, ensure that connections have been made correctly, as per manufacturers instructions.
- 3: Before connecting hoses to the tractor hydraulics, ensure that tractor and machine circuits are not under pressure.
- 4: It is strongly recommended that the operator marks the hydraulic connections between tractor and machine to avoid making a wrong connection.
  - WARNING! Functions could be reversed (for example: lift/lower).
- 5: Check hydraulic hoses regularly! Worn or damaged hoses must be replaced immediately. Replacement parts must be in accordance with the manufacturers recommendations concerning specifications and quality.
- 6: Should a leak be found, take all necessary precautions to avoid accidents.
- 7: Any liquid under pressure (particularly oil from hydraulics) can penetrate the skin and cause severe injury. If injured, see a doctor immediately, there could be a danger of infection.
- 8: Before any adjustments, maintenance or repairs are carried out, lower the machine, depressurize the circuit, turn off the engine and remove the ignition key.

#### MAINTENANCE

- 1: Before checking for any machine malfunction and before adjusting, maintaining or repairing the machine, turn off engine and remove ignition key.
- 2: Check tightness of nuts and bolts regularly. Retighten if necessary.
- 3: If the machine is raised, prop it up in a stable position before carrying out any maintenance work.
- 4: When replacing a working part, wear protection gloves and use only standarized tools.
- 5: It is forbidden to discard any oil, grease or filters. These must be given to waste disposal organisations to protect the environment.
- 6: Disconnect power source before any work is done to the electric system.
- 7: Check safety guards regularly, particularly those that are subject to wear. Replace immediately if damaged.
- 8: Spare parts used must be in accordance with specifications and standards as defined by the manufacturer. Use only genuine TANCO parts.
- 9: Before any electric welding is carried out on tractor or attached machine, disconnect generator and battery terminals.
- 10: Repairs on elements under pressure or tension (springs, accumulators etc.) must only be carried out by competent persons with standardized equipment.

#### SPECIAL SAFETY INSTRUCTIONS

- Stop engine of tractor before working on machine.
- Put a suitable prop under raised platform before working in this area.
- Always raise Lift Arm and fit safety prop before transporting machine on public roads.
- Lift Arms should always be lowered before operating turntable.
- Ensure platform rollers are parallel to Lift Arm before arm is raised.
- 6. On Autowrap models fitted with hydraulic bale ramp it is esstential that the hydraulic hose is not disconnected from the hydraulic cylinder or hydraulic accumulator. This system is charged under pressure. Also, do not attempt to open the hydraulic accumulator as this is a pressurised unit.

#### OPERATING SAFETY INSTRUCTIONS

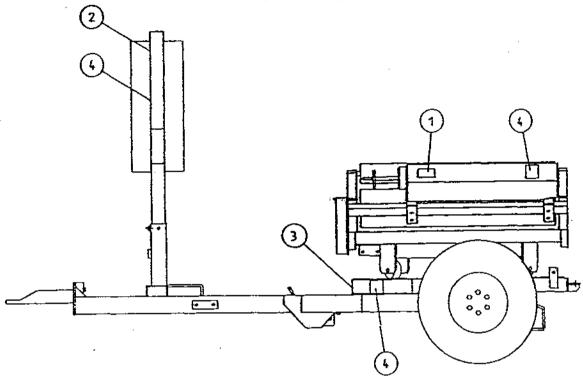
- Operators should have their hands on the controls at all times when machine is in use.
- Autowrap control unit and level controls must remain in the tractor cab at all times. The operator must at no time leave the tractor cab when the machine is in motion.
- 3. Keep onlookers clear of machine at all times. Danger zone is 5 metres.
- 4. Beware of rotating turntable and all moving parts.
- 5. If not operated correctly the bale could fly off the turntable. The end support rollers must always be fitted. Do not exceed recommended turntable speed of 30 r.p.m. Mis-shapen bales combined with excessive turntable speeds can be dangerous.
- 6. Care must be taken when tipping bales from machine on sloping ground and during subsequent handling to ensure that they do not roll, thus causing hazard.

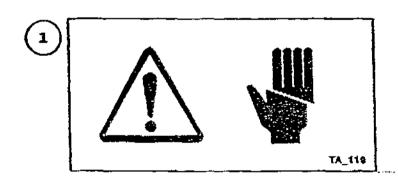
THINK OF YOUR PERSONAL SAFETY AND THAT OF OTHERS AT ALL TIMES.

## SAFETY DECALS

The following safety decals have been placed on your machine in the areas indicated. They are intended for your personal safety and for the safety of the people working with you. With this manual, walk around your machine and note the content and location of these warning signs. Review these decals and the operating instructions in the manual with your machine operators.

Ensure that these decais are always legible. If they are not, replace them.

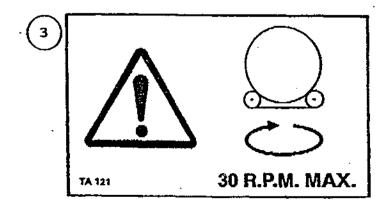




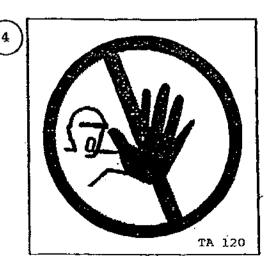
WARNING SHARP KNIFE



BEFORE STARTING THE MACHINE READ OPERATORS MANUAL AND SAFETY INSTRUCTIONS



DO NOT EXCEED TURNTABLE SPEED OF 30 R.P.M



DANGER STAND CLEAR

## TECHNICAL SPECIFICATIONS

|  |                           | 450S/550S/550A<br>Models Trailed                           |
|--|---------------------------|--|
| Dimensions   |                           |  |
| Total length - Excluding Bale Width - excluding lift arm " - lift arm fully raised " - lift arm lowered Height to top of side (bale gu Height to top of lift arm |                           | . 221cm<br>. 243cm   |
| Weight   |                           |  |
| With lift arm<br>Without lift arm  |                           | . 1080kgs<br>. 960kgs                                      |
| Wheels   |                           |  |
| Size<br>Pressure   |                           | . 10-80. 12<br>. 50 p.s.i.                                 |
| Lift arm capacity - Axle exter   | nded normal<br>nded fully | ly 750kgs<br>1000kgs                                       |
| Speed of turntable<br>Oil requirement  | •••                       | 30 rev/min*<br>(165 kpcm2)<br>25 lit/min                   |
| Attachment to tractor  |                           | Tractor Hitch  |
| Bale Sizes   | • • •                     | 120 x 120cm up to<br>150 x 150 cm max<br>weight of 1000kgs |
| Film (Width of Roll)   | •••                       | 500mm on 450S<br>750mm on 550S<br>" " 550A                 |

<sup>\*</sup> The speed of rotation can be varied to suit various conditions but on no account should it exceed 30 r.p.m. (Speed in excess of 30 r.p.m. will void warranty).

### PRE DELIVERY INSTRUCTIONS

IMPORTANT: DO NOT ATTEMPT TO OPERATE UNTIL THE FOLLOWING INSTRUCTIONS ARE PERFORMED OTHERWISE SERIOUS DAMAGE COULD BE CAUSED.

### 1. MACHINE ASSEMBLY

For ease of transportation some items are removed from their positions and stored elsewhere on the machine. The control box, film dispenser and cut and start unit are stored under the bale belt. Also stored under belt on remote control machines are the infra red receiver and sender units and warning beacon. The film mast is attached to the front of the machine. On round bale machines only, the top rollers c/w mounting brackets and the plastic end rollers are mounted on temporary brackets beside the bale belt. Road wheels, bale lift arm and bale ramp are transported separately. Remove the above items and assemble as detailed in parts list section of this manual taking particular note of the following points.

## (i) DISPENSER MAST

Insert lift mast into socket towards front of machine. Ensure film pull down ram is faced towards the machine. Attach the pull down arm hydraulic ram. Attach the film dispenser to the mast ensuring that the end marked top is faced up. On remote control machines attach the infra-red receiver and warning beacon to top of mast. The film mast is adjustable. Its position is dependant on bale size and type and is set in the field. It should be set so that centre line of film is in line with centre of bale. See Fig. 1

## CUT & START

Attach Cut & Start unit to mounting frame on the left hand side of the machine. It is possible to move the unit along the mounting and fix it to any of three holes. On all round bale wrapping machines the unit is fixed to the centre hole on the mounting frame. Connect electrical supply to unit ensuring that wiring is secure. The cable is stored on the turntable frame near the Cut & Start mounting.

## (iii) BALE LIFT ARM

Assemble bale lift arm and attach to mounting points on right hand side of main chassis. Attach hydraulic ram to lift arm; grease pivot pins.

## (iv) TOP ROLLERS AND PLASTIC END ROLLERS

Place plastic end rollers in sockets on the back and front of the turntable. On round bale machines only, attach top rollers and mounting brackets to each side of the machine.

## (v) ROAD WHEELS (trailed machines only)

Attach road wheels ensuring that nuts are tight and tyre pressure is 50 p.s.i.

#### (vi) BALE RAMP OR MAT

Attach bale ramp or mat to rear of chassis. Note Round bale trailed models have bale ramps with an option of hydraulic bale ramp.

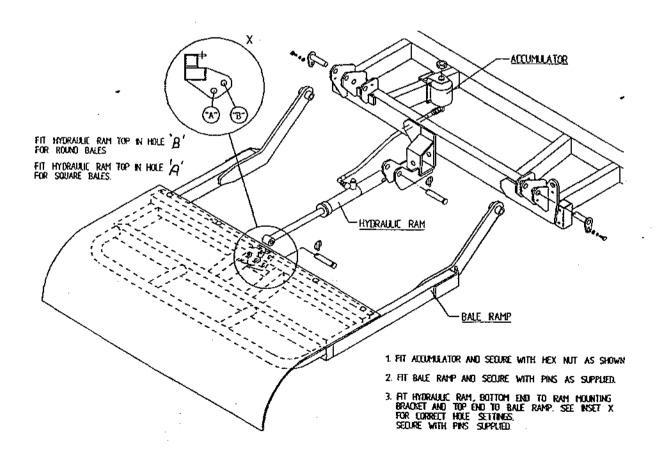
Linkage mounted machines have bale mats. The standard 1050 trailed models have hydraulic bale ramps.

SEE INSTRUCTION BELOW FOR FITTING HYDRAULIC BALE RAMP.

#### CHECKS TO BE PERFORMED

- 1. Check that all bolts and nuts are tight.
- 2. That all lubrication points are greased.
- Check that all guards are in place.
- 4. Check all operating and safety stickers are in place.

## INSTRUCTIONS FOR FITTING HYDRAULIC BALE RAMP



## 2. OPERATIONAL TEST

When all above assembly and checks have been carried out the operation of the machine should be checked as follows:

NOTE: IF YOU ARE NOT TOTALLY FAMILIAR WITH THE OPERATION OF THE TANCO CONTROL SYSTEM READ THIS MANUAL IN FULL BEFORE PROCEEDING WITH OPERATIONAL TEST.

- Attach machine to tractor.
- Connect hydraulic hoses to D/A service on tractor. 2.
- 3. Fit controller box inside cab.
- Connect control box to machine and connect power cable direct to tractor battery. It is important that the leads are connected with the correct polarity.
- Fit cable control actuator socket to convenient 5. position in cab and locate actuators in socket.
- Lock hydraulic lever in tractor so that oil is flowing through system.
- 7. Check function by operating control levers.(a) Lift arm up and lift arm down. NOTE ensure lift arm is down before moving to (b).
- (b) Turntable rotation forward and reverse.
- (c) Tip up and down checking hoses are o.k.
- Switch controller on.
- Switch controller to manual operating mode by operating toggle switch.
- 10. Check Cut & Start plunger out and in.
- 11. Switch machine to AUTO mode then run through the Wrapping cycle. See operating instruction section of this manual on how the machine should perform, and if any function fails to operate correctly consult fault finding section of the operators manual.

## CUSTOMER CHECKS

Before despatching consult customer on the following points:

- 1. That the machine model suits his requirements.
- If machine is to be operated on a tractor with a closed centre hydraulic system then a closed centre valve is required, see separate instructions.
- That the tow hitch type is compatible with the З. tractor. Three different hitch types are available.

#### TRANSPORT INSTRUCTIONS

- 1. Never use straps around the machine when lifting. Use only the following lifting points: Tow hitch and two sockets on each side of main frame at rear for trailed models. 3pt.Linkage frame and two sockets on each side of main frame at rear for 3 pt. Linkage Model.
- When the machine is towed on the road the Lifting Arm (if fitted) must be in the fully raised position, the safety prop fitted and the axle returned to narrowest position.
- 3. Raise the Parking Jack on trailed models before moving machine.

#### MACHINE IDENTIFICATION

The Serial Number plate is located on main frame forward of offside wheel on trailed models and on 3pt. Linkage frame for 3pt. Linkage model.

Always refer to this number when ordering parts. The Spare parts catalogue number and description should be used. The reference numbers are used to help identifying the spare part.

| For your records write serial number he | For | cord | rec | cords | write | serial | number | her |
|---|-----|------|-----|-------|-------|--------|--------|-----|
|---|-----|------|-----|-------|-------|--------|--------|-----|

| SERIAL | MA  |  |  |  |
|--------|-----|--|--|--|
| JEKIKU | MV. |  |  |  |

#### PREPARATION OF A NEW MACHINE

- 1. Check height of film mast to ensure that centre line of film spool is level with the centre line of the bale on the turntable. This will alter with different bale diameters. If this alignment is not correct more film than necessary will be used. See fig 1.
- When connected to John Deere\* tractor the value must be converted to closed centre.

#### HYDRAULIC CONNECTIONS

Connect the feed and return hoses from the Autowrap valve to the tractors double acting facility.

NOTE: The return hose is fitted with a non-return valve to protect the Autowrap from damage in the event of incorrect connection to tractor hydraulics.

NOTE: To ensure maximum efficiency and length of lift of hydraulic components this machine requires a clean supply of hydraulic oil. IT IS RECOMMENDED THAT THE TRACTOR HYDRAULIC FILTER ELEMENT TO BE REPLACED AND THEREAFTER MAINTAINED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

#### Bale Wrap Controller:

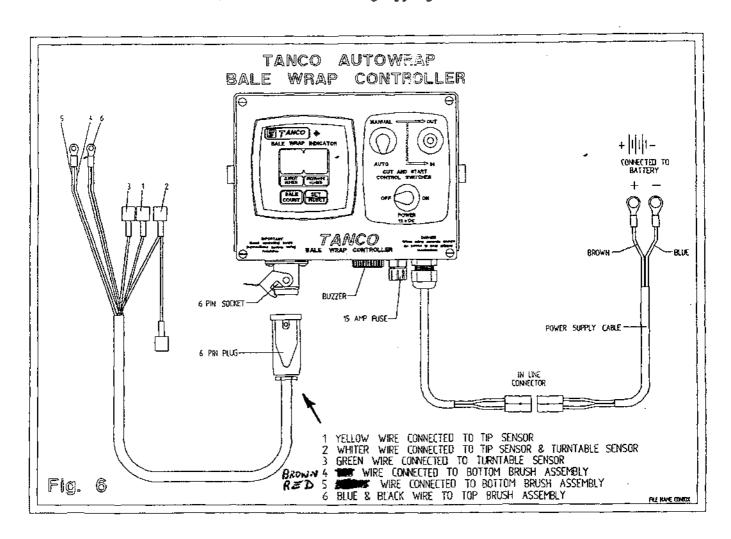
Connect direct to battery as per operating instructions and switch on. The programming of the Automatic Bale Wrap Controller is easily done by following the steps outlined below:

Once the unit is switched on, the number of required turnable revolutions appears on the right hand display. To change this press and hold the "hold to set" button, see fig. 6, then press the "set/reset" button. The first digit of the number will then blink and count from 0-9. Release the "set/reset" button at the required number. By pressing the "set/reset" again the second digit can be changed.

The monitor counts the number of bales per batch and the cumulative total. To see these, press the "bale count" button. The first number to appear is the batch total. If the button is held down for 10 seconds, a line will appear on the display, followed by the cumulative number wrapped. The batch count can be reset to 0 by holding the "bale count" button down and pressing the "set/reset" once. The cumulative total cannot be returned to zero.

To enable you to understand how the controller works, here is a brief resume of its functions.

(1) After two revolutions of the turntable the actuator pushed open the Cut and Start, this action takes 8.5 secs until the latch engages, then after 9 revolutions of the turntable the actuator closes for a period of 5.5 seconds and stops in the rest position. When the turntable is tipped, the magnet operates the sensor which activates the linear actuator which closes fully and in doing so, trips the latch releasing the gripper arm which slams closed under the spring pressure, cutting the film and, at the same time gripping the film for the next bale.



## 450S/550S MODEL

## BALE WRAP CONTROLLER FUNCTIONS

The Bale Wrap Controller has a total of seven functions to control.

To access these functions press/hold \* button and switch on, then release \* button.

A Chevron V appears at the left hand side of the display windows: - this may be moved across the display from left to right by repeatedly pressing \* button.

The seven chevron positions have specific functions and the time for each function may be set by the two buttons at the bottom of the display screen.

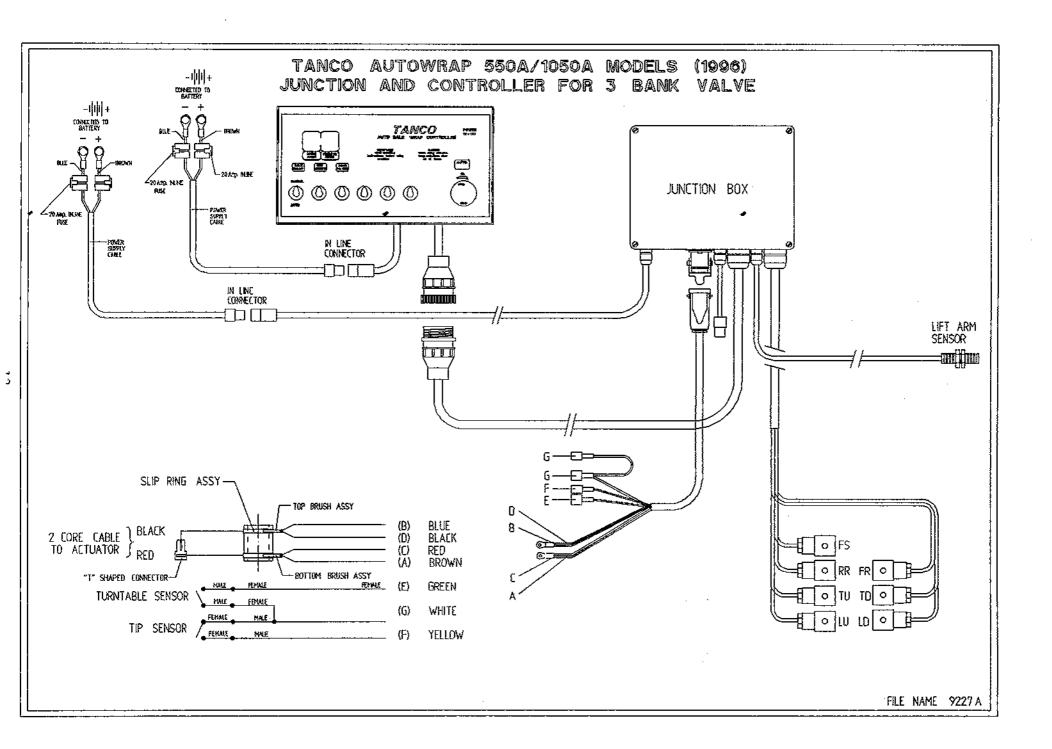
#### - < > +

Reading from left to right the chevron positions are as follows:

- V (1) Indicates number of turns to activate motor = 2
- V (2) Indicates the number of seconds it powers out until the latch engages = 8.5
- V (3) Indicates the number of revolutions of the turntable before the motor reverses = 9
- V (4) Indicates the number of seconds required to reverse to the park positions = 5.5
- V (5) Indicates the number of seconds from the tipping signal until the motor is fully closed = 2.5
- V (6) Indicates the number of revolutions before the set figure at which the buzzer sounds = 0
  - (7) No chevron appears but letter N appears. This indicates "Non-Auto Reset" and does not need to be changed. It means that you can go past the preset number of revolutions eg: if set for 22 and you decide to do a few more turns to ensure bale is fully wrapped, you can do so without upsetting the programme.

Note: The act of tipping off the bale completes the programme of functions so if you are demonstrating how the unit works, always finish up by passing a magnet over the trip sensor when you will notice the display return to the preset figure in the right display and to  $\underline{0}$  in the left one.

Finally, to: lock all functions into the controllers memory, switch power off and back on again.



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## AUTOMATIC BALE WRAP CONTROLLER (issue 110 onwards)

The control unit on the 1996 Autowrap allows full automated control of the bale wrapping sequence. The control unit is preprogrammed to automatically wrap the bale to the required number of rotations. Once complete, the turntable stops in the correct position to allow the film to be cut and held. Incorporated is also an inching override facility on the control unit to move the turntable, left or right, to ensure that the film is properly gathered. Once the turntable is lowered it rotates automatically back through 90 degrees to facilitate loading the next bale. For reasons of safety loading and tipping off of the bale is operator controlled using switches on the control unit.

The programming of the Automatic Bale Wrap Controller is easily done by following the steps outlined below.

Once the unit is switched on, the number of required turntable rotations appears on the right hand display. To change this press and hold the "Hold to Set" button, see fig 7., then press the "Set/Reset" button. The first digit of the number will then blink and count from 0-9. Release the "Set/Reset" button at the required number. By pressing the "Set/Reset" again the second digit can be changed.

The monitor counts the number of bales per batch and the cumulative total. To see these, press the "bale count" button. The first number to appear is the batch total. If the button is held down for 10 seconds, a line will appear on the display, followed by the cumulative number wrapped. The batch count can be reset to 0 by holding the "Bale Count" button down and pressing the "Set/Reset" once. The cumulative total cannot be returned to zero.

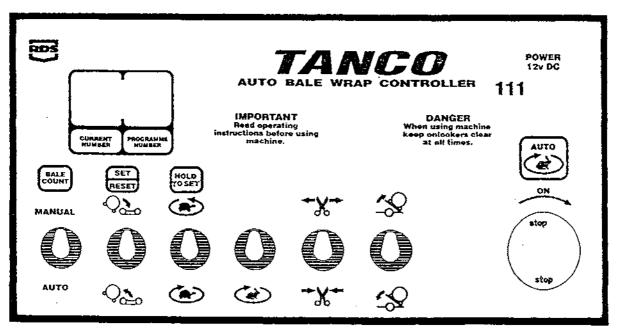


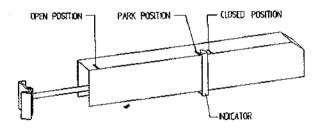
Fig. 7

## OPERATOR ACCESSIBLE MONITOR PROGRAMMES

The Auto Bale Wrap Controller displays a total of 7 programmes. To access the programming mode, turn the power off by pressing the red button, then press and hold the 'hold to set' key and turn the power on, by rotating the red button. Now you have accessed to the programming mode. A chevron 'V' will appear in the left side of the left display - this indicates the first function. By pressing the 'hold to set' key the next programme is accessed and so on. The chevron 'V' will move across the display indicating each of the 7 functions. The functions and settings are as follows.

Programme 1: Park Position
Display Reading: 5.5 Seconds

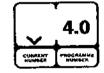
<u>Function:</u> This is the time required for the 'Cut and Start' Actuator to return from the 'Open' position to the 'Park' position (See Diagram).



Due to varied output from tractor batteries, this reading may have to be altered to ensure that the indicator arm stops at the 'park' position.

- (i) If the indicator arm passes the 'park' position, then reduce the value by 0.1 sec. Repeat this until correct.
- (ii) If the indicator arm does not reach the 'park' position, then increase the value by 0.1 seconds until corrected.

Programme 2: Tip up.
Display reading: 4.0

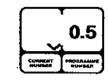


<u>Function</u>: This controls the time for which the tipping ram extends out after the 'Cut and Start' closes. **Note:** This value requires to be altered only when the setting of the rear magnet that impulses the tip sensor is changed.

- (i) If the magnet is adjusted upwards then this value will have to be increased.
- (ii) If the magnet is adjusted downwards then this value is decreased. Adjustment is in 0.5 second increments.

Programme 3: Tip up to tip down delay

Display reading: 0.5



<u>Function</u>: Duration in seconds that the tipping ram remains fully extended between tip up and tip down.

<u>Programme 4</u>: Tip down. <u>Display reading</u>: 4.8



<u>Function</u>: This controls the time required for the turntable to return to the horizontal position. **Note:** This value should be increased if the film pull down arm does not retract fully. Adjust in **0.1** increments.



<u>Programme 5</u>: Duration of slow rotation at end of wrapping cycle. <u>Display Reading</u>: 1.2

<u>Function</u>: Shows time that elapses in seconds after turntable magnet passes rotate sensor on last rotation before turntable changes to slow mode. **Note:** This value need only be altered as follows.

- (i) To increase duration of slow rotation at end of wrapping cycle, reduce this value in 0.1 increments.
- (ii) To reduce duration of slow rotation at end of wrapping cycle, increase this value in 0.1 increments.

Programme 6: Machine Operation.

There are <u>four</u> separate settings for this programme depending on the model of machine being used. Two of the settings apply to remote control models and two to non remote models.

Remote control mode with no 90 degrees reverse function
= Symbol r.



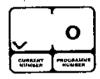
Remote control mode with 90 degrees reverse function = Symbol R.



Non remote control mode with no 90 degrees reverse = Symbol o.

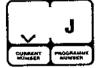


Non remote control mode with 90 degrees reverse = Symbol 0.



<u>Programme 7</u>: Tractor hydraulics.
Designed to convert the hydraulic system to open or closed centre hydraulics to suit tractor.

Closed centre = Symbol J



Open centre = Symbol n.



NOTE: An additional valve is required for operating in the J mode.

#### MODE OF OPERATION

## Automatic Mode: with switch in "Auto" Position.

- Ensure turntable is in correct position to accept bale and that film is gripped by the "Cut and Start".
- Lower bale lift arm, drive alongside, pick up the bale and raise the lift arm.
- 3. Allow the bale to roll gently onto the turntable so that it is central between the end rollers.
- 4. Lower the arm clear of the turntable and press the "Auto" (Start) button commence wrapping. NOTE: The table must be in the correct position before the "Auto" (Start) button is pressed. If not the table may stop in the wrong position at the end of wrapping.
- 5. With the controller in Automatic Mode the turntable will start off for half of one rotation in "Slow Mode" before changing to "Fast Mode". During the final rotation it will change to "Slow Mode" and stop in the correct position so that the film is lined up above the open "Cut and Start".
  NOTE: The turntable can be moved to left or right to align the "Cut and Start" by using the slow rotate switch on the controller or the buttons on the remote control unit.
- 6. On the third rotation of the wrap cycle the "Cut and Start" will open automatically. An indicator on the outside panel shows what stage the "Cut and Start" is at. On the ninth revolution the actuator will return to the "Park Position" indicating that the "Cut and Start" is ready to close. Note: The indicator must be at the "Park Position" in either Manual or Automatic Mode before the "Cut and Start" will close.
- 7. When in a safe position to do so, press the "Tip Up" button, the turntable will tip upwards gathering the film on the "Cut and Start" plunger whilst the pull down arm reduces the film to a rope which is cut as the "Cut and Start" snaps shut, releasing the bale but gripping the film end in readiness for the next bale.
- 8. The tip off sequence is automatic and once the turntable lowers it will reverse and stop in position to facilitate loading, if programmed to do so.

#### Manual Mode: with switch in "Manual" Position

- Load the bale as outlined above.
- 2. Using the slow rotation switch, start the wrapping cycle.
- After half of a rotation, switch to the fast wrapping mode by pressing the appropriate switch.
- 4. During the wrapping extend the "Cut and Start" out to the end mark and return the indicator to the "Park Position".
- 5. At the end of the wrap cycle line up the "Cut and Start" with the film.
- 6. When safe to do so, tip up the turntable until all the film is gathered on the "Cut and Start". Operate switch to close position, the "Cut and Start" will snap shut cutting the film. Continue tipping until the bale rolls off them lower the turntable.
- 7. Position the turntable to load the next bale.

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## OPERATING INSTRUCTIONS

- 1. Fit roll of film and thread through the Dispenser roller assembly by following the instruction label on the film mast.
- 2. Set the bale wrap indicator to the correct setting for the size of the bale being wrapped and the width of film being used. See Table 1 for list of some recommended setting.
- 3. Power down Lift Arm until wheel is clear of ground and adjust wheel outward to appropriate setting for bale weight.
- 4. Adjust tractor engine speed to give turntable speed of 16 30 r.p.m.
  NOTE: Speeds in excess of 30 r.p.m. will void warranty.
- 5. Position turntable with cut and start unit facing front of machine.
- 6. Attach film tag end to gripper section of cut and start unit.
- 7. Rotate turntable anticlockwise through 90 degrees and stop turntable with cut and start unit opposite to lift arm.
- 8. Locate bale on Lift arm, then raise lift arm and gently roll bale onto turntable. Lower arm.
- 9. Start wrapping, turntable rotating clockwise. Film tension is automatically set so that width of film applied to the bale stays at approx width of 400 mm for 500mm wide film roll and 600 mm for 750mm wide film roll.
- 10. Continue wrapping until signal from bale wrap indicator sounds (required number of revolutions has been reached). Then stop with cut and start unit facing towards front of machine and film aligned with gripper section of cut and start unit.
- 11. Tip bale from machine. When the machine is almost fully tipped the cut and start unit grips and cuts the film and the bale is then unloaded onto the bale ramp.
- 12. Lower the turntable and rotate anticlockwise through 90 degrees and stop with cut and start unit opposite to lift arm.
- 13. Repeat operations 7 12 as required.

NOTE: The film end need only be attached at the start of a roll, after that the sequence is automatic.

## WARNING LIFT ARM

The Lift Arm on the trailed machine is designed to pick up and deposit bales onto the turntable prior to wrapping and to raise the machine while empty, to facilitate adjustment to sliding axle. It is not intended to be used for transporting bales over distances or for use as a stabiliser whilst wrapping.

Therefore, any use of the lift arm outside its primary function will be deemed to be abuse and will void all warranty.

## FILM OVERLAP SYSTEM.

The Autowrap is fitted as standard with the  $2 \times 2 \times 50\%$  film overlap system. This is achieved by means of a chain drive which ensures that the correct number of film layers are applied to the bale after a specific number of revolutions of the turntable. The number of revolutions required to wrap a bale depends on width of film being used and bale size - See Table 1 below. The chain to be positioned on inner sprockets for 750mm wide film and on outer sprockets for 500mm wide film. See fig. A below.

For silage bales we recommend the application of a minimum of four layers of film.

Table 1

| Bale Size     | Width of Film Roll Bale Indi<br>(Re                                       |             |
|---------------|---|-------------|
| 120cm x 120cm | 500mm 25  | •           |
| 120cm x 120cm | 750mm 17  |             |
| 120CM x 137cm | 500mm 28  |             |
| 120CM x 137cm | 750mm 19  |             |
| 120CM x 150cm | 500mm 31  |             |
| 120CM x 150cm | 750mm 21  |             |
|               | ~~~   |             |
|               | DRIVEN ROLLER   |             |
|               |   |             |
|               |   |             |
|               |   |             |
|               |   |             |
|               | 13 TOOTH X 3/4" PITCH I LIK TOOTH X 3/4" PITCH SPROOKET SPROOKET SPROOKET | <u>₩</u>    |
|               | - SÉARBOX   |             |
|               | DRIVEN ROLLER   |             |
|               |   |             |
|               |   |             |
|               |   | •           |
|               |   | _           |
|               |   | <del></del> |
|               | <del>                                    </del>                           |             |
| TATODERAND    | 19 TOUTH x 3/4" PATCH   | r FIG. A    |

IMPORTANT

The above recommendations are only offered as a guide to correct wrapping of silage bales and the manufactures accept no responsibility for variations that may arise and the consequence of same. They are based upon turntable speeds of up to 25 r.p.m., and a approx film width of 400mm applied to end of Bale when using 500mm wide film roll or a approx film width of 600mm applied to end bale when using 750mm wide film roll.

It is the responsibiltiy of the operator to ensure the correct number of wraps are applied, as variances can occur with fluctuations in speed of rotation, film quality and tensioning, shape and density of bale etc.

## SERVICE AND MAINTENANCE

- 1. All nuts and bolts should be tightened after some hours in use and thereafter regularly.
- Wheel pressure should be normally kept at 42 psi depending 2. on bale weight and field conditions.
- 3. Inspect moving parts for wear on daily basis.

4.

grease every 24 hours.

grease every 24 hours. grease sparingly each

Gearbox oil level Check every 4000-5000

bales.

5. <u>Adjustments</u>

> Turntable Drive chain : Adjust after first days work then

> > check/adjust every 50 hours.

See Fig. 8.

Adjust after first days work then Gearbox Drive chain

check/adjust every 50 hours.

See Fig 2.

Roller Drive chain Adjust after first days work then

check/adjust every 50 hours

See Fig 3.

Main Bale Belt See belt tracking instuction.

Film Dispenser 6.

> Fit with marked gearbox at top. Apply one shot of EPO type Grease

Wash rollers often to avoid build up of Tack from film

using petrol.

Follow Film threading diagram. See Fig 1.

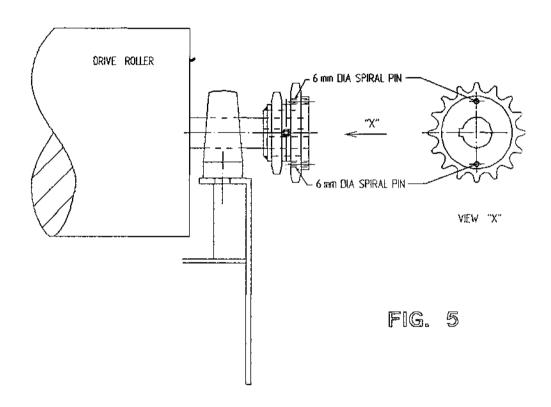
7. Film Adjustment

Centre of film roll must be in line with centre of bale and film mast should be vertical.

## 8. Shear Pins

There are two shear pins fitted to sprocket assembly on drive roller see fig 5. If the pins shear, remove the broken pins re-align holes and fit two replacement spiral pins, 6mm dia x 20mm long, Din 7343. There are two spare shear pins attached to inside of chain guard.

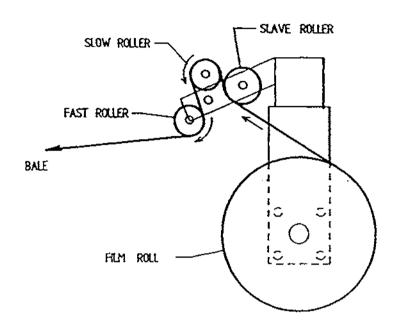
NOTE: If shear pins are replaced with other than specified above all warranty is null and void.



## SERVICE AND MAINTENANCE (CNT.) HYDRAULIC FILTER

- Before connecting Autowrap to tractor, change oil in tractor hydraulic system and replace hydraulic filter.
- 2. After 25 hours max. it will be necessary to replace the element in Autowrap filter.
- 3. For maintenance purposes it is necessary to change the element after 200 working hours.
- 4. The element cannot be just cleaned and put back into the filter.

## TANCO AUTOWRAP FILM THREADING DIAGRAM



FILM ADJUSTMENT

CENTRE OF FILM ROLL MUST BE IN LINE WITH CENTRE OF BALE AND FILM MAST SHOULD BE VERTICAL

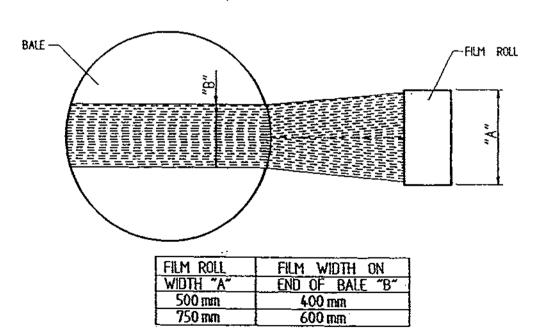
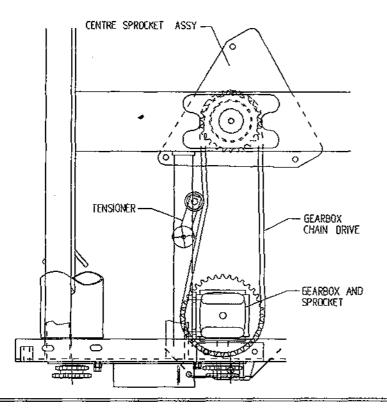


Fig. 1

FILE NAME W068-LA21

## TANCO AUTOWRAP CONSTANT INDEXING

GEARBOX CHAIN DRIVE TENSIONING SYSTEM (1996)



CHAIN TENSIONING PROCEDURE

- 1 LOOSEN M 10 BOLT SECURING CHAIN TENSIONER.
- TENSION CHAIN BY ADJUSTING TENSIONER USING SPANNER IN DIRECTION OF ARROW "X" UNTIL SETTING OF 15"-20 IS REACHED.
- 3. RE-TIGHTEN M10 BOLT TO SECURE TENSIONER IN POSITION.

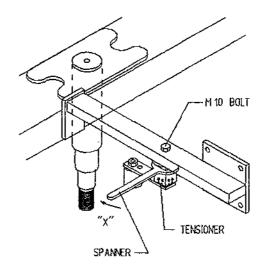
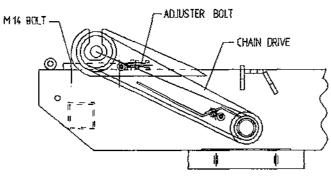


Fig. 2



ROLLER CHAIN DRIVE TENSIONING SYSTEM

CHAIN TENSIONING PROCEDURE

- 1. LOOSEN M 14 BOLTS SECURING BEARING.
- TENSION CHAIN BY LOOSENING LOCKING NUT AND TURNING ADJUSTER BOLT CLOCKWISE TO TAKE UP SLACK IN CHAIN. SECURE IN POSITION WITH LOCKING NUT. ENSURE EQUAL ADJUSTMENTS ARE MADE ON BOTH SIDES.
- RE-TIGHTEN M 14 BOLTS SECURING BEARINGS TO 170 Nm. (125 FT. lbs.).

FILE NAME WD66 - LA6

## TANCO AUTOWRAP 1996 MODEL TURNTABLE CHAIN DRIVE TENSIONING SYSTEM

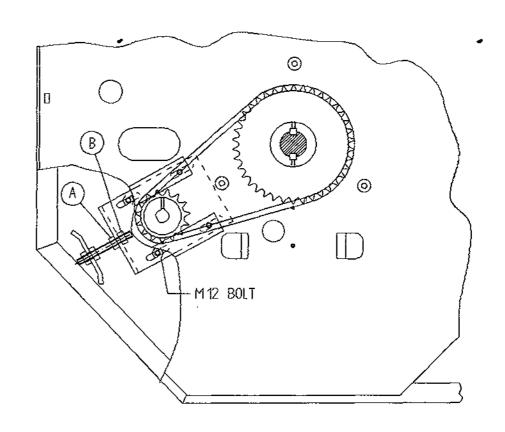
## TENSIONING PROCEDURE

- 1. TIP UP MACHINE AND SUPPORT WITH A PROP.
- 2. REMOVE CHAIN GUARD.
- 3. SLACKEN M12 CLAMPING BOLTS SLIGHTLY.
- 4. SLACKEN LOCKNUT A.
- 5. ADJUST NUT B UNTIL THERE IS 8 mm 10 mm DEFLECTION ON CHAIN.

NOTE WARNING:

DO NOT OVER TENSION CHAIN AS MOTOR WILL BE DAMAGED

- 6. TIGHTEN LOCKNUT A.
- 7. TIGHTEN M 12 CLAMPING BOLTS.
- 8. REFIT CHAIN GUARD.



### FILM ADAPTOR

#### OPERATING INSTRUCTION

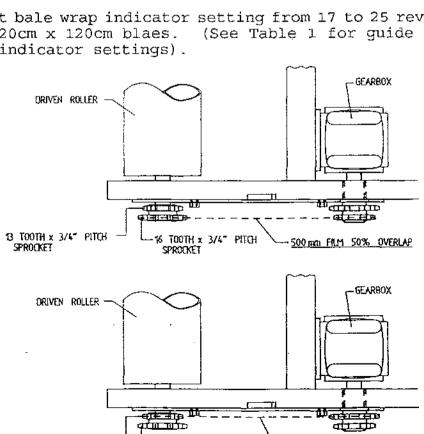
500mm wide film rolls are used as standard on 250, 350, & 450 Autowrap Models while 750mm wide film rolls are used as standard on 550 model. If however, it is found necessary to use 500mm wide rolls along with 750mm film dispenser the following instructions must be adhered to: (NOTE: Failure to do so will result in inadequate wrapping and bale spoilage).

- Fit film adaptor to top end 1. of 500mm wide film roll as shown opposite.
- 2. Remove drive chain from inner set of sprockets and fit to outer set of sprockets as shown in Fig. below.

B TOOTH x 3/4" PITCH

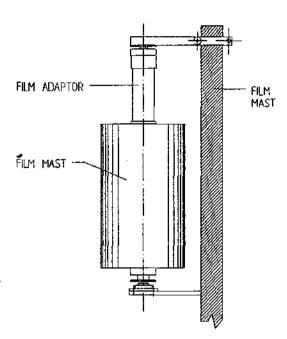
**SPROCKET** 

- 3. Re-tension chain.
- Adjust height of film mast so that centre of film roll is 4. in line with centre of bale on the turntable.
- Adjust bale wrap indicator setting from 17 to 25 revolutions 5. for 120cm x 120cm blaes. (See Table 1 for guide to bale wrap indicator settings).



16 TOOTH x 3/4" PITCH

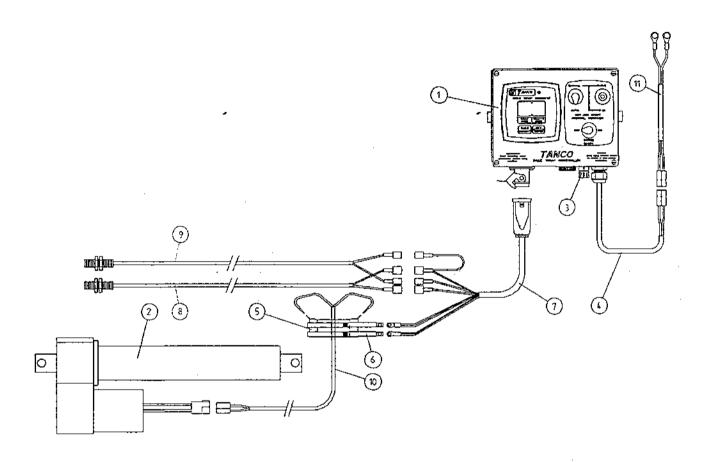
750 mm FELM 50% OVERLAP



## 9227R

## TANCO AUTOWRAP 250SL/450S/550S/1060S/1260S

## ELECTRICAL COMPONENTS

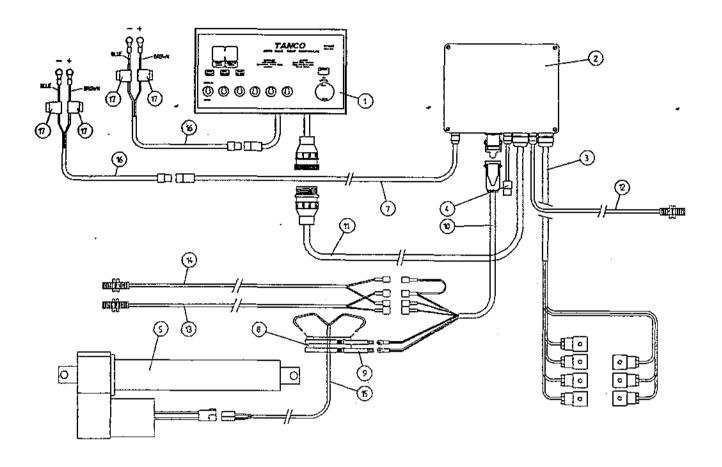


## PARTS LIST

| ITEM NO. | DESCRIPTION                      | QTY | PART-NO   |
|----------|----------------------------------|-----|-----------|
| 1.       | CONTROL BOX                      | 1   | D6049     |
| 2.       | WARNER LINEAR ACTUATOR           | 1   | ZD605-510 |
| 3.       | 1 1/4" FUSE HOLDER               | 1   | ZD606-100 |
| 4.       | MAIN FLY LEAD FOR CONTROLLER     | 1   | ZD606-060 |
| 5.       | SLIP RING ASSY.                  | 1   | ZD605-308 |
| 6.       | BRUSHES                          | 2   | ZD605-302 |
| 7.       | 7 CORE CABLE C/W HEARTING PLUG   | 1   | D605-7C   |
| 8.       | ROTATING SENSOR                  | 1   | ZD606-RS  |
| 9.       | TIP SENSOR                       | 1   | ZD606-TS  |
| 10.      | TWO CORE CABLE FOR SLIP RING     | 1   | D605-02C  |
| 11       | MAIN BATTERY LEAD FOR CONTROLLER | 1   | ZD606-030 |

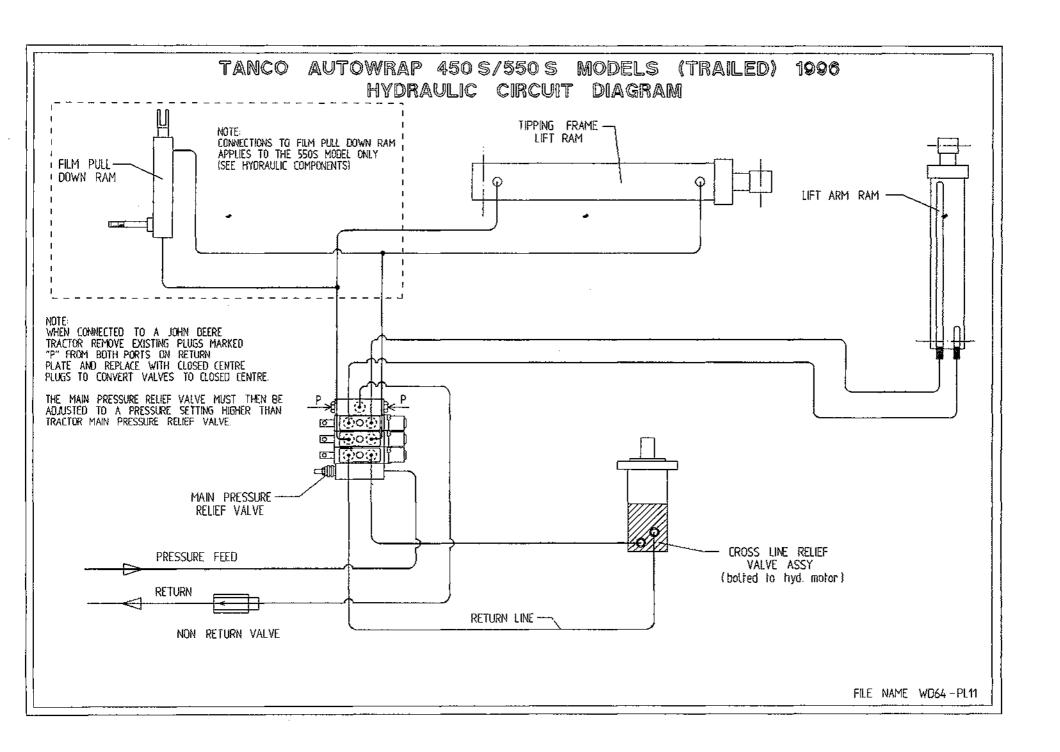
## 9227G

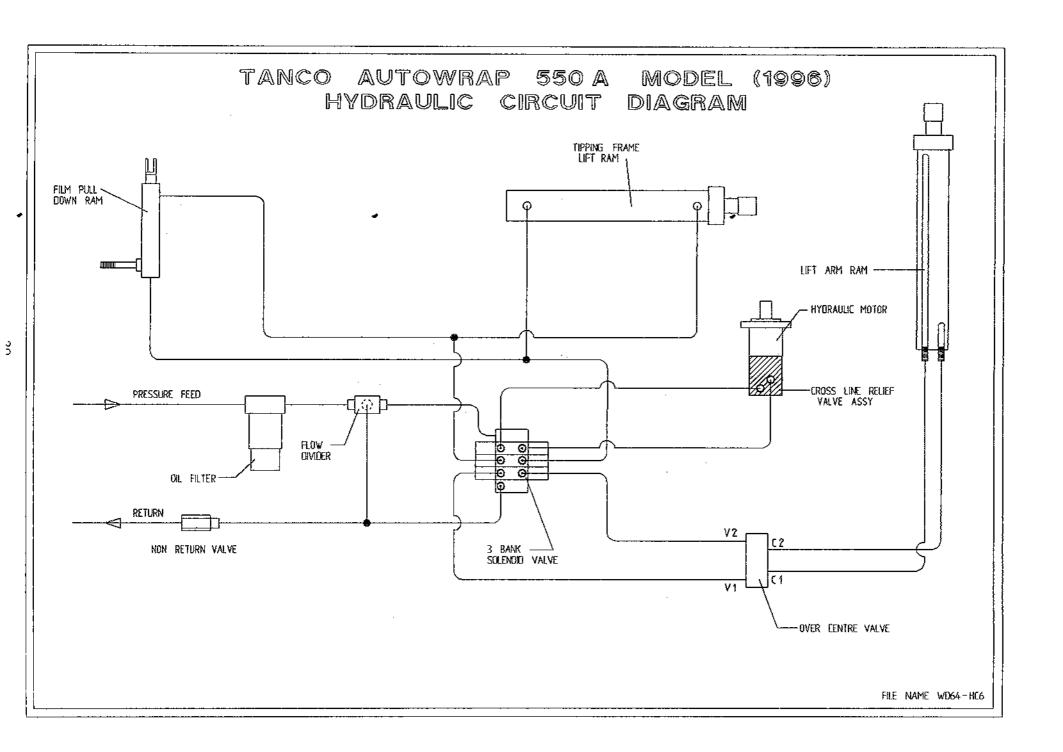
# TANCO AUTOWRAP 550A/1060A MODELS ELECTRICAL COMPONENTS

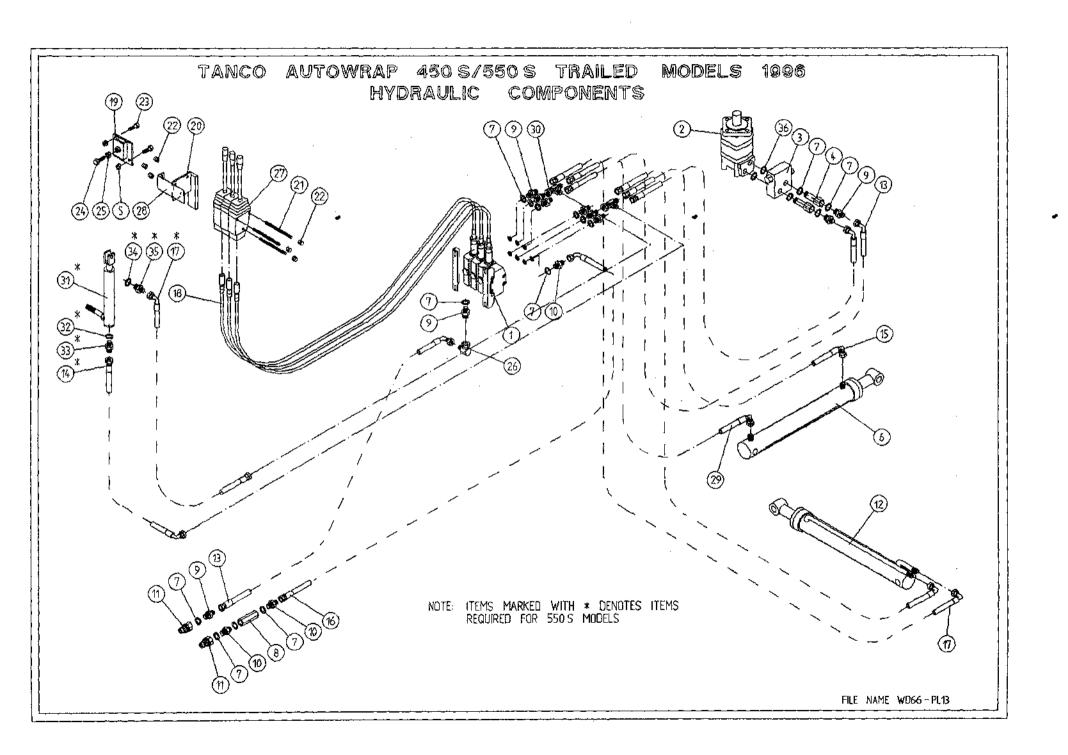


PARTS LIST

| ITEM NO | DESCRIPTION                      | QTY | PART-NO   |
|---------|----------------------------------|-----|-----------|
| 1.      | CONTROL BOX                      | 1   | D606      |
| 2.      | JUNCTIN BOX (3BANK SPOOL VALVE)  | 1   | ZDG-JB3   |
| 3.      | LOOM FOR VALVE C/E HIRSCHMAN     | 1   | ZD606-082 |
| 4.      | SYSTEM PRESSURE LEAD             | 1   | ZD606-070 |
| 5.      | WRANER LINEAR ACTUATOR           | 1   | ZD605-510 |
| 6.      | 1 1/4" FUSE HOLDER               | 1   | ZD606-100 |
| 7.      | MAIN LEAD FOR JUNCTION BOX       | 1   | ZD606-050 |
| 8.      | SLIP RING ASSY                   | 1   | ZD605-308 |
| 9.      | BRUSHES                          | 1   | ZD605-302 |
| 10.     | 7 CORE CABLE C/W HEARTING PLUG   | 1   | D605-7C   |
| 11.     | 24 CORE INTERCONNECTING LEAD C/W | 1   | D605-24C  |
|         | CONNECTORS                       |     |           |
| 12.     | LIFT ARM SENSOR                  | 1   | ZD606-LAS |
| 13.     | ROTATING SENSOR                  | 1   | ZD606-RS  |
| 14.     | TIP SENSOR                       | 1   | ZD606-TS  |
| 15.     | TWO CORE CABLE FOR SLIP RING     | 1   | D605-02C  |
| 16.     | MAIN BATTERY LEAD                | 2   | ZD606-030 |
| 17      | IN-LINE FUSE                     | 4   | ZD606-100 |







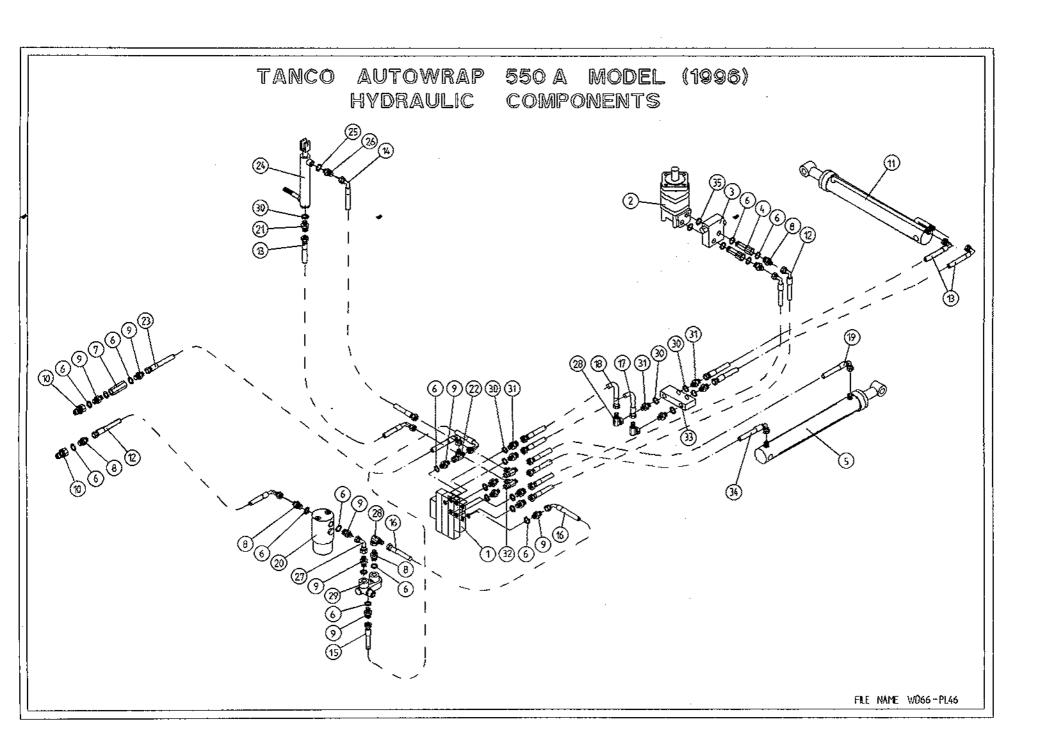
## WD66-PL13

## TANCO AUTOWRAP 450 S/550 S MODELS (TRAILED) 1996 HYDRUALIC COMPONENTS (DIN)

## PARTS LIST

| ITEM NO. | DESCRIPTION                                      | QTY. | PART-NO       |
|----------|--|------|---------------|
| 1        | 3 BANK SPOOL VALVE (DIN)                         | 1    | Z01-03-018D   |
| 2        | HYDRAULIC MOTOR (C.L)                            | 1    | Z01-02-RF200  |
| 3        | CROSS LINE RELIEF VALVE                          | 1    | Z01-03-004    |
| 4        | 1/2" BSP BOTTOM BANJO BOLT (SPECIAL)             | 2    | Z01-03-002B   |
| 5        | M10 LOCKNUT                                      | 3    | Z23-10        |
| 6        | HYD. RAM (FOR TIPPING FRAME)                     | 1    | Z01-01-AR687  |
| 7        | 1/2" DOWTY WASHER                                | 18   | Z01-04-03     |
| 8        | 1/2" NON RETURN VALVE                            | 1    | Z01-03-017    |
| 9        | 1/2" x 3/8" ADAPTOR                              | 10   | Z01-06-06-08  |
| 10       | 1/2" x $1/2$ " ADAPTOR                           | 3    | Z01-06-08-08  |
| 11       | 1/2" MALE END Q/R COUPLING                       | 2    | Z01-15-081    |
| 12       | HYD. RAM (FOR LIFT ARM)                          | 1    | Z01-01-AW     |
| 13       | 108". ST/90 3/8" D/W HOSE                        | 3    | Z38-R2-108-S9 |
| 14       | 72" ST/90 3/8" D/W HOSE                          | 1    | Z38-R2-72-S9  |
| 15       | 48" ST/90 3/8" D/W HOSE                          | 1    | Z38-R2-48-S9  |
| 16       | 108" ST/90 1/2" S/W HOSE                         | 1    | Z12-R1-108-S9 |
| 17*      | 84" ST/90 3/8" D/W HOSE                          | 2    | Z38-R2-84-S9  |
| 18       | 3 1/2" METER ACTUATOR CABLES                     |      | Z004-03-0075  |
| 19       | ACTUATOR MTG. BRACKET (LOWER)                    | 1    | WD65-AML      |
| 20       | ACTUATOR MTG. BRACKET (UPPER)                    | 1    | WD65-AMÜ      |
| 21       | TIE BOLT (M8 x 150mm LONG)                       | 3    | WSB150        |
| 22       | M8 DOMED NUT                                     | 6    | Z18-08D       |
| 23       | M10 HEX HD. SETS x 40mm LONG                     | 3    | Z26-064S      |
| 24       | M12 HEX HD. SET x 40mm LONG                      | 1    | Z26-084S      |
| 25       | M12 HEX NUT                                      | 1    | Z18-12        |
| 26       | 3/8" MALE x $3/8$ " FEMALE 90 ELBOW              | 1    | Z01-14-015    |
| 27       | ACTUATOR LEVERS                                  | 3    | Z004-03-009   |
| 28       | STICKER MOUNTING PLATE                           | 1    | WD60-794      |
| 29       | 30" ST/90 3/8" D/W HOSE                          | 1    | Z38-R2-30-S9  |
| 30*      | 3/8" FEMALE x 3/8" MALE/MALE "T" PIECE           | 2    | Z01-12-002    |
| 31*      | HYDRAULIC RAM D/A                                | 1    | Z01-01-AW25   |
| 32*      | 3/8" DOWTY WASHER                                | 1    | Z01-04-02     |
| 33*      | 3/8" x 3/8" ADAPTOR FITTED WITH 0.06" RESTRICTOR | 1    | Z01-03-40     |
| 34*      | 1/4" DOWTY WASHER                                | 1    | Z01-04-01     |
| 35*      | 1/4" x 3/8" ADAPTOR                              | 1    | Z01-06-04-06  |
| 36       | COPPER WASHER                                    | 2    | 201-04-15     |

<sup>\*</sup> DENOTES ADDITIONAL ITEMS REQUIRED FOR 550S MODELS



#### WD66-PL46

#### TANCO AUTOWRAP 550A MODEL (1996)

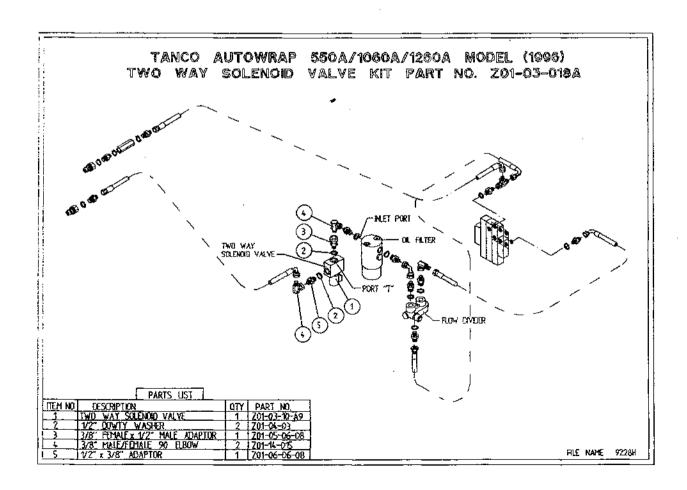
#### HYDRAULIC COMPONENTS

| ITEM NO.    | DESCRIPTION                                       | QTY    | PART-NO.      |
|-------------|---|--------|---------------|
| 1.          | 3 BANK SOLENOID VALVE                             | 1      | Z01-03-10-A3  |
| 2.          | HYDRAULIC MOTOR C.L.                              | 1      | Z01-02-RF200  |
| 3.          | CROSS LINE RELIEF VALVE                           | 1      | Z01-03-004    |
| 4.          | 1/2" B.S.P. BOTTOM BANJO BOLT (SPECIAL)           | 2      | Z01-03-002B   |
| 5.          | HYDRULIC RAM (TIPPING FRAME)                      | 1      | Z01-01-AR687  |
| 6.          | 1/2" DOWTY WASHER                                 | 13     | Z01-04-03     |
| 7.          | 1/2" NON RETURN VALVE                             | 1      | Z01-03-017    |
| 8.          | 1/2" X 3/8" ADAPTOR                               | 5      | Z01-06-06-08  |
| ·9.         | 1/2" X 1/2" ADAPTOR                               | 7      | Z01-06-08-08  |
| 10.         | 1/2" MALE END Q/R COUPLING                        | 2      | Z01-15-081    |
| 11.         | HYD. RAM (FOR LIFT ARM)                           | 1<br>3 | Z01-01-AW     |
| 12.         | 108" ST/90 3/8" D/W HOSE                          | 3      | Z38-R2-108-S9 |
| 13.         | 72" ST/90 3/8" D/W HOSE                           | 3      | Z38-R2-72-S9  |
| 14.         | 84" ST/90 3/8" D/W HOSE                           | 1      | Z38-R2-84-S9  |
| 15.         | 24" ST/90 1/2" D/W HOSE                           | 1      | Z12-R2-24-S9  |
| 16.         | 34" ST/90 1/2" D/W HOSE                           | 1      | Z12-R2-34-S9  |
| 17.         | 12" ST/ST 3/8" D/W HOSE                           | 2      | Z38-R2-12-SS  |
| 18.         | 9" ST/ST 3/8" D/W HOSE                            | 1      | Z38-R2-9-SS   |
| 19.         | 48" ST/90 3/8" D/W HOSE                           | 1      | Z38-R2-48-S9  |
| 20.         | FILTER  | 1      | Z01-24-08     |
| 21.         | 3/8" X 3/8" ADAPTOR FITTED WITH 0.06" RESTRICTOR. | 1      | Z01-03-40     |
| 22.         | 1/2" MALE X 1/2" MALE X 1/2" FEMALE               |        | •             |
|             | "T" PIECE   | 1      | Z01-12-003    |
| 23.         | 108" ST/90 1/2" D/W HOSE                          | 1      | Z12-R2-108-S9 |
| 24.         | HYD. RAM D/A (PULL DOWN ARM)                      | 1      | Z01-01-AW25   |
| <b>2</b> 5. | 1/4" DOWTY WASHER                                 | 1      | Z01-04-01     |
| 26.         | 1/4" X 3/8" ADAPTOR                               | 1      | Z01-06-04-06  |
| 27.         | 1/2" FEMALE X 1/2" FEMALE 90 ELBOW                | 1      | Z01-14-018    |
| 28.         | 3/8" MALE/FEMALE 90 ELBOW                         | 4      | Z01-14-015    |
| 29.         | IN LINE FLOW DIVIDER                              | 1      | Z01-03-10-A6  |
| 30.         | 3/8" DOWTY WASHER                                 | 11     | Z01-04-02     |
| 31.         | 3/8" X 3/8" ADAPTOR                               | 10     | Z01-06-06-06  |
| 32.         | 3/8" MALE X 3/8" MALE X 3/8" FEMALE               |        |               |
|             | "T" PIECE   | 2      | Z01-12-002    |
| 33.         | OVER CENTRE VALVE                                 | 1      | Z01-03-10-A8  |
| 34.         | 30" ST/90 3/8" D/W HOSE                           | 2      | Z38-R2-30-S9  |
| 35.         | COPPER WASHER                                     | 2      | Z01-04-15     |

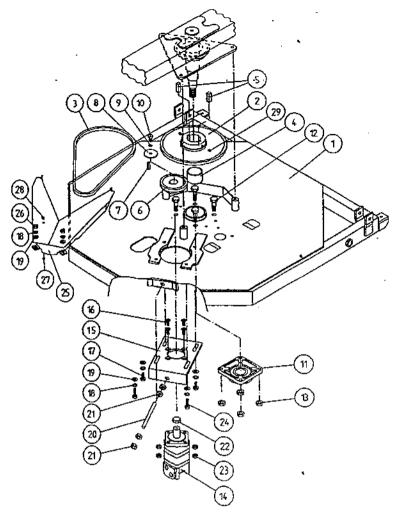
INSTRUCTION FOR FITTING TWO WAY SOLENOID VALVE CLOSED CENTRE CONVERSION KIT TO TANCO AUTOWRAP 550A, 1060A, 1260A MODELS.

REQUIRED WHEN OPERATING MACHINES ON TRACTORS WITH CLOSED CENTRE HYDRAULIC SYSTEMS.

- 1. Disconnect st/90 hose from inlet port on oil filter.
- 2. Connect port "T" on solenoid valve assembly to inlet port on oil filter.
- 3. Reconnect st/90 hose to port "P" on solenoid valve.
- 4. Connect 2 pin female connector to existing 2 pin connector at junction box.
- 5. Change the seventh controller function setting from n to J. See instruction manual for further information.



#### TANCO AUTOWRAP 1996 MODEL TURNTABLE CHAIN DRIVE ASSEMBLY



PARTS LIST

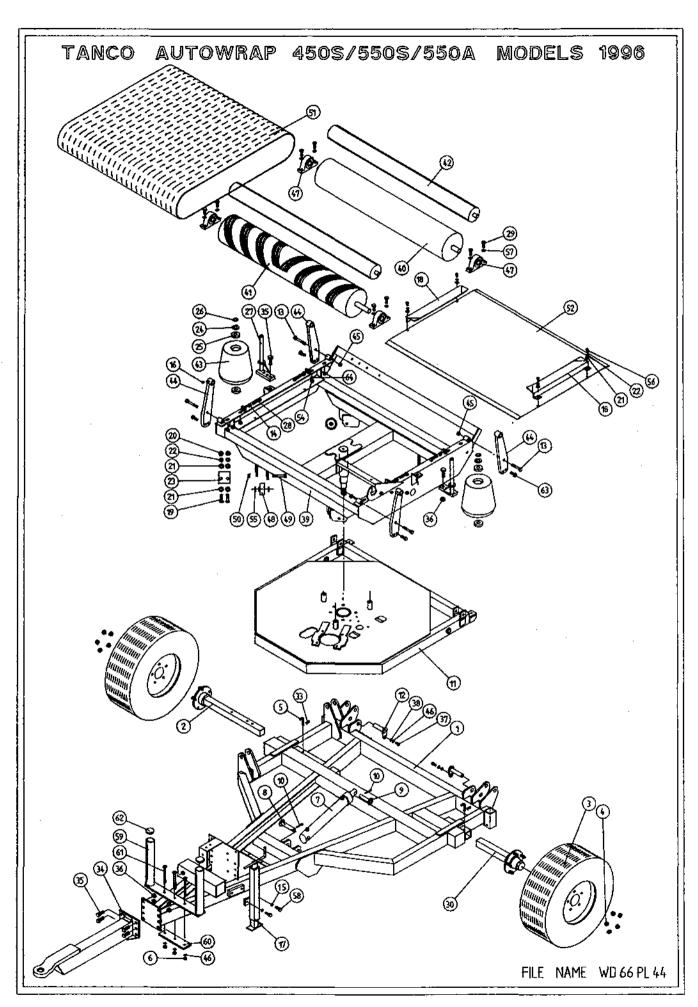
| ITEM NO | DESCRIPTION                    | QTY | PART NO        |
|---------|--------------------------------|-----|----------------|
| 1       | TIPPING FRAME ASSY             | 1   | WD64-TF        |
| 2       | 38 TOOTH x 1" PITCH SPROCKET   | 1   | Z06-D64-38     |
| 3       | CHAIN 1" PITCH x 54 PITCHES    | 1   | Z09-AW6        |
| 4       | SPINDLE SPACER                 | 1   | WD64-046       |
| 5       | KEY 5/8" SQ x 50mm LONG        | 2   |                |
| 6       | 15 TOOTH x 1" PITCH SPROCKET   | 1   | Z06-I60-046    |
| 7       | KEY 5/16" SQ x 45mm LONG       | 1   | WD64-053       |
| 8       | LOCKING COLLAR                 | 1   | WD623-071      |
| 9       | 10mm DIA SPRING WASHER         | 1   | Z12-02-10      |
| 10      | 3/8" UNC HEX HD SET x 1" LONG  | 1   | Z27-023S       |
| 11      | 2" DIA FLANGE BEARING          | 1   |                |
|         | C/W CAM LOCK COLLAR            | 1   | Z06-49EC       |
| 12      | 5/8" UNF HEX HD SET x 2" LONG  | 4   | Z31B-064       |
| 13      | 5/8" UNF LOCKNUT               | 4   | Z20-10         |
| 14      | HYDRAULIC MOTOR                | 1   |                |
| 15      | HYDRAULIC MOTOR MOUNTING PLATE | l   | WD64-001       |
| 16      | M12 x 50mm ALLEN HD C/S SCREW  | 4   | Z13-5-12X50    |
| 17      | M12 HEX HD SET x 30mm LONG     | 4   | Z26-082S       |
| 18      | 12mm DIA SPRING WASHER         | 6   | Z12-02-12      |
| 19      | 12mm DIA FLAT WASHER           | 6   | Z10-02-12      |
| 20      | M16 THREADED BAR x 150mm LONG  | 1   | WD64-038       |
| 21      | M16 HEX NUTS                   | 4   | <b>Z18-16</b>  |
| 22      | SPACER                         | 1   | WI60-093       |
| 23      | M12 LOCKNUTS                   | 4   | <b>Z2</b> 3-12 |
| 24      | M12 HEX HD SET x 50mm LONG     | 2   | Z26-086S       |
| 25      | DRIVE CHAIN GUARD              | 1   | WD66-DCG       |
| 26      | M12 HEX NUT                    | 2   | Z18-12         |
| 27      | M6 HEX NUT                     | 1   | Z18-06         |
| 28      | M6 90 DEGREE GREASE NIPPLE     | 1   | <b>239-65</b>  |
| 29      | M12 GRUB SCREW x 16mm LONG     | 2   | Z28-012 '      |

#### WD66-PL6

## TANCO AUTOWRAP CONSTANT INDEXING DRIVE ASSEMBLY 1996

| ITEM NO. | DESCRIPTION  | QTY.        | PART-NO           |
|----------|--|-------------|-------------------|
| 1        | TURNTABLE ASSY.  | 1           | WD66-TA           |
| 2        | TIPPING FRAME ASSY.  | 1           | WD64-TF           |
| 3        | DRIVE ROLLER ASSY.   | 1           | WD66-BRD          |
| 4        | GEAR BOX   | 1           | <b>Z01-25-300</b> |
| 5        | M12 HEX HD SET x 30mm LONG                                     | 4           | Z26-082S          |
| 6        | 12mm DIA SPRING WASHER   | 7           | Z12-02-12         |
| 7        | CHAIN TENSIONER  | 1           | WD60-CT           |
| 8        | CENTRE SPROCKET ASSY 27 TOOTH                                  | 1           | WD64-CSA          |
| 9        | M12 HEX HD SET x 25mm LONG                                     | 1<br>3      | Z26-081S          |
| 10       | 46 TOOTH SPROCKET  | 1           | Z06-D64-46S       |
| 11       | M10 HEX HD SET x 25mm LONG                                     | 1           | Z26-0611S         |
| 12       | 10mm DIA SPRING WASHER   | 4           |                   |
| 13       | RETAINING COLLAR   | 1           |                   |
| 14       | CHAIN 3/4" PITCH X 87 PITCHES                                  | 1           | Z09-AW-5          |
| 15       | ROSTA TENSIONING UNIT ARM                                      | 1           | <b>Z</b> 06-454   |
| 17       | M10 HEX HD BOLT x 65mm LONG                                    | 1           | Z26-0671B         |
| 19       | M10 LOCKNUT  | 1           | Z23-10            |
| 20       | SPROCKET DOUBLE SIMPLEX 13T/16T KEYED                          |             | Z06-D64-1316K     |
| 21       | SPROCKET DOUBLE SIMPLEX 13T/16T SPLINED                        | 1           | Z06-D65-1316S     |
| 22       | KEY 5/16" x 5/16" x 32mm LONG                                  | 1           | WD623-K32         |
| 23       | KEY 5/16" x 5/16" x 32mm LONG<br>CHAIN 3/4" PITCH X 62 PITCHES | 1           | Z09-AW-3          |
| 24       | 1/2" DIA STAR WASHER   | 2           | Z10-01-121        |
| 26       | CHAIN GUARD  | 1           | WD60-CGC          |
| 27       | M10 HEX HD SET x 70mm LONG                                     | 2           | Z26-068B          |
| 28       | 10mm DIA FLAT WASHER   | 2           | Z10-02-10         |
| 29       | M10 HEX HD SET x 30mm LONG                                     | 2           | Z26-062S          |
| 30       | CHAIN STRIPPER   | 1           | WD66-053          |
| 31       | M10 CUP SQ. SCREW x 30mm LONG                                  | 1           | Z13-112           |
| 32       | M10 HEX NUT  | 1           | Z18-10            |
| 34*      | MAGNET   | 2           | D6043             |
| 35*      | M6 CSK HD SET x 35mm LONG                                      | 2<br>2<br>2 | Z13-132           |
| 36*      | 6mm DIA FLAT WASHER  |             | Z11-02-06         |
| 37*      | M6 LOCKNUT   | 2           | Z23-06            |
| 38       | SPIRAL PIN   | 2           | Z03-23-062        |

<sup>\*</sup> DENOTE ADDITIONAL ITEMS REQUIRED FOR AUTOMATIC MACHINES

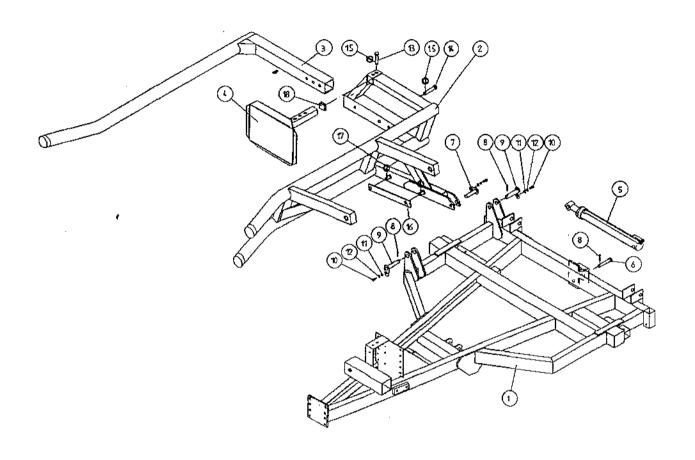


# WD66-PL44 TANCO AUTOWRAP 450s/550s/550A MODELS (TRAILED) 1996 PARTS LIST

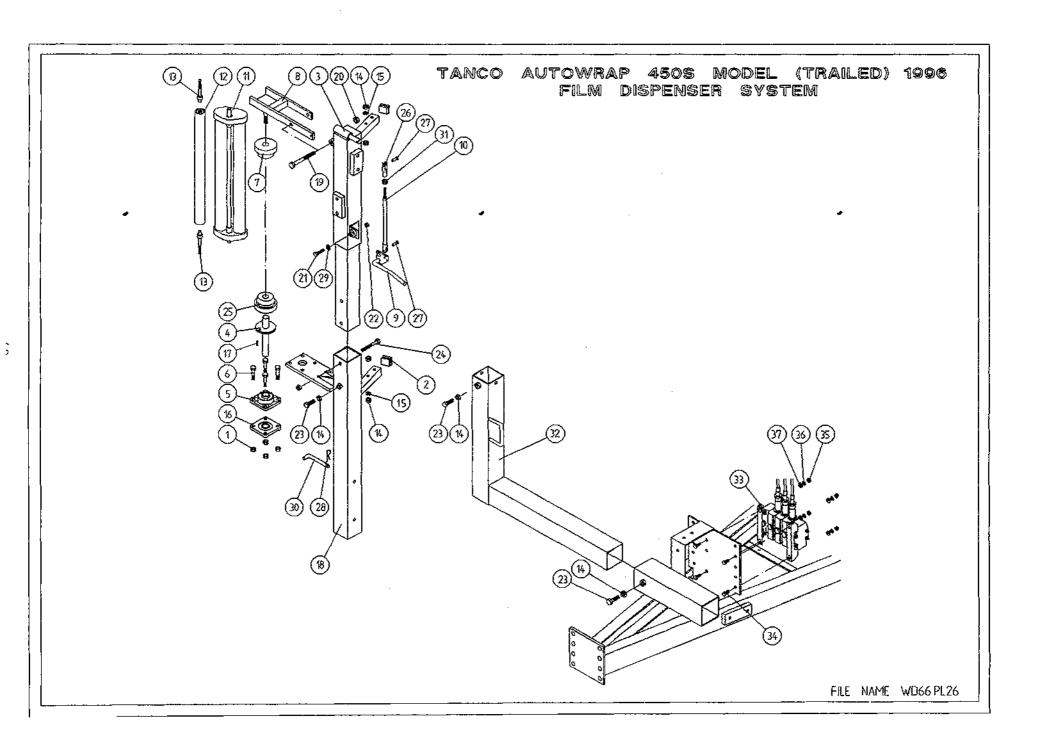
| ITEM         | DESCRIPTION                                | QTY    | PART-NO.     |
|--------------|--|--------|--------------|
| 1.           | CHASIS ASSY                                | 1      | WD66-CHA     |
| 2.           | STUB AXLE (LONG)                           | 1      | 204-033      |
| 3.           | WHEELS                                     | 2      | Z04-03       |
| 4.           | WHEELS NUTS                                | 10     | M22AWNA      |
| 5.           | BISSEL PIN                                 | 2      | Z03-22-AW82  |
| 6.           | M10 HEX NUT                                | 3      | Z18-10       |
| 7.           | HYD. RAM                                   | 1      | Z01-01-AR687 |
| 8.           | RAM. BOTTOM PIVOT PIN                      | 1      | 203-02-330   |
|              | RAM TOP PIVOT PIN                          | 1      | Z03-03-50    |
|              | 2" X 1/4" SPLIT PIN                        | 2      | Z03-21-29    |
| 17           | TIPPING FRAME ASSY                         | ĩ      | WD64-TF      |
| 12.          | TIPPING FRAME PIVOT PIN C/W GREASE         | 2      | 203-01-9055  |
| 12.          | NIPPLE                                     | 2      | Z39-60       |
| 12           | M12 HEX HD BOLT X 80MM LONG                | 4      | Z26-0901B    |
|              | M12 HEX NUT                                | 4      | Z16-12       |
|              | 12MM DIA SPRING WASHER                     | 2      | Z12-02-12    |
|              | 1/8" B.S.P. ST GREASE NIPPLE               |        |              |
|              |  | 4      | Z39-60       |
|              | SCREW JACK ASSEMBLY                        | 1      | WD60-JA      |
|              | BELT GUIDE ASSY                            | 2      | WD66-BG      |
|              | M8 HEX HD SETS X 20MM LONG                 | 4      | Z26-039S     |
|              | M8 HEX NUTS                                | 14     | Z18-08       |
|              | 8MM DIA FLAT WASHERS (MUD FLAP)            | 8      | Z11-02-081   |
|              | 8MM DIA SPRING WASHERS                     | 12     | Z12-02-08    |
| 23.          | SCRAPER                                    | 2      | WD60-711     |
| 24           | THRUST WASHER                              | 2      | WD60-292     |
| 25.          | BEARING (25MM I.D.)                        | 4      | Z06-AWRB-93  |
| 26.          | CIRCLIP                                    | 2      | Z28-525      |
| 27.          | END ROLLER MOUNTING BRACKET                | 2      | WD66-ERH     |
| 28.          | M12 HEX HD SET X 60MM LONG                 | 4      | Z26-088S     |
| 29.          | M14 HEX HD SET X 55MM LONG                 | 8      | Z26-105S     |
| 30.          | STUB AXLE (SHORT)                          | 1      | 204-032      |
| 33           | 4MM "R" CLIP                               | 2      | 236-02       |
|              | RING HITCH ASSY (LONG)                     | ı      | WD65-HIT     |
| 35           | M16 HEX HD SET X 50MM LONG                 | 6      | 2ZG-124S     |
| 36.          | MIC I OCUMENTO                             | 6      | Z23-16       |
| 37.          | M10 HEX HD SET X 25MM LONG                 | 2      | Z26-061S     |
| 38           | 10MM DIA MACHINED FLAT WASHER              | 2      | Z11-02-10    |
| 39.          | TURN TABLE ASSY                            | ı<br>1 | WD66-TA      |
| 40           |  | 1      | WD66-BRI     |
|              | BELT ROLLER ASSY DRIVER                    | 1      | WD66-BRD     |
|              | SMALL ROLLER ASSY                          | 2      | WD66-SMR     |
| 43.          | SIDE ROLLER                                | 2      | Z06-AWR      |
| 44.          | ROLLER MTG BRACKET                         | 4      | WD66-RMB     |
|              |  |        | Z23-12       |
| 45.          | M12 LOCKNUTS                               | 8      | Z12-02-10    |
| 46.          | 10mm DIA SPRING WASHER                     | 5      |              |
| 47.          | 11/4" PILLOW BLOCK BEARING C/W CAM         | 4      | 206-485      |
|              | LOCK COLLAR                                |        | 206 466      |
| 48.          | SUPPORT WHEELS (4" DIA)                    | 4      | Z06-466      |
| 49           | AXLE ASSY C/W GREASE NIPPLE                | 4      | Z03-22-AW/AX |
|              |  |        | 239-60       |
| 50.          | M20 LOCKNUTS                               | 4      | Z23-20       |
| 51.          | 1200MM WIDE X 2475MM LONG X 1/4" FLAT BELT | 1      | Z05-02AW96   |
| 52.          | TURN TABLE COVER PLATE                     | 1      | WD66-043     |
| 54.          | M14 HEX NUT                                | 4      | 218-14       |
| 55.          | SPACER                                     | 8      | WD60-198     |
| 56.          | M8 HEX HD SET X 30MM LONG                  | 4      | Z26-041S     |
| 5 <b>7</b> . | 14MM DIA FLAT WASHER                       | 8      | Z11-02-14    |
| 58.          | M12 HEX HD SET x 30mm LONG                 | 2      | 226-082S     |
| 39.          | FILM TRANSPORT BRACKET                     | 1.     | WD60-FTB1    |
| 50.          | CLAMPING PLATE                             | 1      | WD60-933     |
| 51.          | M10 HEX HD BOLT x 140mm LONG               | 3      | Z26-0726S    |
| 52.          | PLASTIC CAP                                | 2      | Z32~08       |
| 53.          | M12 HEX HD SET x 40mm LONG                 | 4      | Z26-084S     |
| 54.          | 14mm DIA SPRING WASHER                     | 4      | Z12-02-14    |
|              |  |        |              |

#### WD66-LA

# TANCO AUTOWRAP 450S/550S/550A MODELS (TRAILED) 1996 LIFT ARM AND CHASSIS



| ITEM NO. | DESCRIPTION                          | QTY | . PART-NO.         |
|----------|--------------------------------------|-----|--------------------|
| 1.       | CHASSIS ASSEMBLY                     | 1   | WD66-CHA           |
| 2.       | LIFT ARM ASSEMBLY                    | 1   | $\mathtt{WD60-LA}$ |
| 3.       | ADJUSTABLE OUTER ARM ASSY            | 1   | WD60-LAAA          |
| 4:       | ADJUSTABLE BALE STOP                 | - 1 | WD610-LAS          |
| 5.       | HYDRAULIC RAM (LIFT ARM)             | 1   | Z01-01-AW          |
| 6.       | RAM BOTTOM PIVOT PIN                 | 1   | 203-02-330         |
| 7.       | RAM TOP PIVOT PIN                    | 1   | Z03-01-905A        |
| 8.       | 2" x 1/4" SPLIT PINS                 | . 3 | Z03-21-29          |
| 9.       | LIFT ARM PIVOT C/W GREASE NIPPLE     | 2.  | Z03-01-905         |
| 10.      | M10 HEX HD SET x 25mm LONG (TUFLOCK) |     | Z26-061S           |
| 11.      | 10mm DIA MACHINED FLAT WASHER        | 3   | Z11-02-10          |
| 12.      | 10mm DIA SPRING WASHER               | 3   | Z12-02-10          |
| 13.      | SPAREX PIN                           | 1   | Z03-04-73          |
| 14.      | SPAREX PIN                           | 1   | 203-04-77          |
| 15.      | 7/16" DIA LINCH PINS                 | 2   | 203-22-06          |
| 16.      | SAFETY SUPPORT BAR                   | 1   | WD60-319           |
| 17.      | 6mm DIA LINCH PIN                    | . 2 | Z03-22-03          |
| 18.      | PLASTIC CAP                          | 1   | Z32-10             |

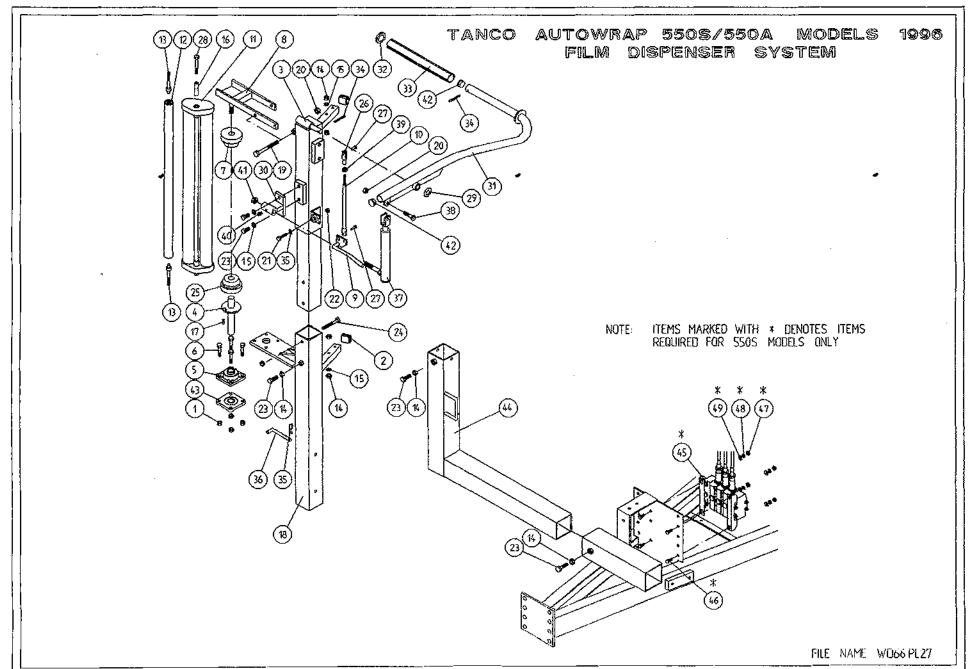


#### WD66-PL26

#### TANCO AUTOWRAP 450S MODEL (TRAILED) 1996

#### FILM DISPENSING SYSTEM

| ITEM NO. | DESCRIPTION                            | QTY. | PART-NO     |
|----------|--|------|-------------|
| 1        | M10 LOCKNUTS                           | 4    | Z23-10      |
| 2        | PLASTIC CAPS (TO SUIT 40 X 40 X 3 RHS) | 2    | Z32-07      |
| 3        | DISPENSER MOUNTING (UPPER)             | 1    | WD60-DMUH   |
| 4        | FILM SPOOL ASSEMBLY                    | 1    | WD60-SPO    |
| 5        | 1" DIA FLANGE BEARING C/W CAM LOCK     | 1    | Z06-48EC    |
| 6        | M10 HEX HD. BOLT X 50MM LONG           | 4    | Z26-066B    |
| 7        | CONE (TOP) C/W BALL BEARINGS           | 1    | Z06-45-01   |
| 8        | CLAMP ASSEMBLY                         | 1    | WD60-DMCA   |
| 9        | LEVER ASSEMBLY                         | 1    | WD60-DMLA   |
| 10       | LINK ASSEMBLY                          | 1    | WD60-DMLK   |
| 11       | FILM DISPENSER UNIT MK 7 (70% STRETCH) | 1    | D614        |
| 12       | SLAVE ROLLER (SHORT)                   | 1    | Z06-SR95-S  |
| 13       | SLAVE ROLLER PIVOT                     | 2    | WD64-SRP    |
| 14       | M12 HEX NUTS                           | 6    | Z18-12      |
| 15       | 12MM DIA SPRING WASHER                 | 2    | Z12-02-12   |
| 16       | 1" DIA FLANGE BEARING                  | 1    | Z06-48      |
| 17       | 1/4" DIA TENSION PIN X 3/4" LONG       | 1    | Z03-20-062  |
| 18       | DISPENSER MOUNTING (LOWER)             | 1    | WD60-DMLH   |
| 19       | M12 HEX HD BOLT X 130MM LONG           |      | Z26-094B    |
| 20       | M12 LOCKNUT                            | 3    | Z23-12      |
| 21       | M8 HEX HD BOLT X 35MM LONG             | 1    | Z26-042S    |
| 22       | M8 LOCKNUT                             | 1    | Z23-08      |
| 23       | M12 HEX HD SET X 30MM LONG             | 2    | Z26-082S    |
| 24       | M12 HEX HD BOLT X 100MM LONG           | 1    | Z26-092B    |
| 25       | CONE (BOTTOM)                          | 1    | Z06-45-02   |
| 26       | CLEVIS (M10)                           | 1    | Z49-335     |
| 27       | PIN (5/16" DIA) C/W CLIP               | 2    | Z49-337     |
| 28       | 4MM "R" CLIP                           |      | Z36-02      |
| 29       | 8MM DUA MUD FLAP WASHER                |      | Z11-02-081  |
| 30       | BISSEL PIN X 110MM LONG                | 1    | WD60-874    |
| 31       | 5/16" UNF HEX NUT                      | 1    | Z15-05      |
| 32       | DISPENSER BRACKET LOWER SUPPORT        |      | WD63-DMLH   |
| 33       | 3 BANK SPOOL VALVE (DIN)               | 1.   | Z01-03-018D |
| 34       | M8 HEX HD SET x 20mm LONG              | 4    | Z26-039S    |
| 35       | M8 HEX NUT                             | 4    | Z18-08      |
| 36       | 8mm DIA SPRING WASHER                  |      | Z12-02-08   |
| 37       | 8mm DIA FLAT WASHER                    | 4    | Z11-02-081  |



#### WD66-PL27

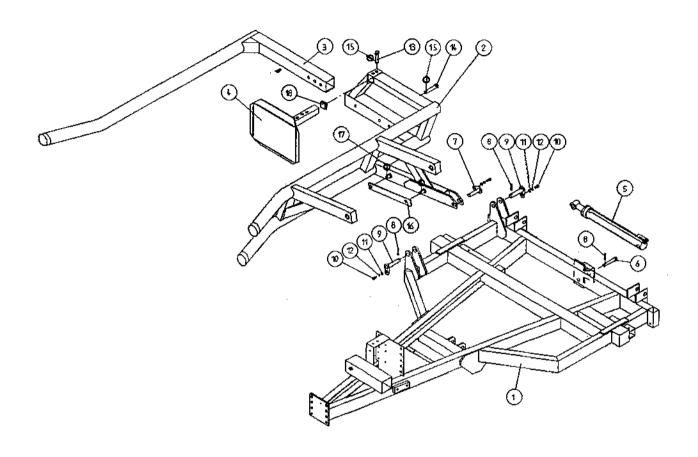
#### TANCO AUTOWRAP 550S/550A MODELS 1996 FILM DISPENSING SYSTEM

| ITEM NO. | DESCRIPTION                            | QTY | PART-NO.    |
|----------|--|-----|-------------|
| 1.       | M10 LOCKNUTS                           | 4   | Z23-10      |
| 2.       | PLASTIC CAPS (TO SUIT 40 x 40 x 3 RHS) | 2   |             |
| 3.       | DISPENSER MOUNTING (UPPER)             | 1   | WD60-DMUH   |
| 4.       | FILM SPOOL ASSEMBLY                    | 1   | WD60-SPO    |
| 5.       | 1" DIA FLANGE BEARING C/W CAM LOCK     | 1   | Z06-48EC    |
| 6.       | M10 HEX HD BOLT x 50mm LONG            | 4   | Z26-066B    |
| 7.       | CONE (TOP) C/W BALL BEARINGS           | 1   | Z06-45-01   |
| 8.       | CLAMP ASSEMBLY                         | 1   | WD60-DMCA   |
| 9.       | LEVER ASSEMBLY                         | 1   | WD60-DMLA   |
| 10.      | LINK ASSEMBLY                          | 1   | WD60-DMLK   |
| 11.      | FILM DISPENSER UNIT MK 9 (70% STRETCH) | 1   | D616        |
| 12.      | SLAVE ROLLER LONG                      | 1   | Z06-SR95-L  |
| 13.      | SLAVE ROLLER PIVOT                     | 2   | WD64-SRP    |
| 14.      | M12 HEX NUTS                           | 6   | Z18-12      |
| 15.      | 12mm DIA SPRING WASHER                 | 4   | Z12-02-12   |
| 16.      | SLEEVE                                 | 1   | D52012-95   |
| 17.      | 1/4" DIA TENSION PIN x 3/4" LONG       | 1   | Z03-20-062  |
| 18.      | DISPENSER MOUNTING (LOWER)             | 1   | WD60-DMLH   |
| 19.      | M12 HEX HD BOLT x 130mm LONG           | 1.  | Z26-094B    |
| 20.      | M12 LOCKNUT                            | 3   |             |
| 21.      | M8 HEX HD BOLT x 35mm LONG             | 1   |             |
| 22.      | M8 LOCKNUT                             | 1   |             |
| 23.      | M12 HEX HD SET x 30mm LONG             | 6   | Z26-082S    |
| 24.      | M12 HEX HD BOLT x 100mm LONG           | 1   |             |
| 25.      | CONE (BOTTOM)                          | 1   |             |
| 26.      | CLEVIS (M10)                           | 1   |             |
| 27.      | PIN (5/16" DIA C/W CLIP)               | 2   |             |
| 28.      | M12 HEX HD BOLT x 80mm LONG            | 1   |             |
| 29.      | 3/4" DIA FLAT WASHER                   | 1   |             |
| 30.      | FILM PULL DOWN BRACKET ASSY            | 1   |             |
| 31.      | FILM PULL DOWN ARM ASSY                | 1   |             |
| 32.      | RETAINING WASHER                       | 1   |             |
| 33.      |  | 1   |             |
|          | 2" x 1/4" SPLIT PIN                    | 2   | Z01-23-29   |
| 35.      | 4mm "R" CLIP                           | 1   | Z36-02      |
| 36.      | BISSEL PIN (110mm LONG)                | 1   | WD60-874    |
| 37.      | HYDRAULIC RAM                          | 1   | Z01-01-AW25 |
| 38.      | M12 HEX HD SET x 50mm LONG             | 1   | Z26-086S    |
| 39.      | 5/16" UNF HEX NUT                      | 1   | Z15-05      |
| 40.      | 1/8" BSP ST. GREASE NIPPLE             | 1   | Z39-60      |
| 41.      | M16 LOCKNUT                            | 1   | Z23-16      |
| 42.      | 1" GB PLASTIC CAP                      | 2   | Z32-14      |
| 43.      | 1" DIA FLANGE BEARING                  | 1   | Z06-48      |
| 44.      | DISPENSER MAST LOWER SUPPORT           | 1   | WD63-DMLH   |
| 45.*     | 3 BANK SPOOL VALVE (DIN)               | 1   | Z01-03-018D |
| 46.*     | M8 HEX HD SET x 20mm LONG              | 1   | Z26-039S    |
| 47.*     | M8 HEX NUT                             | 1   | Z18-08      |
| 48.*     | 8mm DIA SPRING WASHER                  | 1   | Z12-02-08   |
| 49.*     | 8mm DIA FLAT WASHER                    | 1   | Z11-02-081  |

<sup>\*</sup> DENOTES ADDITIONAL ITEMS REQUIRED FOR 550S MODELS

#### WD66-LA

# TANCO AUTOWRAP 450S/550S/550A MODELS (TRAILED) 1996 LIFT ARM AND CHASSIS



| ITEM NO. | DESCRIPTION                          | QTY | . PART-NO.  |
|----------|--------------------------------------|-----|-------------|
| 1.       | CHASSIS ASSEMBLY                     | 1   | WD66-CHA    |
| 2.       | LIFT ARM ASSEMBLY                    | 1.  | WD60-LA     |
| 3.       | ADJUSTABLE OUTER ARM ASSY            | 1   | WD60-LAAA   |
| 4.       | ADJUSTABLE BALE STOP                 | · 1 | WD610-LAS   |
| 5.       | HYDRAULIC RAM (LIFT ARM)             | 1   | Z01-01-AW   |
| 6.       | RAM BOTTOM PIVOT PIN                 | 1   | Z03-02-330  |
| 7.       | RAM TOP PIVOT PIN                    | 1   | Z03-01-905A |
| 8.       | 2" x 1/4" SPLIT PINS                 | 3   | 203-21-29   |
| 9.       | LIFT ARM PIVOT C/W GREASE NIPPLE     | 2   | Z03-01-905  |
| 10.      | M10 HEX HD SET x 25mm LONG (TUFLOCK) | 3   | Z26-061S    |
| 11.      | 10mm DIA MACHINED FLAT WASHER        | 3   | Z11-02-10   |
| 12.      | 10mm DIA SPRING WASHER               | 3   | Z12-02-10   |
| 13.      | SPAREX PIN                           | 1   | Z03-04-73   |
| 14.      | SPAREX PIN                           | 1   | Z03-04-77   |
| 15.      | 7/16" DIA LINCH PINS                 | 2   | Z03-22-06   |
| 16.      | SAFETY SUPPORT BAR                   | 1   | WD60-319    |
| 17.      | 6mm DIA LINCH PIN                    | 2   | Z03-22-03   |
| 18.      | PLASTIC CAP                          | 1   | Z32-10      |

#### FAULT FINDING

#### PROBLEMS.

#### REMEDY.

- Drive Roller and Bale belt not driving
- Check and replace shear Pins in sprocket on drive roller.

2. Film Breaking

Wash off dispenser and slave rollers. Change roll of film. Use recommended films only.

Film not wrapping evenly on bale. Adjust film mast so centre of film roll is aligned with centre of bale .

4. Film Tearing on Ramp.

Check for sharp edges and remove.

5. Bale Skidding on Ramp.

Fit Hessian Bag or piece of carpet to Ramp.

Film Dispenser not Pre-Stretching Film. Check that both Rollers turn when one is turned by hand. If not, fit new gears or replace unit.

 Tyres coming off 4" platform Support Wheels.

Replace Wheels - Reduce speed below 30 r.p.m. - Do not grease path of wheels on platform. Check that bale does not get trapped between arms and turntable when being loaded.

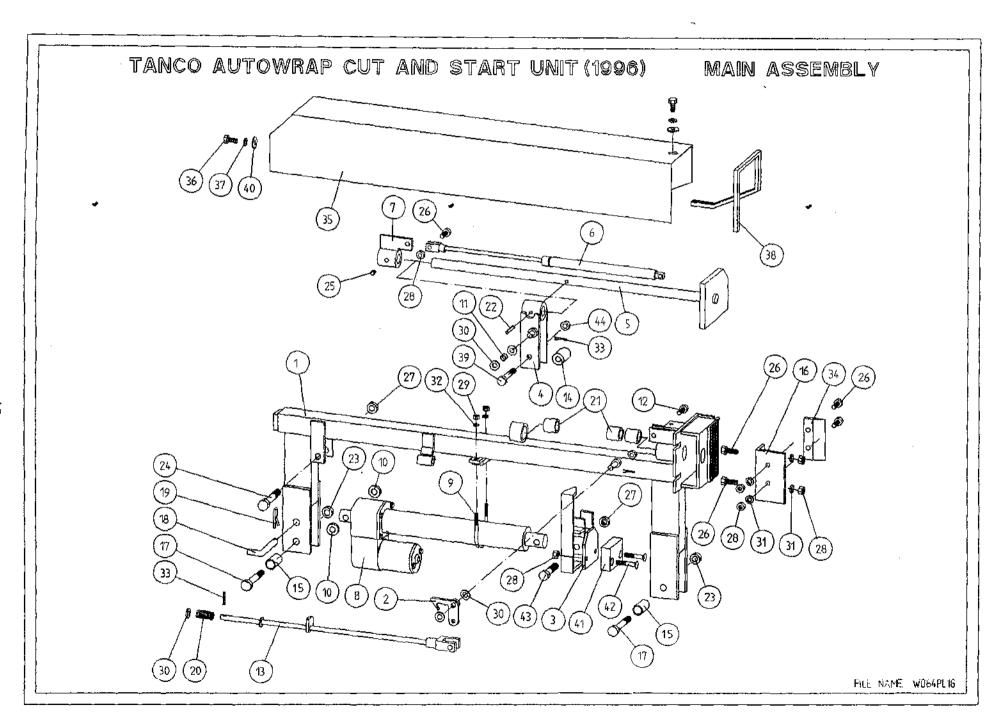
If this happens lower arm and start again.

 Hydraulic Bale Ramp not returning to raised position after tipping off bale. See instructions for recharging hydraulic cylinder.

- 9. Bale Belt Tracking Adjustment
- (i) Ensure vertical rollers (plastic) are in tight on the bale.

  Remember that the bale will reduce in size during wrapping and, on the round bales in particular, the corners will become rounded so that the bale will tend to move sideways due to centrifugal forces. Now, if the plastic rollers are too far apart, the bale will move against one of the plastic rollers causing the belt to move in the opposite direction. Always adjust the vertical plastic rollers so that they keep the bale central on the belt.
- (ii) Ajust bale stop on lift arm so that bale is loaded centrally onto platform.
- (iii) Check that bale belt is fitted so arrow points in direction of travel.
- (iv) Check that both 8" rollers underneath the bale belt are parallel to each other. Remember the golden rule - a belt will always move up a slope: So, if the belt continually moves to our side, adjust idler roller to a narrower setting on the opposite side to which the belt travels.
- (v) Check that gripface strips are securely fixed to the roller and have not moved out of alignment.
- (vi) Check that is the same measurement each side by running a string around the belt and measuring it. If one side is longer than the other replace the belt.

SOCIAL STATEMENT STATEMENT

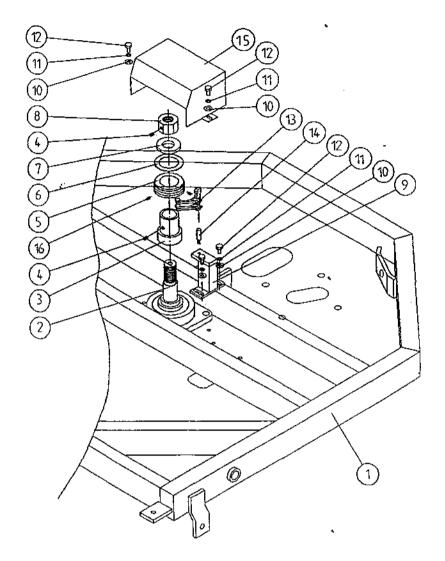


#### WD64-PL16

#### TANCO AUTOWRAP CUT AND START UNIT (1996) PARTS LIST

| ITEM NO | DESCRIPTION                              | QTY | PART-NO.     |
|---------|--|-----|--------------|
| 1.      | MAIN MOUNTING FRAME ASSY                 | 1   | WD605-MF1    |
| 2.      | LATCH ASSY.                              | 1   | WD605-LA     |
| 3.      | PUSH PLATE / POINTER ASSY.               | 1   | WD605-PPP    |
| 4.      | GUIDE ASSY                               | 1   | WD605-GD1    |
| 5.      | PLUNGER ASSY                             | 1   | WD605-PL1    |
| 6.      | GAS SPRING                               | î   | Z07-47       |
| 7.      | GAS SPRING MOUNTING BRACKET              | ı   | WD605-GSM    |
| 8.      | WARNER LINEAR ACTUATOR D11 10B5 08       | 1   | ZD605-510    |
| 9.      | "U" BOLT                                 | 1   | WD605-45     |
| 10.     | SPACER 1" X OD X 1/2" ID X 6mm LONG      | 2   | WD605-65     |
| 11.     | SLEEVE 1/2" DIA O.D. X 13/32" DIA I.D.   | 1   | WD605-47     |
| 12.     | M8 HEX HD SET X 35mm LONG                | 1   | Z26-042S     |
| 13.     | TRIGGER ASSEMBLY                         | 1   | WD605-TRG    |
|         | ·  | 1   |              |
| 14.     | COLLAR 1" DIA BRIGHT RD. X 41.5mm LONG   |     | WD605-51     |
| 15.     | SPACER                                   | 1   | WD605-100    |
| 16.     | BLADE GUARD/MOUNTING BRACKET             | 1   | WD605-105    |
| 17.     | M12 HEX HD BOLT X 80mm LONG              | 2   | Z26-0901B    |
| 18.     | BISSEL PIN                               | 1.  | Z03-22-AW100 |
| 19.     | 4mm "R" CLIP                             | 1   |              |
| 20.     | SPRING 16mm O.D X 1.5mm WIRE X 48mm LONG | 1   | Z07-34       |
| 21.     | OILITE OIL RETAINING BUSH 1 1/8" O.D.    | 3   | Z06-105      |
| 22.     | 1 1/2" X 1/4" DIA TENSION PIN            | 1   | Z03-20-07    |
| 23.     | M12 LOCKNUTS                             | 2   | Z23-12       |
| 24.     | M12 HEX HD BOLT X 65mm                   | 1   | Z26-0882B    |
| 25.     | M8 GRUB SCREW                            | 1   | Z28-008      |
| 26.     | M8 HEX HD SET X 25mm                     | 3   | Z26-040S     |
| 27.     | M12 BINX LOCKNUT                         | 4   | Z23-12BX     |
| 28.     | M8 LOCKNUT                               | 8   | Z18-08       |
| 29.     | M6 LOCKNUT (NYLOCK)                      | 2   | Z23-06       |
| 30.     | 10mm DIA FLAT WASHER                     |     | Z11-02-10    |
| 31.     | 8mm DIA FLAT WASHER                      |     | Z11-02-08    |
| 32.     |  |     | Z11-02-06    |
|         | 3mm DIA SPLIT PIN                        |     | Z03-21-02    |
| 34.     | BLADE                                    | 1   |              |
|         |  |     | WD605-MG     |
| 35.     | MAIN GUARD                               | 1   |              |
| 36.     | M8 HEX HD SET X 20mm LONG                | 2   | Z26-039S     |
| 37.     | 8mm DIA SPRING WASHER                    | 9   | Z12-02-08    |
| 38.     | EDGING STRIP                             | 1   | Z44-12       |
| 39.     | M10 HEX HD SET X 20mm                    | 2   | Z26-060S     |
| 40.     | 8mm DIA FLAT WASHER 1" O.D.              | 4   | Z11-02-081   |
| 41.     | PACKER                                   | 1   | WD605-133    |
| 42.     | M8 X 40 COUNTER SUNK BOLT                | 2   | Z13-5-08X40  |
| 43.     | M12 HEX HD BOLT X 50mm LONG              | 1   | Z26-086B     |
| 44.     | M10 LOCKNUT                              | 1   | Z23-10       |

WD645-PL70 TANCO AUTOWRAP CUT AND START UNIT (1996) SLIP RING ASSY.



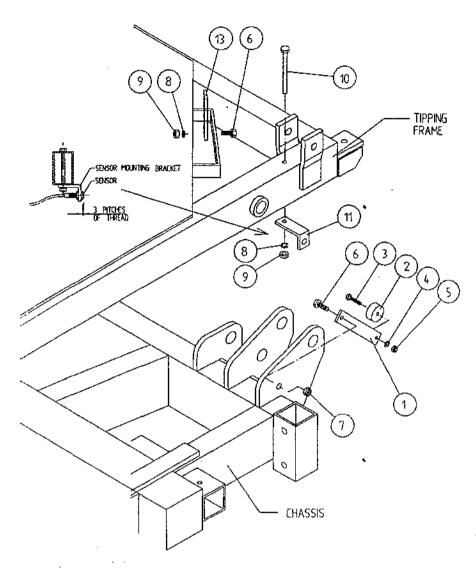
PARTS LIST

| ITEM NO. | DESCRIPTION                     | YTO | PART-NO.   |
|----------|---------------------------------|-----|------------|
| 1.       | UNDERSIDE OF TIPPING FRAME      | 1   | WD64-TF    |
| 2.       | TURNTABLE CENTRE SHAFT          | 1   | WD64-002   |
| 3.       | SLIP RING MOUNTING SLEEVE       | 1   | WD605-161  |
| 4.       | M8 GRUB SCREW x 6 mm LONG       | 2   | Z28-007    |
| 5.       | SLIP RING ASSY.                 | 1   | ZD605-308  |
| 6.       | INSULATING RING                 | 1   | ZD605-350  |
| 7.       | LOCKING COLLAR                  | 1   | WD60-770   |
| 8.       | 1 1/4" UNC HEX NUT              | 1   | Z18-300    |
| 9.       | SLIP RING MOUNTING BRACKET ASSY | 1   | WD605-BMB  |
| 10.      | 10mm DIA FLAT WASHER 1" O.D.    | 4   | Z11-02-101 |
| 11.      | 10mm SPRING WASHER              | 4   | Z12-02-10  |
| 12.      | M10 HEX HD SET x 20mm           | 4   | Z26-060S   |
| 13.      | BRUSHES                         | 2   | ZD605-306  |
| 14.      | INSULATOR SLEEVE                | 1   | ZD605-302  |
| 15.      | SLIP RING GUARD ASSY            | 1   | WD605-SRG  |
| 16.      | M5 GRUB SCREW                   | 2   | Z28-005    |

#### WD64-PL29

#### TANCO AUTOWRAP CUT AND START UNIT 1995

#### SENSOR AND MAGNET MOUNTING BRACKETS



PARTS LIST

| ITEM NO.  | DESCRIPTION                              | QTY.   | PART-NO.            |
|-----------|--|--------|---------------------|
| 1.<br>2.  | MAGNET MOUNTING BRACKET MAGNET           | 1      | WD605-165<br>D6043  |
| 3.        | M6 HEX HD SET x 30mm LONG                | 1      | Z26-022S            |
| 4.        | 6mm DIA FLAT WASHER                      | 1      | Z11-02-06<br>Z23-06 |
| 5.<br>6.  | M6 LOCKNUT<br>M8 HEX HD SET x 25mm LONG  | 2      | Z26-040S            |
| 7.        | M8 LOCKNUT (NYLOCK)                      | 1      | Z23-08              |
| 8.        | 8mm DIA SPRING WASHER                    | 2<br>2 | Z12-02-08           |
| 9.<br>10. | M8 HEX NUT<br>M8 HEX HD SET x 100mm LONG | 1      | Z18-08<br>Z26-057S  |
| 11.       | SENSOR MOUNTING BRACKET                  | 1      | WD605-58            |
| 12.       | SENSOR MOUNTING FLAT                     | 1      | WD605-164           |



### TANCO AUTOWRAP "S" MODELS FAULT FINDING SUMMARY

This summary is to be read in conjunction with operators handbook.

Note: It has been found that most faults can be attributed to a bad power supply. Therefore it is essential that power supply be taken directly from battery terminals, ensuring correct polarity.

Operating voltage is 100 D.C. (under load) to 13 50 D.C.

Operating voltage is 10V D.C. (under load) to 13.5V D.C. <u>Problem</u> Proposed Remedy (a) Check polarity on connections to (1) Bale Wrap monitor does not power on. battery terminals. (b) Check fuse, in bale wrap controller. (a) Ensure that left top hand (2) Plunger does not come out after revolutions of turntable. switch is in auto mode (b) Check operation in manual mode to ensure that plunger travels in and out. If the plunger does not travel in and out, check all connections from six pin plug, through slip ring to linear actuator. Check voltage while operating in (2) (i) Buzzer sound continuously manual mode. This voltage should "bleep", "bleep" and bale no lower than 10V D.C. (under wrap monitor does not count above 2 revs. load). Also check connections on battery terminals. Check that bale wrap monitor is counting revolutions and if not check that turntable sensor is within 6mm of magnet on turntable. Carry out continuity of turntable sensor, by taking reading cross 2 & 3 in six pin plug. Check setting for function (1), (3) Plunger opens too soon and which indicates number of releases film. turns to activate motor. This should be 2. (b) Check setting for function on (7), which indicates non auto reset. This should be N. Plunger travels out but latch Increase setting function (2) which indicates the number of does not engage to plunger seconds linear actuator powers travels back. out for. Setting can be changed in increments of 0.5 sec.

(a)

Plunger snaps closed after about

is caused by the Linear Actuator

6 turntable revolutions. This

not stopping in park position.

which indicates the number of seconds required to reverse to park position. Setting can be altered in increments of 0.5 sec. In the park position there should be 5mm to 12mm clearance between cam on push plate assy and latch trigger.

Reduce setting for function (4),

### TANCO AUTOWRAP \*S\* MODELS FAULT FINDIND SUMMARY

- (6) Plunger opens while turntable rotates after buzzar sounds.
- (a) Check setting for function (7) which indicates non auto reset. This should be N.
- (7) When machine is tipped plunger does not close.
- (a) Check clearance between tip sensor on back of tipping frame and magnet of 5mm to 6mm.
- (b) Check that tip sensor passes magnet, if not adjust magnet position.
- (c) Check setting for function (5) which indicates the number of seconds from tipping signal until motor is fully closed. This should be 2.5 sec.

# TANCO AUTOWRAP AUTOMATIC MODELS Cut and start Fault Finding Summary.

This summary is to be read in conjunction with operators handbook.

Note: It has been found that most faults can be attributed to a bad power supply. Therefore it is essential that power supply be taken directly from battery terminals, ensuring correct polarity.

Operating voltage is 10V D.C. (under load) to 13.5V D.C.

Problem
(1) Bale Wrap monitor does not power

#### Proposed Remedy

- (a) Check polarity on connections to battery terminals.
  - (b) Check fuse, in power supply cable to controller.
- (2) Plunger does not come out after 2 revolutions of turntable.
- (a) Check operation in manual mode to ensure that plunger travels in and out. If the plunger does not travel in and out, check all connections from six pin plug, through slip ring to linear actuator.
- (b) Check fuse in power supply cable to junction box and replace if necessary.
- (2) (i) Buzzer sound continuously "bleep" bleep" and bale wrap monitor does not count above 2 revs.
- (c) Check voltage while operating in in manual mode. This voltage should be no lower than 10V D.C. (under load). Also check connections on battery terminals.
  - (d) Check that bale wrap monitor is counting revolutions and if not check that turntable sensor is within 6mm of magnet on turntable.
  - (e) Carry out continuity check of turntable sensor, by taking reading across 2 & 3 in six pin plug.
- (3) Plunger snaps closed after about 7 to 8 turntable revolutions. This is caused by the Linear Actuator not stopping in park position.
- (a) Reduce setting for programme (1), which indicates the number of seconds required to reverse to park position. Setting can be
  - altered in increments of 0.5 sec. In the park position there should be 5mm to 12mm clearance between cam on push plate assy and latch trigger.
- (4) When machine is tipped plunger does not close.
- (a) Check clearance between tip sensor on back of tipping frame and magnet of 5mm to 6mm.
- (b) Check that tip sensor passes magnet, if not adjust magnet position.

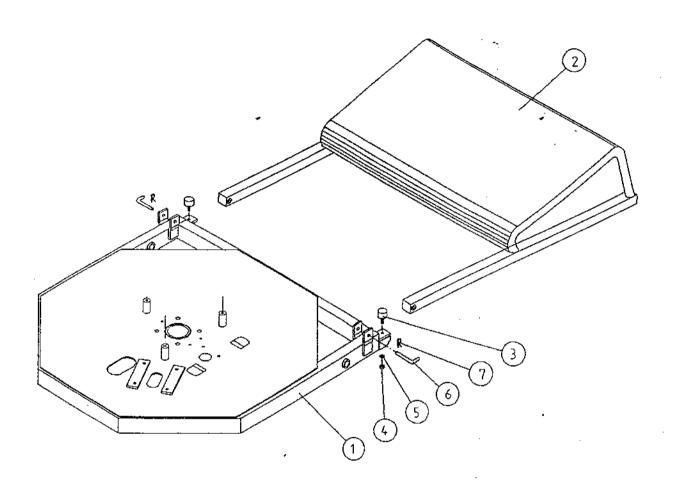
#### **OPTIONS AVAILABLE**

THE AVAILABLE OPTIONS ARE SHOWN ON THE FOLLOWING PAGES, SOME OF WHICH ARE ONLY AVAILABLE AS A FACTORY FITTED OPTION.

- 1. RIDGID BALE RAMP STANDARD ON 450S/550S MODELS OPTIONAL ON 550A MODEL
- 2. HYDRAULIC BALE RAMP OPTIONAL ON 450S/550S MODELS STANDARD ON 550A MODEL
- 3. LIGHTING KIT OPTIONAL ON 450S/550S/550A MODELS

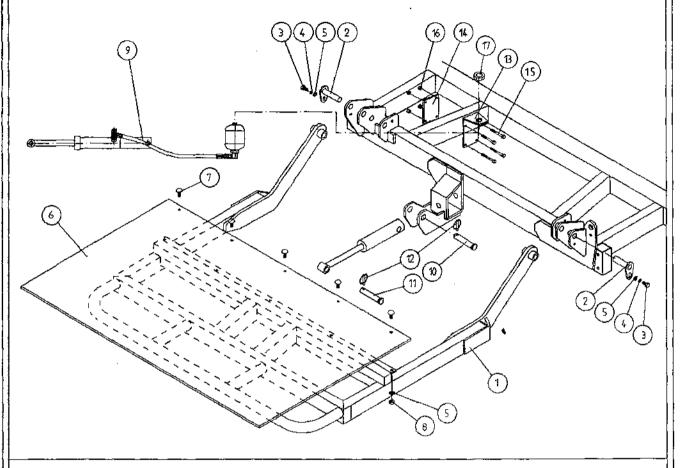
THE ABOVE OPTIONS ARE SUBJECT TO CHANGE, AND CAN VARY FROM COUNTRY TO COUNTRY.
CHECK WITH YOUR TANCO DEALER FOR EXACT DETAILS.

# TANCO AUTOWRAP 1996 MODEL RIDGID BALE RAMP ASSY

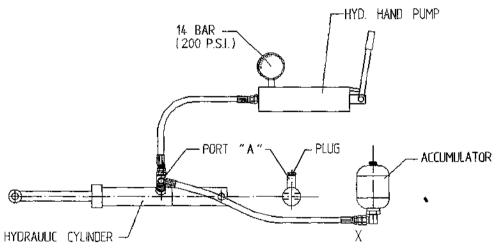


| ITEM NO | DESCRIPTION                 | QTY | PART-NO.       |  |
|---------|-----------------------------|-----|----------------|--|
| 1.      | TIPPING FRAME ASSY          | 1   | WD64-TF        |  |
| 2.      | BALE RAMP ASSY              | 1   | WD60-BR        |  |
| 3.      | BUFFER 50mm DIA x 40mm LONG | 2   | Z40-20         |  |
| 4.      | M10 HEX NUT                 | 2   | <b>Z1</b> 8-10 |  |
| 5.      | 10mm DIA SPRING WASHER      | 2   | Z12-02-10      |  |
| 6.      | BISSEL PIN                  | 2   | Z03-22-AW100   |  |
| 7.      | 4mm "R" CLIP                | 2   | Z36-02         |  |

### TANCO AUTOWAP 1996 MODEL HYDRAULIC BALE RAMP



### INSTRUCTIONS FOR RECHARGING HYDRAULIC CYLINDER



- 1. REMOVE PLUG FROM PORT "A".
- 2. CONNECT HOSE FROM HYD. HAND PUMP TO PORT "A".
- 3. CHARGE CYLINDER TO A PRESSURE OF 14 BAR (200 P.S.L.)
- 4. BLEED AIR FROM SYSTEM BY SLACKENING HOSE CONNECTION AT BASE OF ACCUMULATOR MARKED X. RETIGHTEN CONNECTION.
- 5. REMOVE PUMP HOSE FROM PORT "A" AND REFIT PLUG.

FILE NAME WD66-PLZE

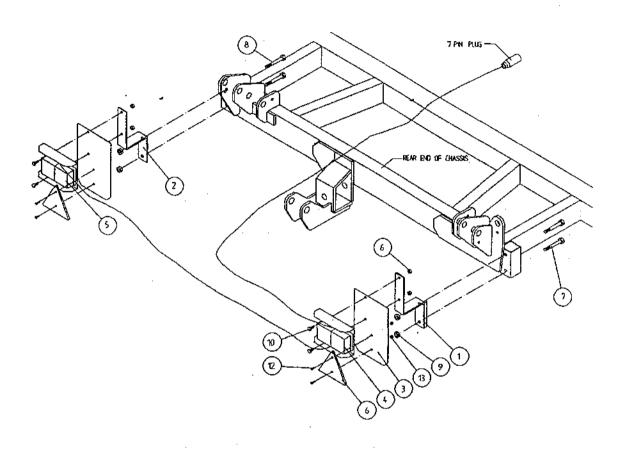
#### WD64-PL25

## TANCO AUTOWRAP 1996 MODEL HYDRAULIC BALE RAMP

| ITEM | DESCRIPTION:                             | QTY: | PART NO:   |
|------|--|------|------------|
| 1    | HYDRAULIC BALE RAMP ASSY                 | 1    | WD65-HBRF  |
| 2    | RAMP MAIN PIVOT PIN<br>C/W GREASE NIPPLE | 2    | Z03-01-905 |
| 3    | M10 HEX HD SET X 20mm LONG TUFLOCK       | 2    | Z26-060ST  |
| 4    | 10mm DIA MACHINED FLAT WASHER            | 2    | Z11-02-10  |
| 5    | 10mm DIA SPRING WASHER                   | 12   | Z12-02-10  |
| 6    | BALE MAT                                 | 1    | Z05-02-BRH |
| 7    | M10 X 30mm LONG CUP HD.SQ BOLTS          | 5    | Z13-112    |
| 8    | M10 HEX NUTS                             | 5    | Z18-10     |
| 9    | HYDRAULIC RAM C/W ACCUMULATOR            | 1    | Z01-01-AWD |
| 10   | SPAREX PIN                               | 1    | Z03-04-74  |
| 11   | SPAREX PIN                               | 1    | Z03-04-73  |
| 12   | 7/16" DIA LINCH PIN                      | 2    | Z03-22-06  |
| 13   | ACCUMULATOR MOUNTING PLATE               | 1    | WD65-AMP   |
| 14   | CLAMPING PLATE                           | 1    | WD65-231   |
| 15   | M8 HEX HD BOLT X 80mm LONG               | 4    | Z26-050B   |
| 16   | M8 LOCKNUT                               | 4    | Z23-08     |
| 17   | M28 X 1.5 PITCH HEX NUT                  | 1    | Z18-28     |

**Z05**-30

#### TANCO AUTOWRAP TRAILED MODELS LIGHTING KIT



| ITEM NO | DESCRIPTION                  | QTY    | PART-NO.       |
|---------|------------------------------|--------|----------------|
| 1.      | LIGHT MOUNTING BRACKET RHS   | 1      | WD60-LMB       |
| 2.      | LIGHT MOUNTING BRACKET LHS   | _<br>1 | WD60-899       |
| 3.      | LIGHT MOUNTING PLATE         | 2      | WD60-898       |
| 4.      | LIGHT CLUSTER RHS            | 1      | Z05-30R        |
| 5.      | LIGHT CLUSTER LHS            | 1      | Z05-30L        |
| 6.      | TRIANGULAR REFLECTOR         | 2      | Z04-62         |
| 7.      | M12 HEX HD BOLT X 100 LONG   | 2      | Z26-092B       |
| 8.      | M12 HEX HD BOLT X 90 LONG    | 2      | Z06-091B       |
| 9.      | M12 LOCKNUT                  | 4      | Z23-12         |
| 10.     | M8 HEX HD SET X 20 LONG      | 4      | Z26-39S        |
| 11.     | M8 LOCKNUT                   | 4      | Z23-08         |
| 12.     | M6 CHEESE HEAD SET X 20 LONG | 4      | Z13-15         |
| 13.     | M6 LOCKNUT                   | 4      | <b>Z</b> 23-06 |

#### **NOTES**

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#### <u>NOTES</u>

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#### EC DECLARATION OF CONFORMITY

according to Directives 89/392/336/EEC as amended

Manufacturer

TANCO ENGINEERING CO. LTD. **BAGENALSTOWN** CO. CARLOW **IRELAND** 

Certifies that the following product:

AUTOWAAP.

MODEL

4505/5505/5504

SERIAL No.

D2000- D3000

To which this declaration relates, corresponds to the essential requirements of the Directive 89/392/336/EEC as amended.

To conform to these essential health and safety requirements, the provisions of the following harmonized standards were particularly considered:

EN 292 - 1,2 , EN 294 , EN 1152 , prEN 703 , prEN 811 , prEN 1553 , prEN 982.

DATE 01-01-96

SIGNATURE REPORTED A. COX, TECHNICAL DIRECTOR