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LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.



This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.



To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

SAFE OPERATION PRACTICES FOR TILLERS

- It is suggested that this manual be read in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future reference and for ordering replacement parts.
- 2. Your tiller is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
- 3. Read this Owner's Manual carefully. Be thoroughly familiar with the controls and the proper use of the equipment.
- Never allow children to operate a power tiller. Only persons well acquainted with these rules of safe operation should be allowed to use your tiller.
- 5. Keep the area of operation clear of all persons, particularly small children and pets.
- 6. Do not operate equipment when barefoot or wearing open sandals. Always wear substantial footwear.
- 7. Do not wear loose fitting clothing that could get caught on the tiller.
- 8. Do not start the engine unless the shift lever is in the neutral (N) position.
- 9. Do not stand in front of the tiller while starting the engine.
- 10. Do not place feet and hands on or near the tines when starting the engine or while the engine is running.
- 11. Never attempt to make a wheel or depth bar adjustment while the engine is running.
- 12. Do not leave the tiller unattended with the engine running.
- 13. Do not walk in front of the tiller while the engine is running.

- 14. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill gasoline tank indoors, when the engine is running, or while the engine is still hot. Wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
- 15. Do not run the engine while indoors. Exhaust gases are deadly poisonous.
- 16. Be careful not to touch the muffler after the engine has been running. It is hot.
- 17. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
- 18. Before any maintenance work is performed or adjustments are made, remove the spark plug wire and ground it on the engine block for added safety.
- 19. Use caution when tilling near buildings and fences. Rotating tines can cause damage or injury.
- 20. Before attempting to remove rocks, bricks and other objects from tines, stop the engine and be sure the tines have stopped completely. Disconnect the spark plug wire and ground to prevent accidental starting.
- 21. Check the tine and engine mounting bolts at frequent intervals for proper tightness.
- 22. Keep all nuts, bolts and screws tight to be sure the equipment is in safe working condition.
- 23. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.



FIGURE 1.



FIGURE 2.



ASSEMBLY INSTRUCTIONS

This unit is shipped WITHOUT GAS-OLINE or OIL. After assembly, see operating section of this manual for proper fuel and engine oil recommendations.

Before any step is undertaken, the instructions for that step should be read thoroughly.

Tools Required:

- (2) 9/16" Sockets, open or box wrench
- (1) 1/4 " Flat Screwdriver
- (1) Hammer

---Loose Parts in Carton: (See Figure 1)

Handle Panel Assembly

Depth Bar

Tailpiece

Control Rod Hardware Pack (Not Shown)

-Contents of Hardware Pack: (See Figure 2)

- A (1) "U"-Clevis Pin .50" Dia.
- B (1) Internal Cotter Pin
- C (2) Self-Tapping Screws
- D (2) Hex Bolts 3/8-16 x 1.00" Lg.
- E (2) Belleville Washers 3/8" I.D.
- F (2) Lock Washers 3/8" I.D.
- G (2) Hex Nuts 3/8-16 Thd.
- H (1) Ferrule
- I (1) Hairpin Cotter
- J (1) Hairpin Cotter
- K (1) Clevis Pin
- L (1) Throttle Control Knob
- M (1) Spring Pin
- N (2) Cable Ties
- O (2) Grips (Not Shown)
- P (2) Carriage Bolts (Not Shown)
- Q (2) Lock Washers 5/16" I.D. (Not Shown)
- R (2) Hex Nuts 5/16-18 Thd. (Not Shown)

TAILPIECE INSTALLATION

FIGURE 3.



DEPTH BAR INSTALLATION

Slide the depth bar into the tailpiece to desired -depth. Secure with clevis pin (K) and spring pin (M). See figure 4.

FIGURE 4.



FIGURE 5.



FIGURE 6.

HANDLE ASSEMBLY

- Secure handle panel to handles by placing carriage bolts (P) through the lower holes in the handle panel and through the handles. Secure with lock washers (Q) and hex nuts (R), finger tight only.
- 2. Remove hex bolt and belleville washer from ----each side of frame as shown in figure 5.
- 3. Place the handle panel assembly in position against the frame.
- 4. Start the hex bolt and belleville washer (removed in step 1) by hand in the bottom hole in handle. See figure 6.
- 5. Select height position for the handle by lining up one of the holes in the handle with desired hole in frame. See figure 5.
- Place belleville washer (E) on hex bolt (D), and insert hex bolt through handle and frame. Secure with lock washer (F) and hex nut (G) on —inside of frame. See figure 6.
- 7. Tighten all nuts and bolts securely.



The clutch rod must be readjusted whenever the handle height is changed.

8. Slip hand grips on the upper end of each handle. They will slip on more easily if you first soak them in warm soapy water.



THROTTLE CONTROL INSTALLATION

 Place the throttle control up through the slot in the handle panel. Secure with two selftapping screws (C). Tighten securely with a screwdriver. See figure 7.

FIGURE 7.



- Place the throttle control knob (L) over throttle control lever. Tap on with a hammer. See —figure 8.
- 3. Secure throttle control cable to handle with cable ties (N). Cut off excess ends.

FIGURE 8.



CLUTCH CONTROL ROD INSTALLATION

- Place shift lever (located on handle panel) in neutral (N) position. Place bent end of control rod into shift lever. Secure with hairpin cotter
 (J). See figure 9.
- 2. Thread ferrule (H) onto the other end of control rod so that the ferrule lines up with the hole in idler bracket. Secure with cotter pin (I). See figure 9.

FIGURE 9.



3. Disconnect the spark plug wire from spark plug to prevent accidental starting. Secure end of spark plug wire in the "V" slot on the engine. See figure 10. With the clutch lever in neutral position, pull starter cord several times. **The tines should not turn.** If they do, remove the hairpin cotter and remove the control rod from the clutch lever. Thread the control rod in or out of the ferrule as necessary. Replace and check again for correct adjustment.

FIGURE 10.



TINE ASSEMBLIES

Check to be certain the tine assemblies are on the tine shaft so that the sharp edge enters the soil – first. See figure 11.

FIGURE 11.

OPERATION BEFORE STARTING ENGINE:

- 1. Before starting, fill crankcase with oil as instructed in the separate engine manual packed with the unit.
- 2. Fill fuel tank with clean, fresh, lead-free, lowlead, or regular grade leaded gasoline.

Fill here with gasoline Oil Fill Starter Handle

FIGURE 12.

TO START ENGINE:



BE SURE NO ONE IS STANDING IN FRONT OF THE TILLER WHILE THE ENGINE IS RUNNING OR BEING STARTED.

1. Place the shift lever in the neutral (N) position. See figure 13.



FIGURE 13.

2. Pull choke knob out to choke engine. See figure 14.



Warm engine does not require choking.



FIGURE 14.

- 3. Move throttle control lever forward to "START" position. See figure 12.
- 4. Stand at side of the tiller. Grasp the starter handle and pull out rapidly. Return it slowly to the engine. Repeat if necessary.
- 5. After engine starts, push choke knob in gradually to "OFF" position.

TO STOP ENGINE:

- 1. Move throttle control lever to "STOP" position. See figure 12.
- Remove spark plug wire from spark plug to prevent accidental starting while equipment is unattended.

HOW TO USE YOUR TILLER

The tiller is a precision built machine designed for seed bed preparation, cultivating, furrowing and mulching. It is engineered to minimize the hardest work in the vegetable or flower garden, to till the soil for planting and cultivating, and to perform many other useful labor saving tasks in the garden. With the proper amount of care and maintenance, this machine will provide the owner with many years of excellent service.

WHEEL POSITION

The tiller is shipped with the wheels adjusted such that the unit sits level. During digging as the tines enter the ground and the front of the tiller lowers, the wheels must be raised to level the unit. This is essential for proper engine operation. This adjustment is made by removing the clevis pin and hairpin cotter from wheel yoke, raising the wheels to the desired height, and replacing the clevis pin and hairpin cotter. See figure 15.



FIGURE 15.

CONTROLLING SPEED AND TILLING DEPTH:

1. Wheel Yoke Adjustment: Place wheel yoke so that the wheels are forward (nearest point between wheels and tines) for shallow tilling, cultivating and transport. This will increase the forward speed. See figure 16. Turn yoke around (farthest point between wheels and tines) for deep tilling. Forward speed will decrease. See figure 16.



FIGURE 16.

2. **Depth Bar Adjustment:** The depth bar acts as a brake for the tiller and controls the depth and speed at which the machine will operate. See figure 17. Remove the clevis pin and spring pin to raise or lower depth bar.



FIGURE 17.

By increasing the depth of the depth bar, the forward speed of the machine is reduced, and the working depth is increased. When the depth bar is raised, the working depth of the machine is reduced and the forward speed is increased. The working depth of the machine may be predetermined by setting the depth bar and wheels so that the wheels are about four inches from the ground when the tines and depth bar are resting on the ground. This setting will permit a working depth of about four inches. Use maximum engine speed for deep tilling. When presetting the working depth, the handles should be a little above waist height because the tiller will be lower when the tines and depth bar penetrate the ground. The best method will be determined by the soil condition. In some soils, the desired depth is obtained the first time over the garden. In other soils, the desired depth is obtained by going over the garden two or three times. In the latter case, the depth bar should be lowered before each succeeding pass over the garden. Passes should be made across the length and width of the garden alternately. Rocks which are turned up should be removed from the garden area.

3. Handle Pressure: Further control of tilling depth and travel speed can be obtained by variation of pressure on the handles. A downward pressure on the handles will reduce the working depth and increase the forward speed. An upward pressure on the handles will increase the working depth and reduce the forward speed. The type of soil and working conditions will determine the actual setting of the depth bar and the handle pressure required. 4. Throttle Control: The throttle control lever is located on the right side of handle panel.



Right hand side is determined from the operator's position standing behind the tiller.

The throttle control lever adjusts the engine speed. It also gives fingertip control of the carburetor and magneto stop switch. With the throttle control knob pushed completely forward, the carburetor is in "START" position. Pulling the throttle control back slightly adjusts the engine speed to "FAST." Pulling the throttle back further reduces the engine speed to "SLOW." When the throttle is pulled completely back, the magneto stop switch grounds out the spark and stops the engine.

Use maximum engine speed for deep tilling. Move the throttle control to slow when transporting the tiller. When the tiller is being moved to or from the garden, the depth bar should be pivoted forward until it engages the depth bar spring pin. The machine may be moved under its own power, without damaging grass areas as long as it is allowed to move freely. If the operator holds back, it will start to dig.

CULTIVATING

For cultivating, a two to three inch depth is desirable. Setting the wheels and depth bar so that the wheels are about two inches above the ground while the tiller is resting on the tines and depth bar will allow the machine to work at cultivating depth. The throttle should be set to control forward movement to a slow walking speed. With standard tines, the working width of the machine is 26 inches. For cultivation, this may be reduced to 14 inches by removing the outer tines. See figures 18 and 19.



FIGURE 18.



FIGURE 19.

When laying out plant rows, be sure to allow enough width to permit cultivation between the rows. In growing corn or similar crops, check-row planting will permit cross cultivation and practically eliminate hand hoeing.

The tiller has many uses other than tilling and cultivating a garden. One of these is the preparation of lawn area for seeding. The tiller will prepare a deep seed bed which will be free of hard untilled spots, allowing a better stand of grass to grow. The tiller is very useful for loosening hard soil for excavation with a shovel. No tedious hand pickwork will be necessary. Your tiller may be used for mixing compost in the pile, or for mixing it with the soil in your garden. This should be done after the soil has been broken to the full working depth. The compost should be worked in to a depth of six to eight inches. This may be done by working the length of the garden, and then by mixing separate passes across its width. The addition of decayed organic matter will substantially increase the fertility of your garden. For proper decaying action, fertilizer should be applied and worked in with the mulch materials. Breaking up leaves and straw and mixing it with several inches of soil causes the soil to hold moisture longer and allows proper aeration of the plant root system. It also retards the growth of weeds.

The U.S. Department of Agriculture and various state and local agencies offer published booklets and expert advice on all phases of gardening. They should be consulted regarding soil information, planting dates, and the most satisfactory varieties of crop for your particular area.

ADJUSTMENTS



Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

CLUTCH CONTROL ROD

To adjust the clutch control rod, refer to clutch control rod installation, step number 3 under Assembly Instructions.

WHEEL ADJUSTMENTS

To adjust the wheel yoke and wheel position, refer to "How To Use Your Tiller" on page 8.

DEPTH BAR ADJUSTMENT

To adjust the depth bar, refer to "How To Use Your Tiller" on page 8.

CARBURETOR ADJUSTMENT



If any adjustments are made to the engine while the engine is running (e.g. carburetor), disengage all clutches and tines. Keep clear of all moving parts. Be careful of heated surfaces and muffler.

Do not make unnecessary adjustments. Factory settings are correct for most applications. If adjustments are needed, refer to the separate engine manual packed with your tiller.

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on tiller.

CHAIN CASE

The chain case is pre-lubricated and sealed at the factory. It requires no checking unless the chain case is disassembled. To fill with grease, lay the left half of the chain case on its side, add 14 ounces of Plastilube #0 grease and assemble the right half to it. This grease can be obtained at your nearest authorized dealer.

MAINTENANCE



Disconnect the spark plug wire and ground against the engine before performing any adjustments, repairs or maintenance.

ENGINE OIL

Check oil level every five operating hours. Make sure oil level is maintained full to point of overflowing.

Change the oil in the crankcase after the first two hours of operation of your new engine and after each 25 hours of use thereafter to insure proper lubrication of internal parts. Take care to remove dirt around filler plug. See figure 20.



Oil Filler Plug

FIGURE 20.

To change oil, remove drain plug while engine is warm and tip the tiller forward. See figure 21. Replace drain plug. Remove oil filler cap and refill with new oil of proper grade. Replace filler cap.



FIGURE 21.

AIR CLEANER

The air cleaner prevents damaging dirt, dust, etc. from entering the carburetor and being forced into the engine and is important to engine life and performance.

To service air cleaner, refer to the separate engine manual packed with your unit.

Never run your engine without air cleaner completely assembled.

CLEAN ENGINE

This is an air-cooled engine which operates most efficiently when the cooling fins are clean.

Clean cylinder fins and underside of tank or housing thoroughly of all accumulated grass and debris.

SPARK PLUG

The spark plug should be cleaned and the gap reset at least once a season or when oil is changed. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specification.

BELT REPLACEMENT

Your tiller has been engineered with belts made of special material (Kevlar Tensile). Replacement should not be made with an off-the-shelf belt.

If belt replacement is required, order belt or belts by part number from your nearest authorized dealer.

Forward Drive Belt—Part No. 754-0154 1/2" x 37" Lg. Reverse Drive Belt—Part No. 754-0201 1/2" x 41" Lg.

Removing and Replacing the Forward Drive Belt.

- 1. Remove the belt guard, by removing four (4) hex self-tapping screws.
- 2. Press down on the left side of the tine shield and slip off the belt guard. See figure 22.



FIGURE 22.

3. Loosen (do not remove) the hex screw and nut holding the belt retainer, using two 7/16" wrenches. See figure 23.

When reassembling the belt, be certain to secure the belt retainer against the tab on the clutch mounting plate. Incorrect placement of the belt retainer can cause excessive wear on the belt.



FIGURE 23.

4. Pull the shift lever back into reverse (R) position. Lift the forward drive belt off the engine pulley, flat idler and chain case pulley. See figure 24.



FIGURE 24.

Reassemble the new belt with the "V" side of belt to the inside. Assemble in reverse order.

Removing and Replacing the Reverse Drive Belt.

1. To remove the reverse drive belt, you must remove the forward drive belt first. See removing the forward drive belt section, steps 1, 2, 3 and 4. 2. With the shift lever in neutral (N) position, slip the reverse drive belt off the chain case pulley and "V"-Groove of engine pulley. See figure 25.



FIGURE 25.

3. Place the shift lever in reverse (R) position. Remove hex lock nut holding the flat reverse idler pulley. See figure 25. Pull the idler bracket forward with one hand. Slip off flat idler and belt together. See figure 26.



FIGURE 26.

4. When reassembling new reverse drive belt, make sure the V-portion of belt is to the outside and flat side is to the inside. Loop one end of belt over flat idler pulley and place flat idler pulley and belt back in position on idler bracket. Secure idler pulley with hex lock nut.



Flat idler pulley must be installed with the sleeve side towards the idler bracket. See figure 27.



FIGURE 27.

OFF-SEASON STORAGE

If the tiller is not to be used for a while, the following procedure should be followed. The tines, depth bar, gear case and wheels should be cleaned of all dirt. It is very important that the unit be stored in a level position to prevent engine oil from draining into the cylinder head cavity.

Engines on tillers to be stored between seasons should be completely drained of fuel to prevent gum deposits forming on essential carburetor parts, and fuel tank.

- (a) All fuel should be removed from fuel tank. Run the engine until it stops from lack of fuel. The small amount of fuel that remains in the sump of the tank should then be removed by absorbing it with a clean dry cloth.
- (b) Clean dirt and chaff from cylinder, cylinder head fins and blower housing.

(c) Remove spark plug, pour 2 or 3 tablespoons of SAE-30 oil into cylinder and pull crank cord out slowly to distribute oil. Replace spark plug.

Just as your automobile needs professional mechanical maintenance from time to time, so does your air-cooled engine. Cleaning and adjusting of the carburetor and periodic replacement of the spark plug and ignition points is made necessary by NORMAL use.

Professional Air-Cooled Engine Service is as close as your telephone book.

A yearly checkup or tune-up by an authorized engine dealer is a good idea to avoid breakdowns or delay...do it at the end of the season, then you're ready for the next.

TILLER WINTERIZING INSTRUCTIONS FOR USE WITH SNOW BLADE:

- For cold weather (below 32°F.), drain oil from tiller engine crankcase and replace with SAE 10W or 10W-20 detergent oil.
- 2. Replace any remaining fuel on hand or in the engine fuel tank with a fresh supply of winter grade fuel. Winter fuels contain additives for faster starts. Keep fuel tank full.



It may be necessary to enrich the carburetor idle and high speed jets 1/8 to 1/4 turn (counterclockwise) for good performance.

3. In the spring of the year, before the tilling season, be sure to change engine oil back to SAE 30W detergent oil.

Model 381

IF YOU WRITE TO US ABOUT THIS ARTICLE OR IF YOU ORDER REPLACEMENT PARTS AL-WAYS MENTION THIS MODEL & SERIAL NO M O D E L

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Model 381

PARTS LIST FOR MODEL 381 TILLER

REF. NO.	PART COLOR NO. CODE	DESCRIPTION	NEW PART	REF. NO.	PART COLOR NO. CODE	DESCRIPTION	NEW PART
1	710-0160	Hex Wash Hd. AB Tap Scr.		27	712-0267	Hex Nut 5/16-18 Thd.*	
		#8 x .62″ Lg.		28	736-0119	L-Wash. 5/16" I.D.*	
2	15278 —463	Handle Panel Ass'y.		29	736-0921	L-Wash. 1/2 " I.D.*	
3	720-0180	Handle Grip		30	712-0200	Hex Inst. L-Nut 1/2-20 Thd.	
4	731-0108	Throttle Control Knob		31	06813 —463	Wheel Bracket Ass'y.	
5	714-0149	Internal Cotter Pin		32	06792	Engine ''U''-Channel	
6	04602	"U"-Clevis Pin .500" Dia.				Ăss'y.—L.H.	
7	710-0451	Carriage Bolt 5/16-18 x .75"		33	712-0267	Hex Nut 5/16-18 Thd.*	
		Lg.*		34	710-0322	Hex Sems Bolt 5/16-18 x	
8	04586	"U"-Channel Plate				1.00″ Lg.*	ļ
9	711-0231	Clevis Pin .500" Dia.		35	06794	Engine "U"-Channel	
10		Depth Bar				Āss'y.—R.H.	[
11	732-0194	Spring Pin		36	749-0356	Handle—R.H.	
12	732-0290	Depth Bar Spring		37	711-0599	Clevis Pin	
13	736-0119	L-Wash. 5/16" I.D.*		38	736-0119	L-Wash. 5/16" I.D.*	
14	714-0145	Internal Cotter Pin		39	712-0267	Hex Nut 5/16-18 Thd.*	
15	736-0119	L-Wash. 5/16" I.D.*		40	06816	"U"-Channel Bracket Ass'y.	
16	712-0267	Hex Nut 5/16-18 Thd.*		41	712-0267	Hex Nut 5/16-18 Thd.*	
17	749-0502	Handle—L.H.		42	04589	Tailpiece Ass'y.	
18	710-0253	Hex Bolt 3/8-16 x 1.00" Lg.*		43	747-0183	Control Rod	
19	736-0105	Belleville Wash. 3/8" I.D.		44	747-0182	Clutch Lever	
20	710-0118	Hex Bolt 5/16-18 x .75" Lg.*		45	720-0143	Grip	
21	736-0169	L-Wash. 3/8" I.D.*		46	746-0369	Throttle Control Ass'y.	
22	712-0798	Hex Nut 3/8-16 Thd.*				Comp.	
23	736-0253	Belleville Wash505 I.D. x		47	735-0126	Rubber Wash.	
		1.00″ O.D.		48	736-0159	FI-Wash344" I.D. x	
24	710-0458	Carriage Bolt 5/16-18 x 1.75"				.880 O.D. x .06	
	70 / 0000	Lg.*		49	712-0158	Hex Cent. L-Nut 5/16-18 Thd.	
25	734-0968	Wheel Ass'y. 9 x 1.75		50	732-0191	Extension Spring .75" O.D.	
26	738-0318	Shoulder Bolt .625" Dia. x				x 11.0″ Lg.	
		2.75″ Lg.					

*For faster service obtain standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(463—Top Flite Red) When ordering parts if color or finish is important, use the appropriate color (447—Patina Silver) code shown at left. (e.g. Top Flite Red Finish—15278 (463).)

The engine is not under warranty by the tiller manufacturer. If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."





This instruction manual covers various models and all specifications shown do not necessarily apply to your model. Specifications subject to change without notice or obligation.



Model 381

PARTS LIST FOR MODEL 381 TILLER

- 1	REF.	PART COLOR	DESCRIPTION	NEW		PART	COLOR	DESCRIPTION	NEW
L	NO.	NO. CODE		PART	NO.	NO.	CODE		PART
	1		Engine		27	756-02	61	Engine Pulley	
	2	712-0287	Hex Nut 1/4-20 Thd.*		28	736-02		FI-Wash. 3/8" I.D. x 1.00"	
	3	736-0329	L-Wash. 1/4 " I.D.*					O.D.	
	4	06801	Support Bracket		29	736-01	69	L-Wash 3/8" I.D.*	
	5	710-0252	Hex Bolt 1/4-20 x .75" Lg.*		30	710-01	91	Hex Bolt 3/8-24 x 1.25" Lg.*	
	6	06796 —447	Belt Guard		31	750-02	29	Spacer .635 I.D. x .88 O.D.	
· ·	7	710-0599	Thread Rolling Scr. 1/4-20 x					x 1.035 Lg.	
			.50″ Lg.		32	754-02	01	"V"-Belt ½″ x 41″ Lg.	
	8	712-0185	"U"-Type Speed Nut					Reverse	
	9	738-0281	Shoulder Bolt .625" Dia. x		33	754-01	54	"V"-Belt ½″ x 37″ Lg.	
			.170" Lg. (2 Req'd.)					Forward	
	10	747-0180	Control Rod		34	756-02	62	Chain Case Pulley 6.0" Dia.	
	11	06786	Reverse Idler Brkt. Ass'y.		35	710-05	73	Hex Bolt 5/16-18 x 1.25" Lg.	
	12	732-0433	Spring—Idler Brkt.					Special	
	13	06784	Forward Idler Brkt. Ass'y.		36	736-01	70	Shake-Proof Wash.	
	14	712-0375	Hex Cent. L-Nut 3/8-16 Thd.		37	736-02	31	FI-Wash. 5/16" I.D. x 1.120	
			(2 Req'd.)					O.D.	
	15	747-0183	Clutch Control Rod		38	714-01	49	Internal Cotter Pin 1/2" Dia.	
	16	712-0195	Speed Nut 3/8-24 Thd.		39	742-02	09	Tine Blade—L.H.	
	17	711-0392	Ferrule		40	742-02	10	Tine Blade—R.H.	
	18	714-0104	Inter. Cotter Pin		41	15379		Inner Tine Adapter Ass'y.	N
	19	712-0262	Hex Jam Nut 3/8-24 Thd.		42	710-06	00	Hex Wash. Hd. Self-Tap Scr.	
			(2 Req'd.)					5/16-18 x .50" Lg.	
	20	756-0225	FI-Idler w/Flanges 3.12 O.D.		49	04598		Tine Shield	
			x .75 (2 Req'd.)		50	710-04	42	Hex Bolt 5/16-18 x 1.50" Lg.*	
_	21	06803	Clutch Mounting Plate		51	15380		Outer Tine Adapter Ass'y.	N
	22	710-0121	Hex Bolt 1/2-20 x .75 Spec.		53	1545-0	29	Clevis Pin	
	23	747-0181	Belt Guard Rod		55	736-01	75	Bell-Wash.	
÷	24	736-0114	Internal L-Wash. 1/2" I.D.		56	736-01	70	Shake-Proof Wash.	
	25	736-0463	FI-Wash. 1/4 " I.D.		57	710-01	18	Hex Bolt 5/16-18 x .75" Lg.*	
	26	714-0133	Sq. Key 3/16" x 1.50" Lg.*						

* For faster service obtain standard nuts, bolts, and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

Heavy Duty Garden Tiller Attachments Available for All-Season Use							
31-0107 6-Tine Culti	e Wheels (Pair) vator (Must be used with epth Gauge Wheels)		Lawn Aerator (Use with 31-0114 Wheel Weights for added penetration) "V"-Bar Cultivating Kit				
31-0110 8" Furrower 31-0111 15" Sweep	Ópener		Kit Includes: "V"-Bar Frame, 4-Point Cultivating Tines, Hiller/Furrower, Depth Gauge Wheels (Pair).				
31-0114 Wheel Weig 31-0115 Tire Chains		31-0145	Depth Stake Cultivating Kit Kit Includes: 8" Furrower Opener, 15" Sweep Cultivator, 32" Leveling Rake, Extra Depth Stake.				

Note: Attachments are available through your local dealer or from the factory: Agri-Fab Inc., 303 W. Raymond Street, Sullivan, Illinois 61951 (217) 728-4334

Model 381 Chain Case Assembly 15282



PARTS LIST FOR CHAIN CASE 15282 (MODEL 381 TILLER)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	750-031	5	Spacer .657" I.D. x .78" O.D.		24	731-04	87	Dust Cap	
			x 2.19″ Lg.		25	712-07	798	Hex Nut 3/8-16 Thd.*	
2	738-018	32	Jackshaft		26	736-01	69	L-Wash. 3/8" I.D.*	
3	721-013	32	Housing Gasket		27	710-03	322	Hex Sems Bolt 5/16-18 x	
4	15276		Housing Ass'y.—L.H. Half					1.00″ Lg.*	
5	741-015	55	Ball Bearing .625" I.D. x		28	710-05	538	Hex Bolt 5/16-18 x .62" Lg.	
			1.375″ O.D.					(Special)	
6	05034		Bearing Housing		29	15274		Housing Ass'y.—R.H. Half	
7	750-022	29	Spacer .635" I.D. x .88" O.D.		30	748-02		Hex Flange Bearing	
			x 1.03″ Lg.		31	713-02		Sprocket 10 Tooth 1/2" Pitch	ן ו
8	756-026	62	Chain Case Pulley 6.0" Dia.		32	713-01	31	#41 Chain 1/2 " Pitch x 34	
9	710-064	3	Hex Bolt 5/16-18 x 1.0" Lg.					Links	
			(Special)		33	713-01	186	#420 Chain 1⁄2" Pitch x 48	
10	736-011	9	L-Wash. 5/16" I.D.*					Links	
11	736-023	31	FI-Wash344" I.D. x 1.125"		34	748-08		Flange Bearing .625" I.D.	
			0.D.		35	713-01	187	#50 Chain 5/8" Pitch x 28	
12	710-059	99	Hex Wash. Hd. Self-Tap Scr.					Links	
			1⁄4-20 x .50″ Lg.		36	738-03		Sprocket Shaft	
14	712-026		Hex Nut 5/16-18 Thd.*		37	713-01	182	Sprocket Bearing Sleeve	
15	710-064		Hex Bolt 3/8-16 x 3.25" Lg.*					Ass'y.	
16	731-037		Flange Bearing (Plastic)		38	713-01		Sprocket Sleeve Ass'y.	
19	736-016		Flat Thrust Wash.		39	738-03		Sprocket Shaft	<u> </u>
20	750-031	4	Step Spacer		40	715-01	114	Spring Pin Spiral 1/4" Dia.	
21	15273		Tine Shaft Ass'y.					x 1.50" Lg.	
22	710-059	99	Hex Wash. Hd. Self-Tap Scr.		41	714-01	133	Square Key 3/16 x 3/16 x	
			1⁄4-20 x .50″ Lg.					1.50″ Lg.*	
23	721-017	75	Seal Ring	i					



PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service for all MTD manufactured power equipment are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firr. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline**, Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

Auto Electric & Carburetor Co	BIRMINGHAM 2625 4th Ave. S 35233 NORTH LITTLE ROCK
ARKANSAS Sutton's Lawn Mower Shop	5301 Roundtop Drive Box 368, Rt. 4
CALIFORNIA Billious	Box 368, Rt. 4
Spitzer Industrial Products Co	Box 29114, 6601
FLORIDA Radco Distributors	JACKSONVILLE
	Agoog Victor St. Box 5459 OPA LOCKA
Small Eng. Dist	2351 N.W. 147th St 33054 EAST POINT 2834 Church St 30344
East Point Cycle & Key	2834 Church St 30344 LYONS
Keen Edge Co	ELKHART 2101 Industrial Pkwy46514
IOWA	DUBUQUE
LOUISIANA Mid-South Power	MONROE 700 Pine St
Subren Engine Co	8330 Farbart Blvd70118
MARYLAND Center Supply Co	6867 New Hampshire
MASSACHUSETTS Morton B. Collins Co	Ave
MICHIGAN	2500 S Pennsylvania 48910
Dower Equipment Dist	340 Hubbard 48043
Hance Distributing Inc.	
MISSISSIPPI Biloxi Sales & Service, Inc	506 Caillavet St 39533
MISSOURI Automotive Equip. Service	KANSAS CITY 3117 Holmes St64109 ST JOSEPH
Ross-Frazier Supply Co	ST. JOSEPH 8th and Monterey 64503 ST. LOUIS
Henzler, Inc	ST. LOUIS 2015 Lemay Ferry Road
NEW JERSEY Lawnmower Parts Inc	BELLMAWR 717 Creek Rd
NEW MEXICO Spitzer Eng. & Parts	1023 Third Ave. N.W 87103
NEW YORK Gamble Dist., Inc.	CARTHAGE West End Ave 13619

NORTH CAROLINAGOLDSBOROSmith Hardware Co.515 N. George St.27530Dixie Sales Company335 N. Green27402OHOCARROLLStele's Mid-State Mower SupplyBox 366, 71 High St.43112Stebe's Mid-State Mower SupplyBox 366, 71 High St.44102Bleckrie, Inc.7900 Lorain Ave.44102WaDSWORTH687 Seville Rd.44281National Central687 Seville Rd.44281YOUNGSTOWNBurton Supply Co.1301 Logan Ave.Box 9294450144501OKLAHOMAMUSKOGEEVictory Motors, Inc.605 S. Cherokee74401OREGONPORTLANDKenton Supply Co.8216 N. Denver Ave.97217PENNSYLVANIAHARRISBURGEECO Inc.91125 Frankstown Rd.15235PUNXSUTAWNEYFrank Roberts & SonsR.D. 215767TENNESSEEKNOXVILLE37921-MemPHISAmerican Sales & Service, Inc.3035-43 Bellbrook381TEXASDALLAS422 E. Jefferson75203Marr Brothers, Inc.423 E. Jefferson75203FORT WORTHSAN ANTONIOEngine House Inc.8610 Botts LaneP.O. Box 1786778217AA1114Woodson Sales Corp.1702 N. Sylvania76111HOUSTONBuillard Supply Co.2409 Commerce St.77003SAN ANTONIOEngine House Inc.43610 Botts LaneP.O. Box 1786778217AA114 Hath Ave.98122WiscOnsinMARSHFIELD <th></th> <th></th>		
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WARRANTY PARTS AND SERVICE POLICY

(0782)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has no control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

- 1. Replacement of Missing Parts on new equipment.
- 2. Replacement of Defective Parts within the warranty period.
- 3. Repair of Defects within the warranty period.

All claims MUST be substantiated with the following information:

- 1. Model Number of unit involved.
- 2. Date unit was purchased or first put into service.
- 3. Date of failure.
- 4. Nature of failure.