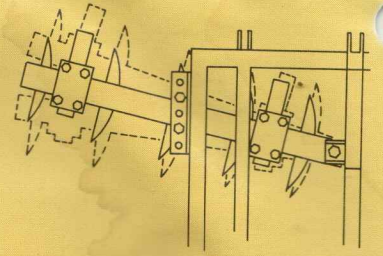


**M&W**  
**EARTHMASTER™**  
**CONSERVATION TILLAGE SYSTEM**

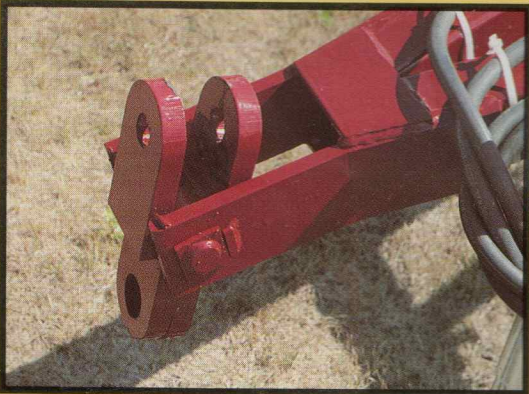


# Conserve soil and improve yields with

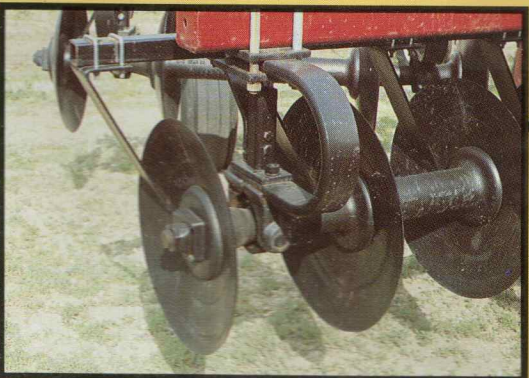
The EARTHMASTER is a combination of two tools, a full four gang disk (not a row of single coulters as used by others) and a V-ripper chisel plow. By combining the two into one tool, both sections do a better job than they can when used alone. The special parabolic design of the chisel shanks pulls down on the frame. This action stabilizes the disk so it won't skip or bounce over rough ground. The result is a superior job of mixing soil and surface trash. Adjustable gangs can be set to cover trash as needed. This extra coverage reduces the amount of volunteer corn from ears that were not completely covered the year before. Heavy 22" concave disk blades are 15" apart so the soil is thrown on trash, not against the next blade. The rear gang is positioned so the blades cut between the front gang's blades so trash is cut every 7 1/2". The Earthmaster leaves the ground level with debris and soil evenly mixed to reduce wind and water erosion. Trash mixed with soil near the surface not only holds soil in place it also decomposes faster to provide more nutrients for next year's crop. The extra oxygen in the top few inches of soil speeds the breakdown of residue. Surface trash also retains fertilizer and chemicals until rainfall can carry them deeper into the soil.



**ADJUSTABLE DISK GANGS** can be positioned at three different angles to cut trash, cut trash and moderately mix it with soil or cut trash and thoroughly mix it with soil.



**REVERSIBLE CLEVIS HITCH** eliminates one more problem when switching from one tractor to another. Big 2" and 1 3/8" pin openings.



**20" END BLADES** on front gangs reduce amount of dirt thrown out. Big 1 1/2" square high strength disk bolts secure heavy 22" x 1/4" blades spaced 15" apart.

**ADJUSTABLE HYDRAULIC LIFT LINK** works with the wheel cylinder to raise the Earthmaster straight up. Hydraulic valve can also be closed for rear lift only, if desired.

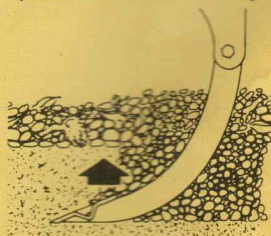
**OPTIONAL SCRAPERS** keep disk blades clean in wet conditions. Scrapers are easily adjusted.



**SPRING MOUNTED DISK GANGS** absorb impacts. Triple seal trunnion bearings are self-aligning and greaseable for a long service life.

# With the M&W EARTHMASTER™

The EARTHMASTER uses a shank which lifts the soil as it is pulled through the ground. The downward pull caused by this design is countered by the disk. This action fractures the compacted ground more completely and requires less horsepower to pull. Some chisel plows use a spring loaded design which creates more resistance as the shank profile "flattens out". Others use "wings" or wider points which also require more horsepower to do the job. The EARTHMASTER rigid parabolic shanks with reversible, replaceable points permit deeper, more effective chiseling with less horsepower. This depth allows you to chisel just below the compacted barrier to open the way for better root growth and bigger yields. Fertilizer and moisture can penetrate to deep root levels where it will be available during long dry spells. The 24" spacing between shanks leaves a "pyramid" of coarsely shattered ground between shanks to support machinery used during spring planting. This reduces recompaction of the soil but still allows room for deep root growth. Shanks can be repositioned on the V-Chisel if desired. The chisel plow can also be used alone with tractors equipped with Category II and III hitches. Optional coulters and gauge wheels are available. Start preparing your soil today for higher yields tomorrow with the EARTHMASTER from M&W.



**V-CHISEL ADJUSTING LINK** controls the angle of the V-Chisel.

**CHISEL PLOW LINK** makes chisel depth adjustments possible without removing the V-Chisel plow. Simply pull two pins and raise or lower the frame to adjust.



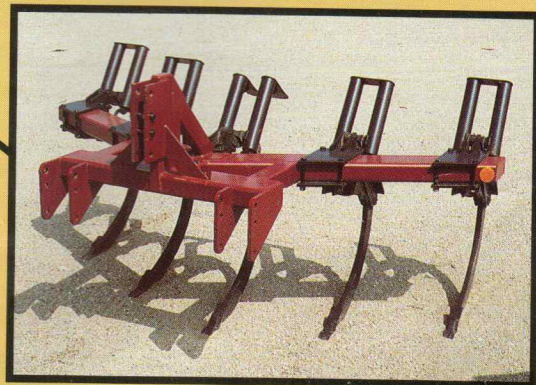
**SINGLE HYDRAULIC CYLINDER LIFT SYSTEM** works with the hydraulic lift link at the front to raise the Earthmaster straight up. Easy-to-use adjustment pins limit the working depth.

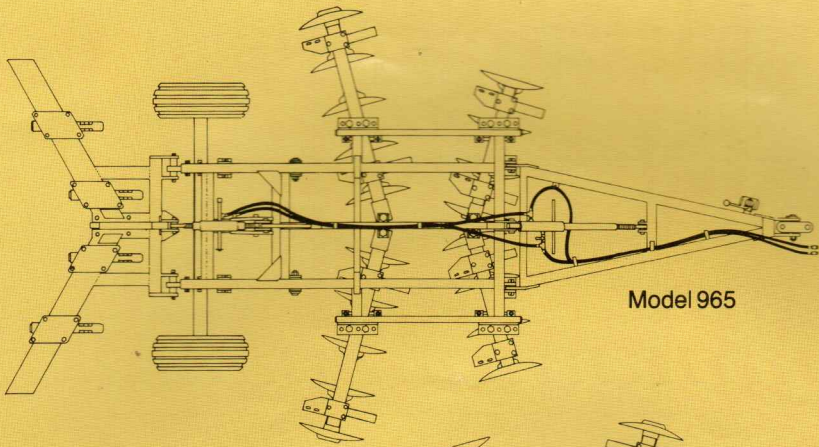


**AUTOMATIC RESET TRIP SHANKS** or **MANUAL SPRING TRIP RESET SHANKS** eliminate shear bolts. Both use heavy 1 1/4" x 3" shanks with reversible chisel points.

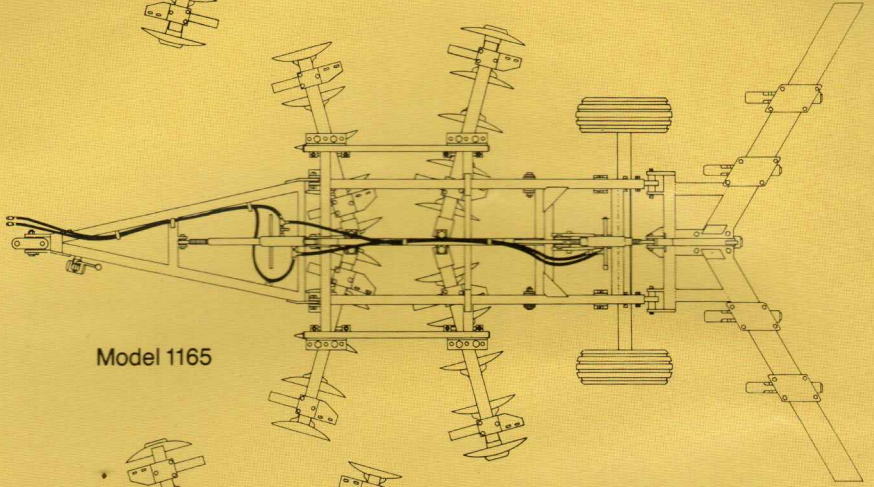
**8 PLY 10:00-15 TIRES** and heavy six bolt hubs mount on 2 1/2" diameter spindles.

**REMOVABLE V-CHISEL PLOW** can be used alone. Fits 3-point Category II and III hitches. Optional adjustable gauge wheels and coulters are available.

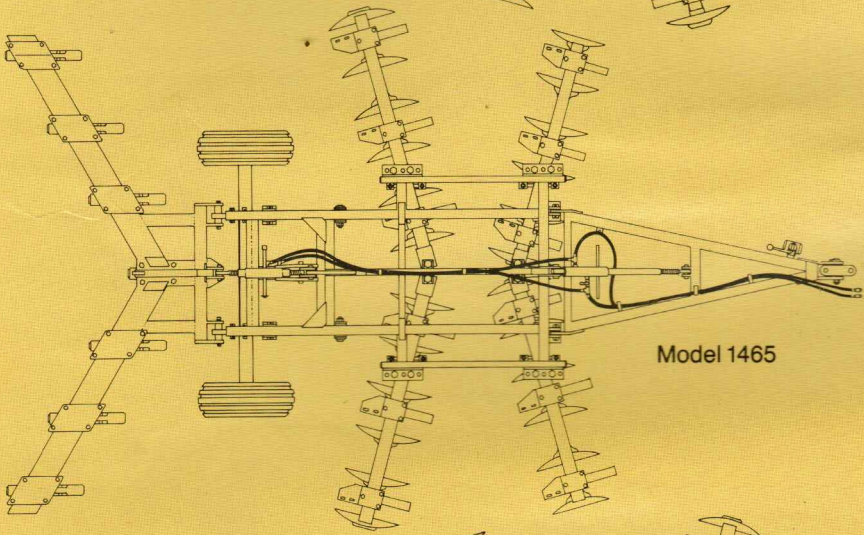




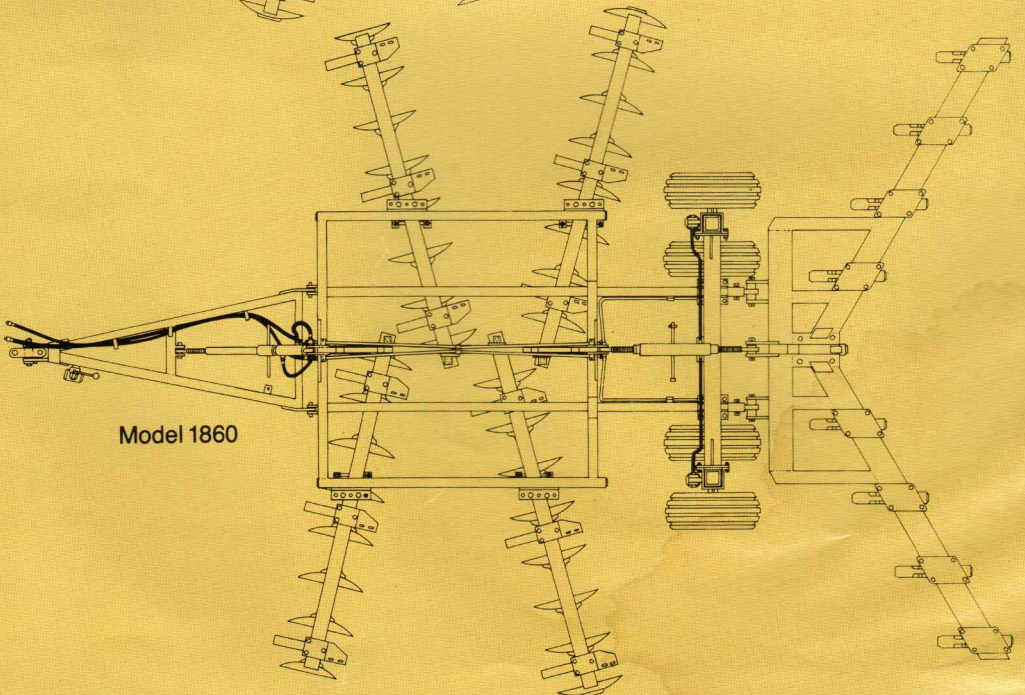
Model 965



Model 1165



Model 1465



Model 1860

# SPECIFICATIONS

Model 965

Model 1165

Disc Cutting Width (Rear gang at center angle position)	11'1"	11'1"
Transport Width (at center angle position)	12'2"	12'2"
Length (with chisel plow)	23'	23'
Height	5'8"	5'8"
Lift Travel	24"	24"
Ground Clearance (raised)	12"	12"
Front Disc Gangs	(4) 22" Disc Blades (2) Bearings	(1) 20" & (4) 22" Disc Blades (2) Bearings
Rear Disc Gangs	(5) 22" Disc Blades (2) Bearings	(5) 22" Disc Blades (2) Bearings
Disc Blade Spacing	15"	15"
Shank Spacing	Maximum of 5 on 24"	Maximum of 7 on 24"
Wheels	(2) 8" x 15"	(2) 8" x 15"
Tires	(2) 10:00-15, 8 Ply	(2) 10:00-15, 8 Ply
Approximate Weight*	5,198 Lbs.	5,813 Lbs.

Model 1465

Model 1860

Disc Cutting Width (Rear gang at center angle position)	13'5"	18'2"
Transport Width (at center angle position)	14'7"	19'5"
Length (with chisel plow)	23'6"	25'10"
Height	5'8"	6'6"
Lift Travel	24"	24"
Ground Clearance (raised)	12"	12"
Front Disc Gangs	(1) 20" & (5) 22" Disc Blades (3) Bearings	(1) 20" & (7) 22" Disc Blades (3) Bearings
Rear Disc Gangs	(6) 22" Disc Blades (3) Bearings	(8) 22" Disc Blades (3) Bearings
Disc Blade Spacing	15"	15"
Shank Spacing	7 on 24"	9 on 24"
Wheels	(2) 8" x 15"	(4) 8" x 15"
Tires	(2) 10:00-15, 8 Ply	(4) 10:00-15, 8 Ply
Approximate Weight*	7,051 Lbs.	9,539 Lbs.

\*Weight includes maximum number of optional manual shanks.

## STANDARD EQUIPMENT

Reversible Clevis Hitch 22" Concave Disc Blades Spring Disc Standards 1½" Square Gang Bolt Triple Seal Greaseable Trunnion Bearings 8 x 15-8 Bolt Wheels with 10.00 x 15-8 Ply Rated Tubeless Tires	Adjustable Disc Gangs Adjustable Hydraulic Hitch Cylinder V-style Chisel Frame 4½ x 12" Lift Cylinder & Hoses** Hitch Jack
--	--

\*\* (2) 2" x 24" Cylinders used on Model 1860

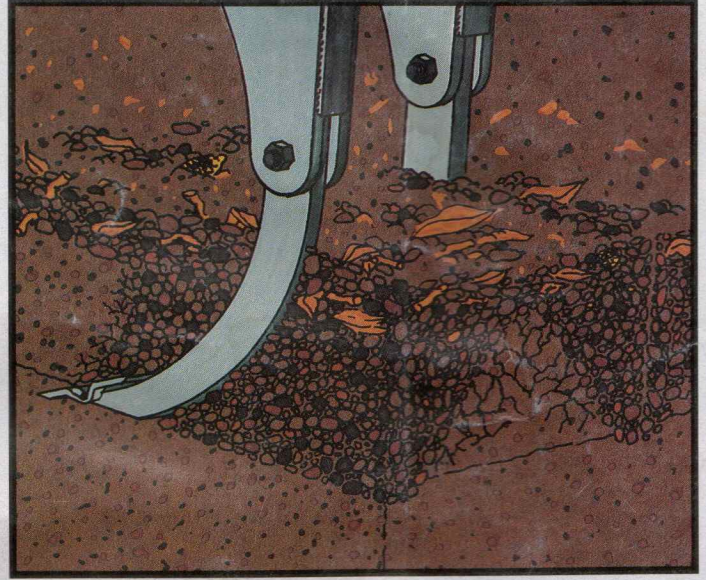
## OPTIONAL EQUIPMENT

Manual Reset Shank Indicators Disc Scrapers V-Chisel Gauge Wheel (includes 15" wheels and 9.5L x 15-6 ply rated tires) Coulter Units (includes 17" diameter fluted spring loaded coulters) Automatic Reset or Manual Reset Shanks, 1¼" Wide x 36" High Safety Light Kit	Hitch Safety Chain Kit Ridgmaster Drag Bar Harrow
--	---

# RIP INTO ACTION AGAINST COMPACTION!



Few question the fact that the compaction of soil has a dramatic effect on yields. The question is: What can you do about it? Compaction, caused by repeated use of heavy equipment, is a problem that will be present every year. Every time you cross a field during any farming operation you add to the problem. Compaction is usually limited to the approximate depth of one foot. Soil below this point is relatively loose. Here, the agronomist is pointing out the plow sole and the compacted ground above it. Notice the roots which manage to grow through the compaction are thinner where they must squeeze through cracks in the sole. Once they have passed this point, further growth is unhindered. To increase yields you must reduce these restrictions by breaking up the compacted zone and the plow sole. This is especially important during a dry year when roots must grow deeper to reach the moisture the plants need.



The M&W Earthmaster Conservation Tillage System removes this barrier by penetrating below the zone with special parabolic shanks and lifting up to shatter compaction. Other tillage tools use shanks which push through the soil leaving only partially fractured ground.

The chisel shank needs to penetrate only an inch or two below the barrier. Ripping any deeper requires more horsepower and does little good. With the 24" shank spacings preset by M&W, the Earthmaster leaves a "pyramid" between the shanks of coarsely fractured soil to support planting and cultivating equipment and reduce recompaction. The more finely fractured area provides more room for root growth and roots are free to grow as deeply as necessary to reach nutrients.



# M&W<sup>®</sup>

M & W GEAR COMPANY  
ROUTE 47 SOUTH  
GIBSON CITY, ILLINOIS 60936  
PHONE: 217/784-4261 FAX NO.: 217/784-4326

4428R792 Supersedes 4428R491

