

700 AND 750 GRINDER-MIXERS



OPERATORS MANUAL 700 AND 750 GRINDER-MIXERS

OMN159522 F9 English

JOHN DEERE DES MOINES WORKS
OMN159522 F9

LITHO IN THE U.S.A.
ENGLISH





To The Operator



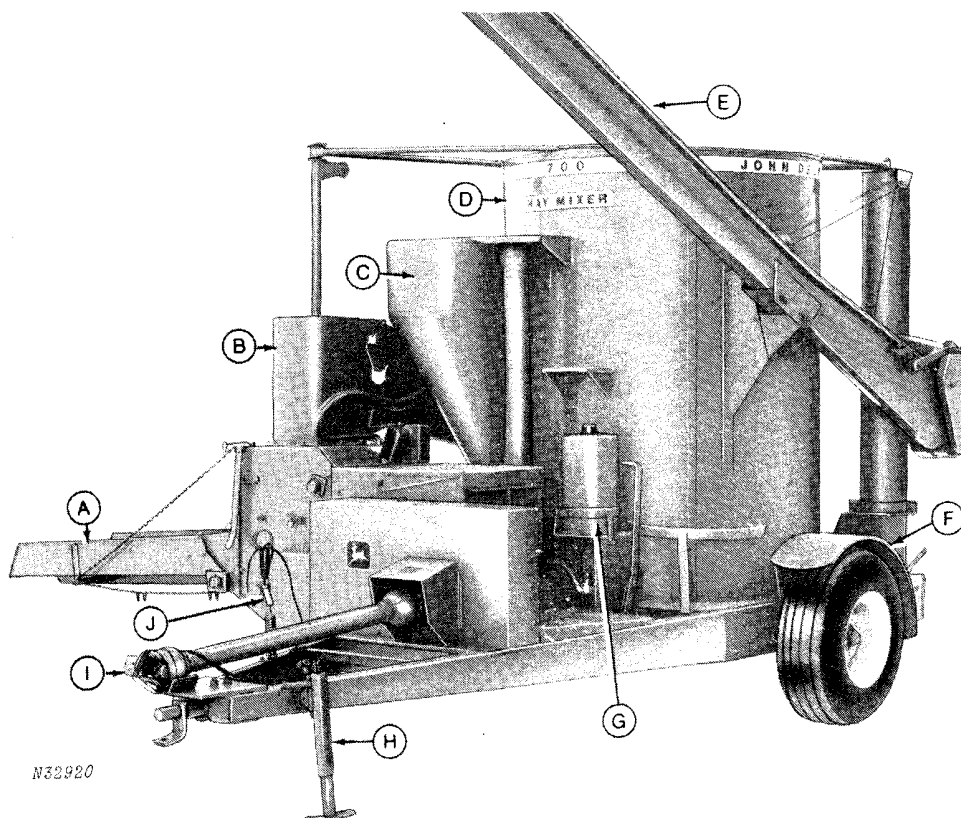
This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

"Right-hand" and "left-hand" sides are determined by facing in the direction the grinder-mixer will be towed when transporting.

Record your model and serial numbers on page 47.

Your warranty appears on your copy of the purchase order copy which you should have received from your dealer.

Measurements are shown with their respective Metric equivalents throughout this operator's manual. These equivalents are the SI (International System) Units of Measure.



N32920

A—Hay Conveyor
B—Auger Feeder

C—Dust Collector
D—Mixing Tank

E—Unloading Auger
F—Fender

G—Hydraulic Attachment
H—Jack Stand

I—Powershaft
J—Electronic Scale
Power Cord



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Safety

OPERATE SAFELY

DO NOT operate grinder-mixer without reading this operator's manual.

DO NOT allow another person on the tractor or grinder-mixer when operating.

DO NOT start tractor engine with gears or levers engaged.

Be aware of overhead wires and know the height of your grinder-mixer.

Block rear of loaded grinder-mixer when unhitching from tractor.

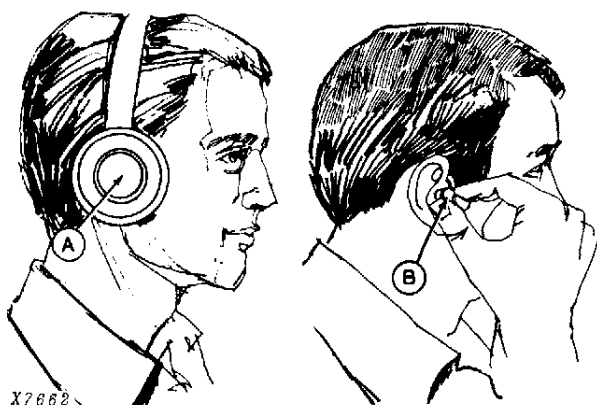
Make sure tractor has the correct front end ballast, see tractor operator's manual.

Avoid Contact With Moving Parts

Keep hands, feet, clothing away from moving parts.

Shut off tractor engine and remove switch key before servicing or unplugging grinder-mixer.

PROTECT AGAINST NOISE



Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wearing protective devices (such as ear muffs or plugs) can effectively protect against loud noises.

When you are exposed to loud noise which is objectionable or uncomfortable, it is recommended you wear a suitable hearing protective device.

A—Earmuffs
B—Earplugs

AVOID FIRES

DO NOT operate the grinder-mixer without a fire extinguisher nearby.

DO NOT refuel the tractor with engine running.

DO NOT smoke or use a lantern when refueling tractor.

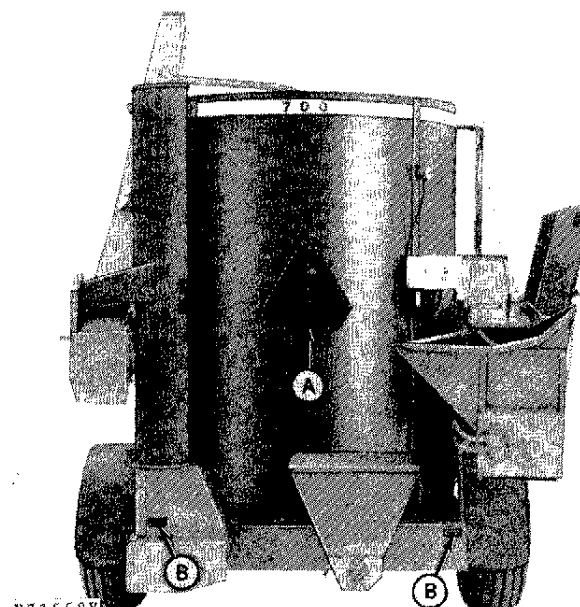
TRANSPORT SAFELY

DO NOT transport without first securing the hay conveyor, auger feeder, and/or unloading auger.

Always raise the jack stand before transporting.

When transporting the grinder-mixer on a road or highway at night or during the day, use necessary lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

Shift the tractor into a lower gear when transporting down slopes or grades.



N31552Y
A—SMV Emblem
B—Red Reflectors

PRACTICE SAFE MAINTENANCE

When mounting a tire on a wheel or rim, failure to follow proper procedures can produce an explosion which can result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

DO NOT service grinder-mixer when operating.

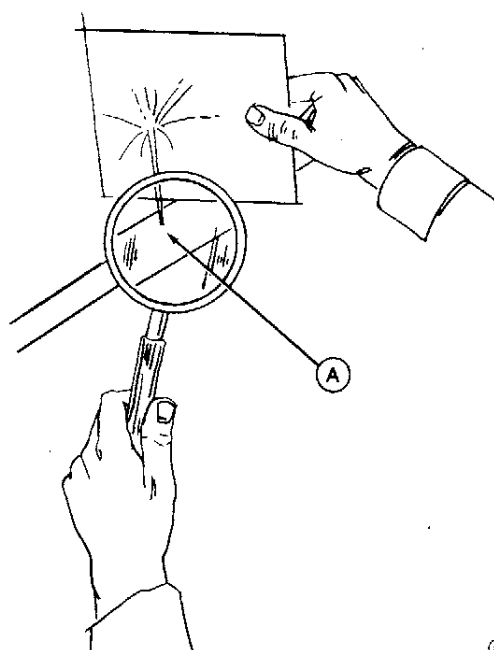
Replace any guards or shields removed for servicing.

When working under grinder-mixer, securely block the wheels.

Escaping fluid under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes and hoses are not damaged.

Fluid escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



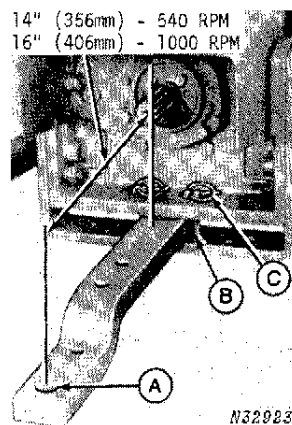
A—Pin Hole Leak

G10317



Preparing For Use

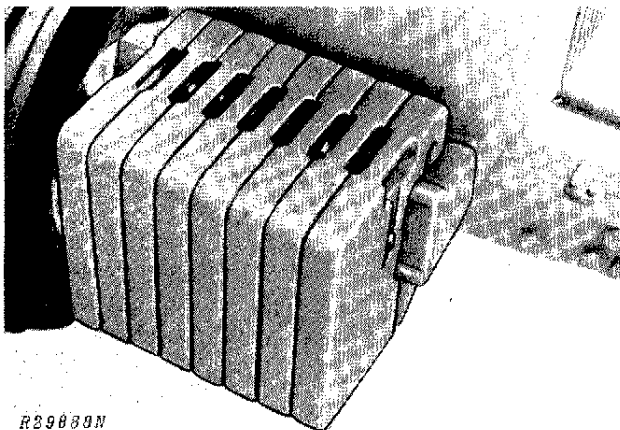
PREPARING TRACTOR



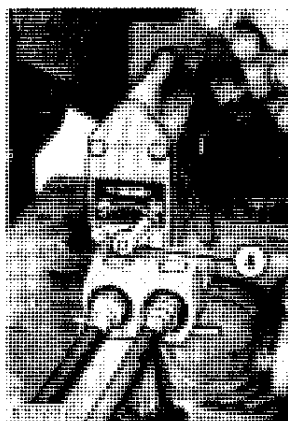
1. Properly position drawbar.
2. Remove PTO guard and store it on the guard retainer.

IMPORTANT: Always install PTO guard on PTO shaft when PTO is not being used.

A—Drawbar Hitch Point Parallel with PTO Center Line
B—Locking Pin
C—Quik-Tatch Pin

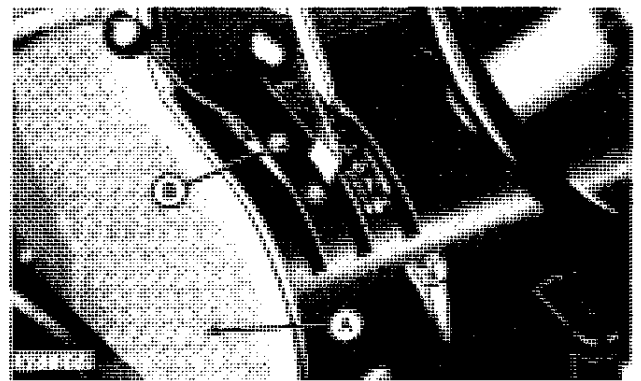


3. Install sufficient tractor front end ballast unless tractor will not be used to transport.



4. (Grinder-mixers WITHOUT self-contained hydraulic attachment) Turn tractor metering valve clockwise.

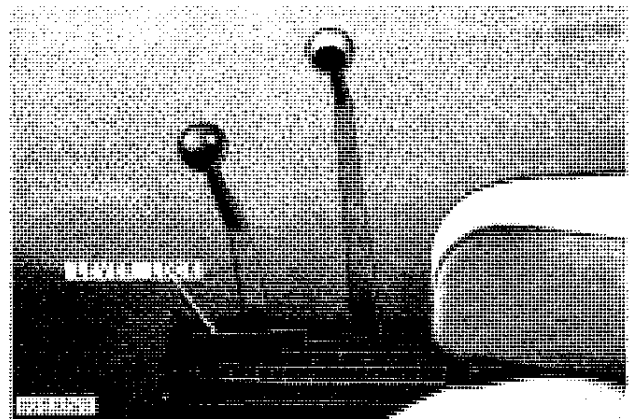
5. (Grinder-mixers WITHOUT self-contained hydraulic attachment AND tractors with closed-center hydraulic systems). Install remote cylinder lever lock.



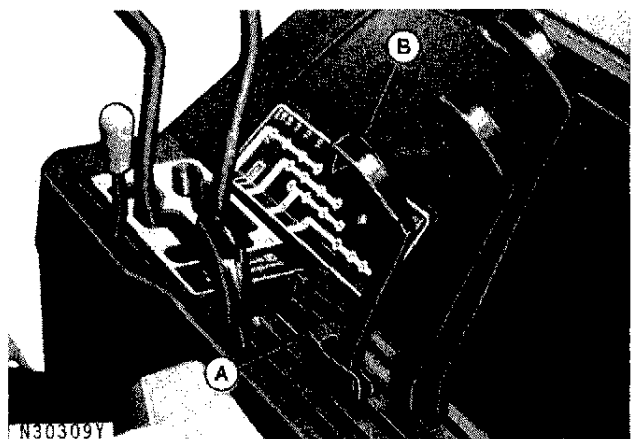
A—Cowl

B—Lever Lock

3020 Tractors Below Serial No. 123,000
4020 Tractors Below Serial No. 201,000
5020 Tractors



2520 and 3020 Tractors Above Serial No. 122,999
4000 and 4020 Tractors Above Serial No. 200,000
4320, 4520, 4620, and 6030 Tractors



A—Lever Lock

B—Lever

4230, 4240, 4430, 4440, 4630, and 4640 Tractors

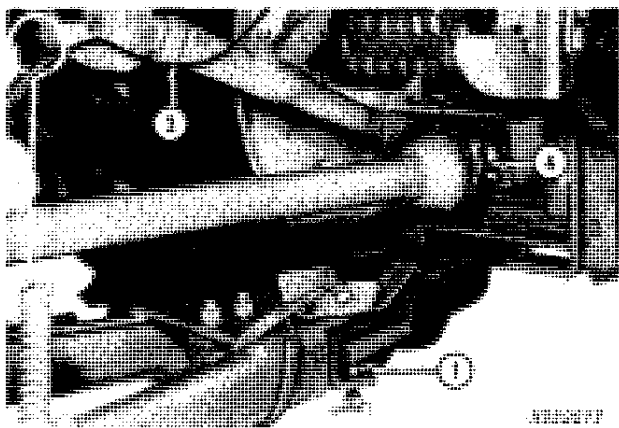
6. (Grinder-mixers WITHOUT self-contained hydraulic attachment AND tractors with open-center hydraulic systems). See page 16.
7. Make sure electrical receptacle is installed if grinder-mixer is equipped with electronic scale attachment.

PREPARING GRINDER-MIXER

Tire	PSI	(bar)	(kg/cm ²)
11L-15, 8 PR	36	(2.5)	(2.5)
12.55L-16, 8 PR	36	(2.5)	(2.5)

Check and maintain recommended tire pressure.

ATTACHING GRINDER-MIXER TO TRACTOR



1. Attach drawbar to hitch, using jack stand to raise or lower hitch.

Note: If hitch pin is 3/4-inch bolt, do not tighten nut until it touches weigh-bar clevis, if equipped.

2. Plug hydraulic hoses into tractor outlets, unless self-contained hydraulic attachment is used.

IMPORTANT: Insert the hose end with a groove into the receptacle with a notch and the other hose into the other receptacle. See your tractor operator's manual for further information on hydraulic cylinder operation.

3. If equipped with scale attachment, plug power cord into receptacle.

4. Connect powershaft to tractor PTO as follows:

Shut off tractor engine.

Move collar (B) back against stop on yoke.

Push button (C) and turn collar (B) until button goes in. This locks collar to yoke.

Turn collar (B) to align yoke with PTO (A) splines.

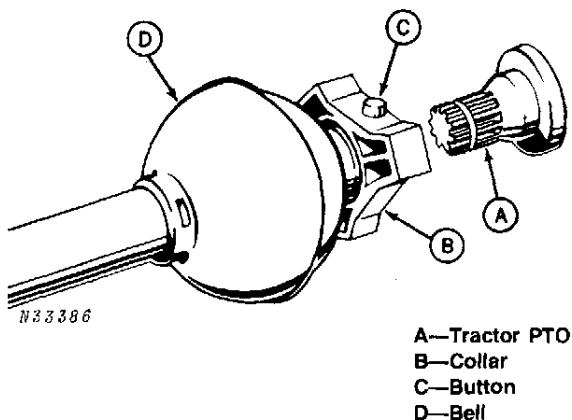
Push bell (D) forward firmly until collar snaps into locked position.

Pull rearward on bell (D) to be sure assembly is latched. Do not pull collar as this will release latch.

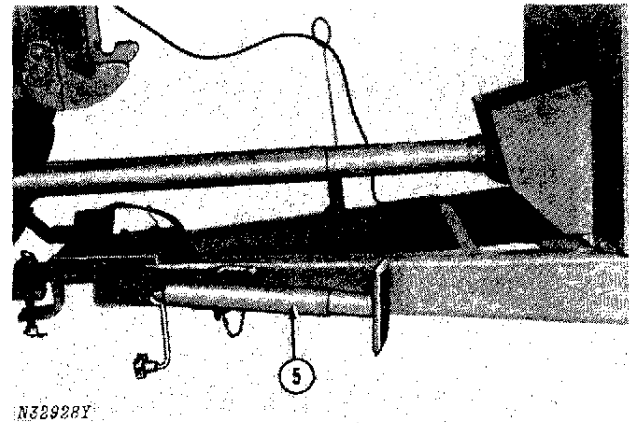


CAUTION: If master shield was removed for ease in connecting, replace it after connection is made.

IMPORTANT: Never operate a 540 rpm grinder-mixer with a 1000 rpm tractor PTO.



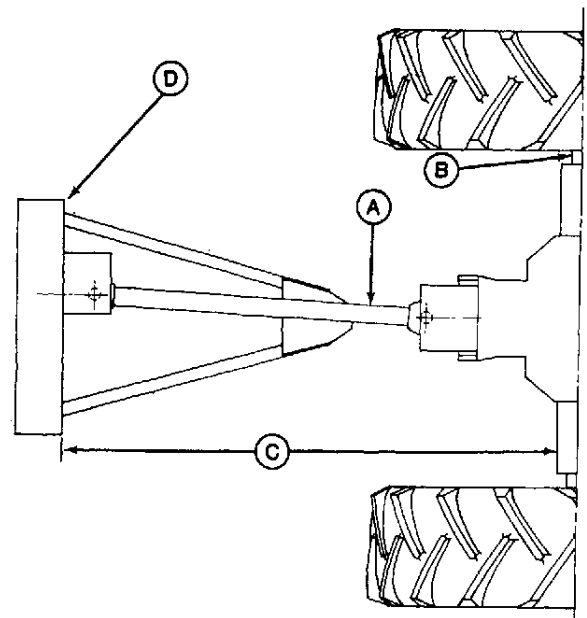
5. Put the jack stand in the field or transport position, as shown.



6. To align powershaft (A), position the tractor so its axle (B) is parallel (C) with the front shield (D) of the grinder-mixer.

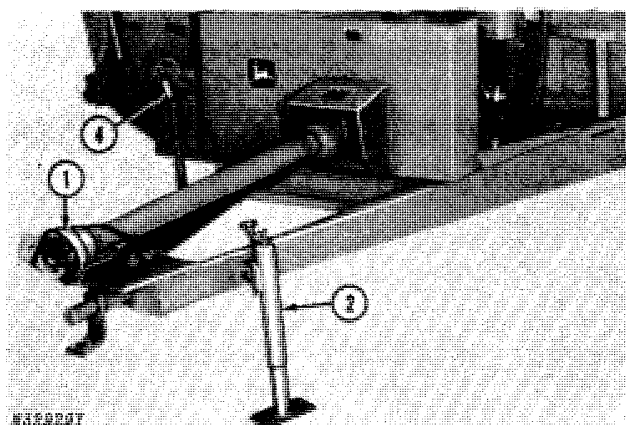
IMPORTANT: When mixing WHILE transporting, avoid sharp turns that could damage powershaft.

7. Raise the tractor lift links up out of the way and secure center link.



A—Powershaft
B—Axle
C—Parallel Lines
D—Front Shield

DETACHING GRINDER-MIXER FROM TRACTOR



CAUTION: To avoid possible backward tilt of the grinder-mixer with a load, always block rear of chassis before unhitching from tractor. Do not remove block while grinder-mixer is unhitched.

1. Disconnect powershaft as follows:

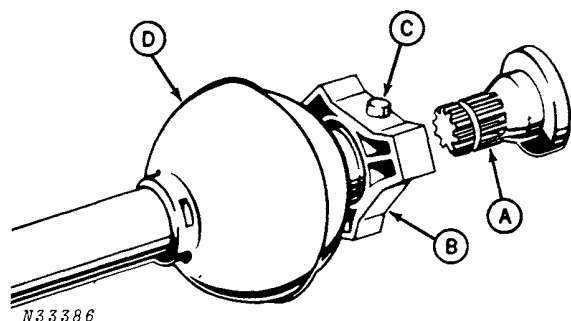
Shut off tractor engine.

Support bell (D) with one hand.

Pull collar (B) back with other hand. Button (C) need not be held down. Place powershaft in hitch holder.



CAUTION: Install PTO guard. Install master shield if removed for detaching.



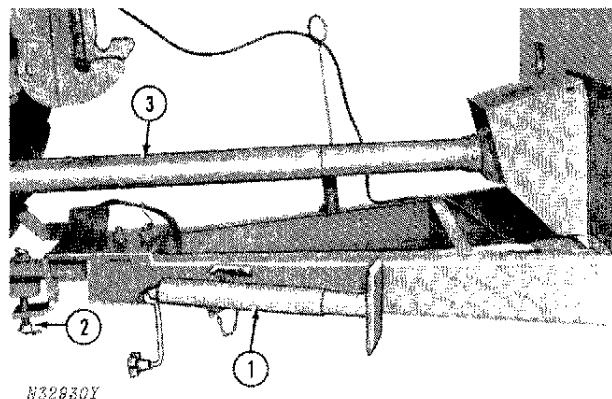
A—Tractor PTO
B—Collar
C—Button
D—Bell

2. Lower jack stand to storage position.
3. Disconnect hydraulic hoses from tractor.
4. If equipped with scale attachment, disconnect power cord from tractor.
5. Remove hitch pin, drive tractor away, and replace pin in grinder-mixer hitch.

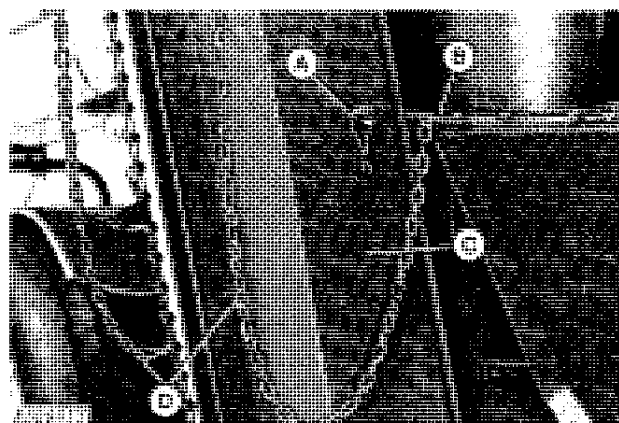


Transporting

1. Remove jack stand latch pin, turn stand to raised position, and install latch pin.
2. Check hitch pin to make sure it is locked with spring locking pin.
3. If desired, disconnect powershaft from tractor and secure it in its carrier.



4. Raise hay conveyor, auger feeder, and unloading auger. Pin to transport brackets.



- A—Spring Locking Pin
 B—Transport Hook
 C—Conveyor Side Wings
 D—Support Chains

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