

Dynamic BMPA-315-112-K-P-H-20220130-215 feed systems motor

### Feed Side:

2 flow control valves  
(1 for feed, 1 for flails)

10" slice of 55 gal. drum  
(other side same))

Tires on 4  
threaded  
rods

4" 1/2  
center  
to side

2 1/2" x 2" x 3" angle iron

Shut-off

Hydraulic line guard/branch rest 2 1/2" x 2 1/2" x 54"

Feed roller axle  
centers 8 1/4" apart

Trailer side cut out for leaf bin;  
Wooden beam bolted in for travel.

7" C beam

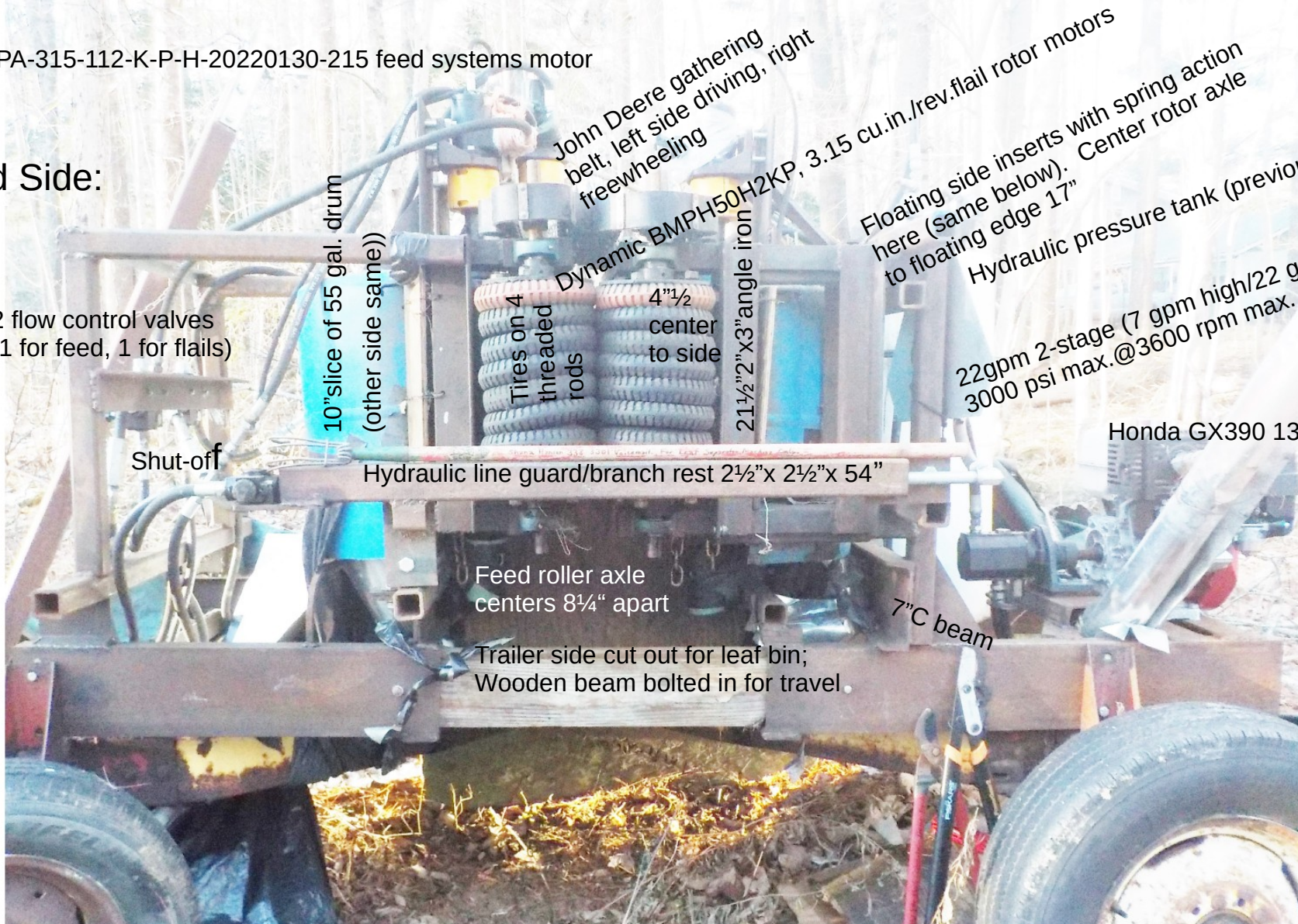
John Deere gathering  
belt, left side driving, right  
freewheeling

Dynamic BMPH50H2KP, 3.15 cu.in./rev.flail rotor motors

Floating side inserts with spring action  
here (same below). Center rotor axle  
to floating edge 17"

Hydraulic pressure tank (previously propane)  
22gpm 2-stage (7 gpm high/22 gpm low stage)  
3000 psi max.@3600 rpm max. hydraulic pump

Honda GX390 13 horse engine





34.75" across this end at top

Flow Control Valves;  
L controls feed-rollers/gathering belt speed  
R controls flail speed.

Trailer tongue chained up for safety



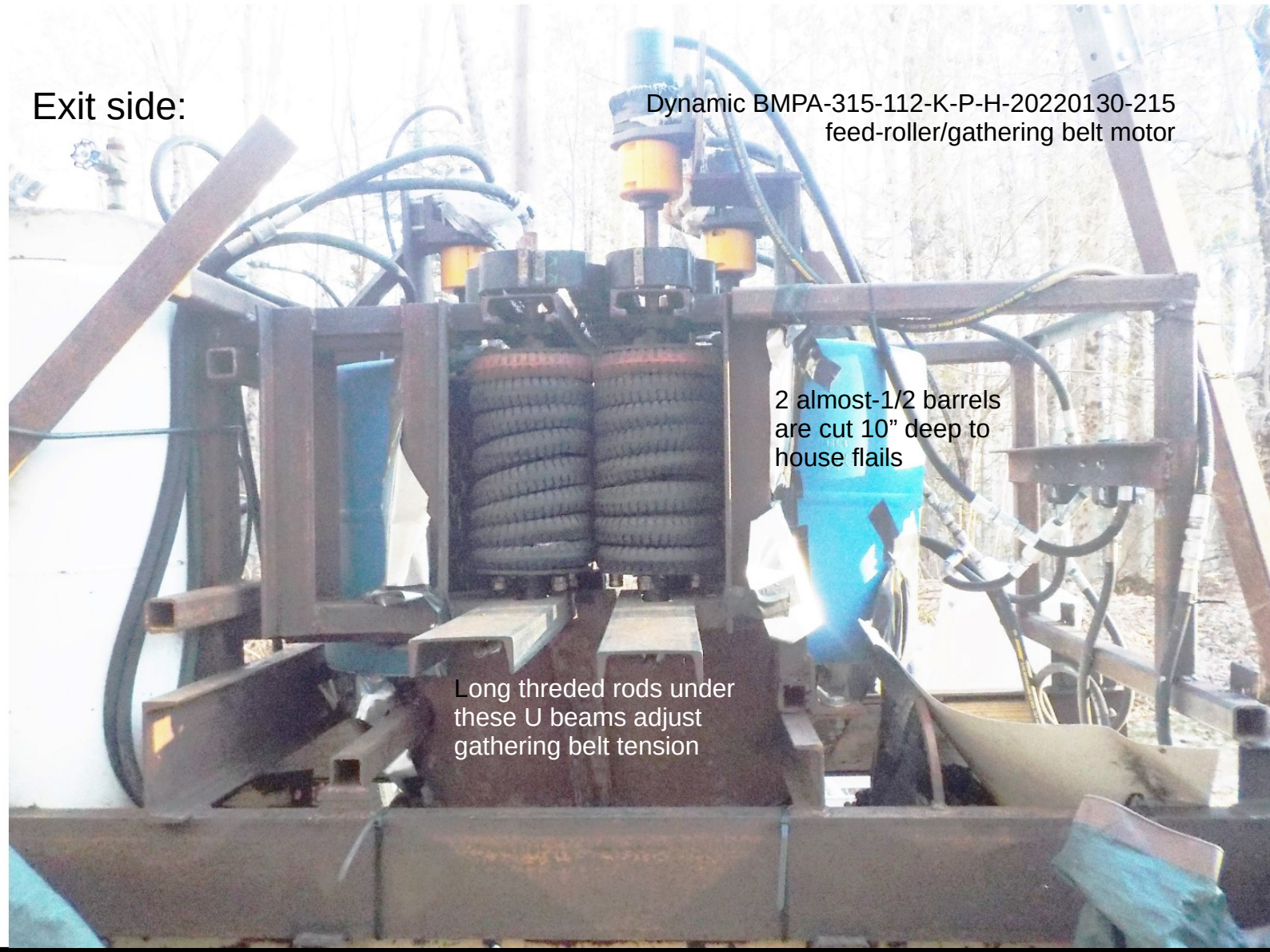


Exit side:

Dynamic BMPA-315-112-K-P-H-20220130-215  
feed-roller/gathering belt motor

2 almost-1/2 barrels  
are cut 10" deep to  
house flails

Long threaded rods under  
these U beams adjust  
gathering belt tension





Aluminum flashing exhaust pipe  
re-directs fumes.

Tow at  
20 mph max

Tows at  
20 mi/hr max

Hydraulic  
pressure-tank is  
re-purposed  
propane tank.

The 4-wheeled home-made  
farm trailer is tricky to back up.  
Pull-start parts are on their  
way, after Shana released the  
trailer and rolled it into a pine  
tree, trying to get out of traffic  
by the narrow 3 Streams Farm  
driveway







Shaft centers 29.75" apart



Flail rotor centers are set 16" back from plane of feed-roller centers, and 12" back from front of support irons.

Exit-roller centers are closer – 13.5" back from plane of flail rotor centers.

Feed- and exit-roller axles are 1" x 28", with centers 8.25" apart

Centers of flail rotors are 20" apart.

Flail rotors 4.5" square x 20" long.

Chains 3/8" x 5 or 6 links x 9 chains/rotor, attached in spiral pattern, to blow leaves downward.

Flails rotate inward toward front of machine, against the direction of feed.



This photo-diagram is a work-in-progress.

Feel free to call  
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or Karl Hallen  
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with further questions  
about the machine.