



CAPTAIN
Pioneer of The Mini Tractor

FLYWHEEL HOUSING REPLACEMENT IN MODEL 223



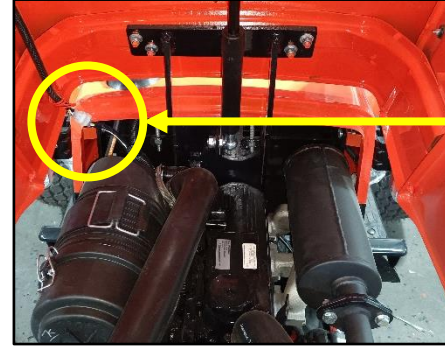
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STEP :- 01



Bonnet Key

R.H Side View



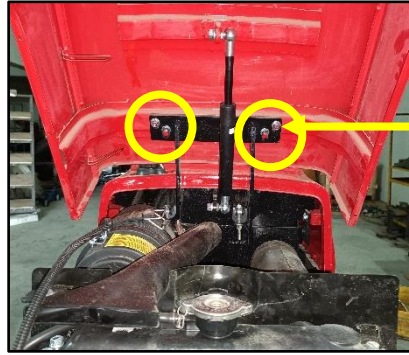
Head Lamp Coupler



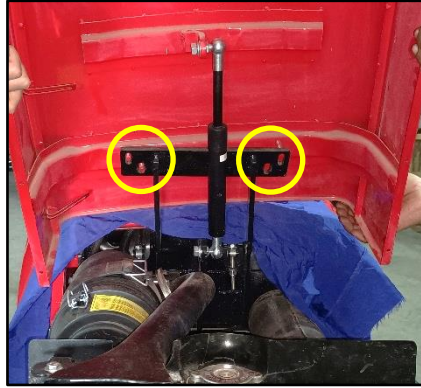
Open the bonnet lock by rotating key in clockwise direction as shown in above photo.

Disconnect head lamp coupler as shown in above photo.

STEP :- 02



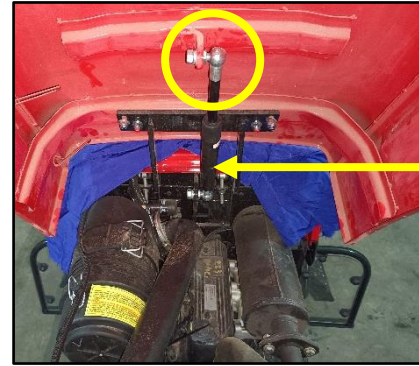
Nylock Hex Nut (M8)



Untighten the nylock hex nut (M8) & plain washer (Ø8.5xØ19x1.5) using 13mm spanner as shown in above photo.



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Auto Lift Gas Spring

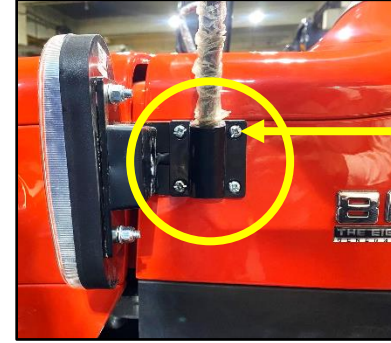


Untighten the hex nut of auto lift gas spring using 17mm spanner as shown in above photo.

STEP :- 03



Now take out the bonnet from the tractor.



Pan Head Screw (M6X20)



Remove the RH & LH side head screw (M6X20) of mirror & indicator lights using screwdriver and take out the mirror & indicator light.

STEP :- 04



Disconnect the RH & LH side indicator light socket as shown in above photo.



Cap Steering Control Wheel



Nut (M14X1.5)

Steering Control Wheel

Remove steering cap & untighten the steering nut (M14X1.5) using 22mm spanner.



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STEP :- 05



Grip Hand Throttle
Lever

Steering Control
Wheel



Take out the steering control wheel & grip hand throttle lever as shown in above photo.



L.H Side View

Hex Bolt (M6X15 (F.T)
8.8)



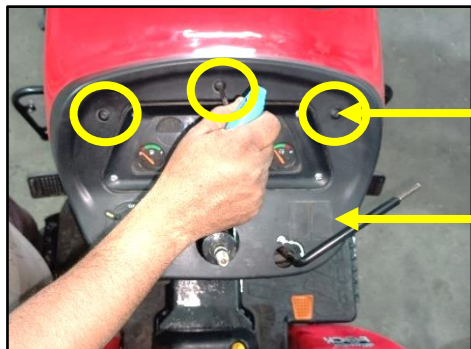
R.H Side View

Untighten skirt panel hex bolt (M6X15 (F.T) 8.8) & plain washer (Ø6.5xØ23x1.5) using 10mm T-spanner.



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STEP :- 06



Head Screw (M6X20)

Instrument Panel



Instrument Panel



R.H Side View

Instrument Panel



L.H Side View

Instrument Panel

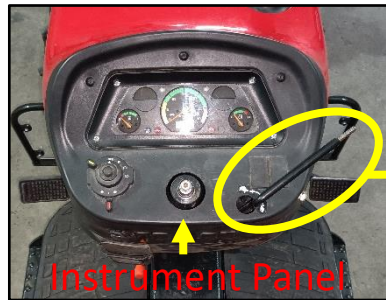
Untighten instrument panel screw (M6X20) using 5mm Allen key.

Untighten side screw (M6X20) of instrument panel & Nylock nut M6 using 5mm Allen key & 10mm fix spanner.



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STEP :- 07



Top View

Spring Washer
(8mm)

Hex Nut
(M8)

Inside View of Instrument
panel



Untighten hex nut (M8) of hand lever using 13mm spanner. Disconnect all the wiring socket of instrument panel as shown in above photo.

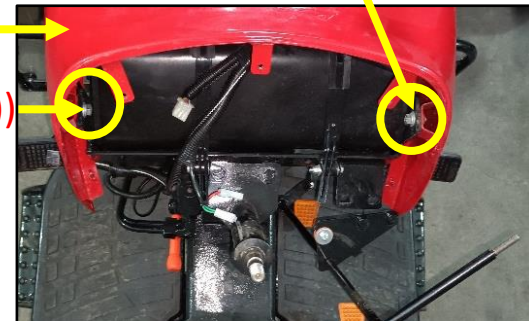


Instrument Panel

Spring Washer 8mm

Dashboard

Hex Bolt (M8X20 (F.T))

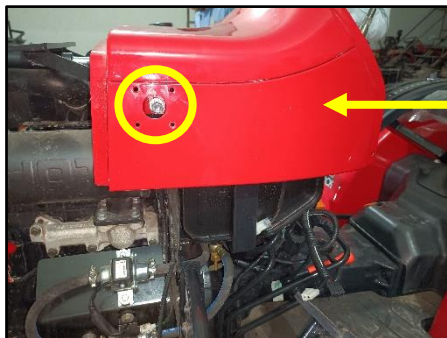


Take out the instrument panel as shown in above photo. Untighten the dashboard hex bolt (M8X20) & spring washer (8mm) using 13mm spanner.



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STEP :- 08

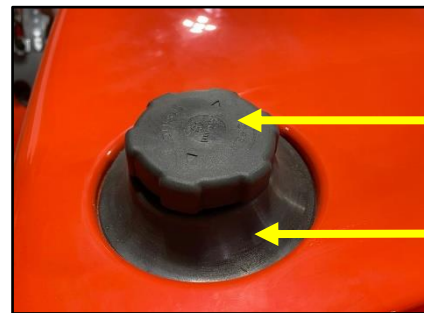


L.H Side View

Dashboard



R.H Side View



Fuel Tank Cap

Rubber Cover Fuel Tank



Untighten Nylock hex nut (M8) by using 13mm spanner as shown in above photo.

Remove fuel tank cap & rubber cover fuel tank as shown in above photo.

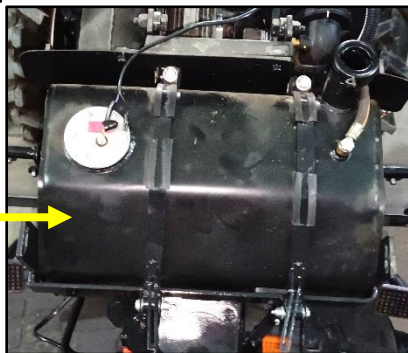


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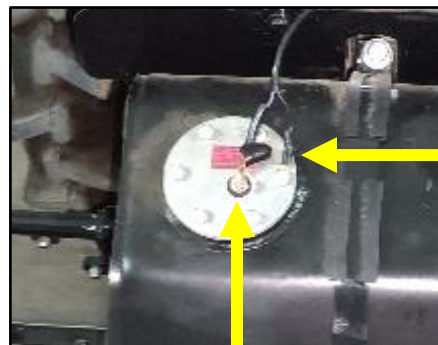
STEP :- 09



Dashboard



Fuel Tank



Fuel Gauge Connection

Earthing Wiring
Connection



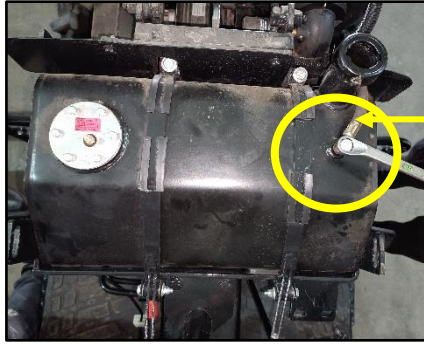
Remove fuel tank gauge wiring connection using 7mm spanner.

Then remove earthing wiring connection using 8mm spanner.

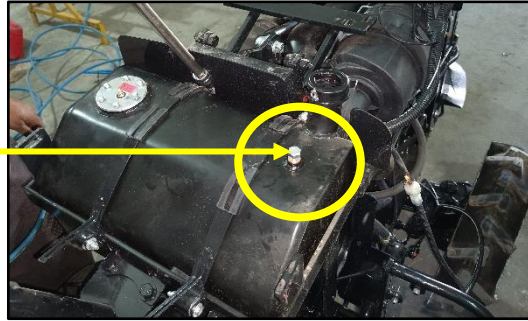
Now take out the Dashboard



STEP :- 10

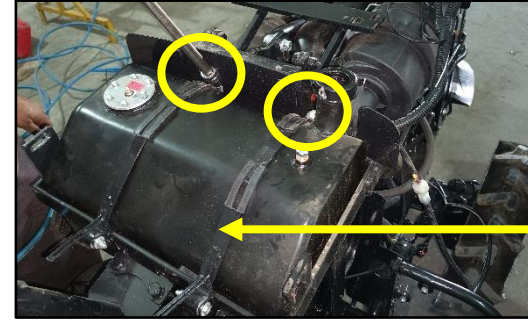


Overflow Pipe

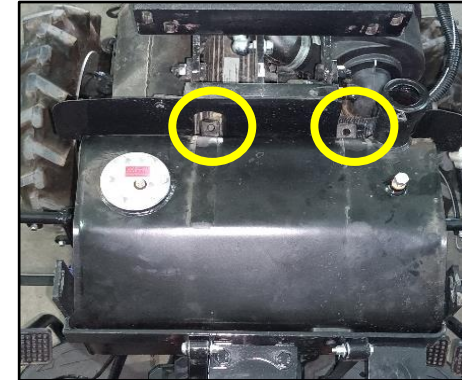


Banjo Bolt (M14)

Untighten banjo bolt (M14) & copper washer ($\varnothing 14 \times \varnothing 21 \times 1.5$) using 14mm spanner & remove the overflow pipe as shown in above photo.

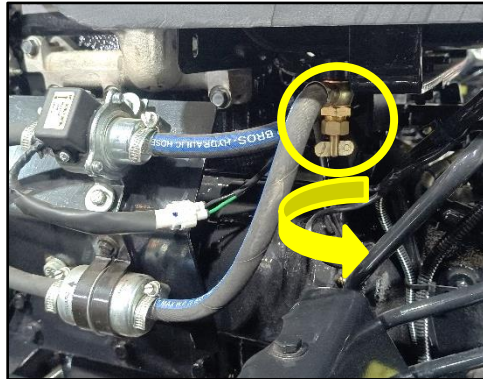
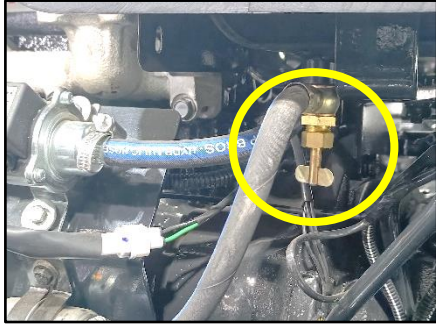


Fuel Tank Cage Belt

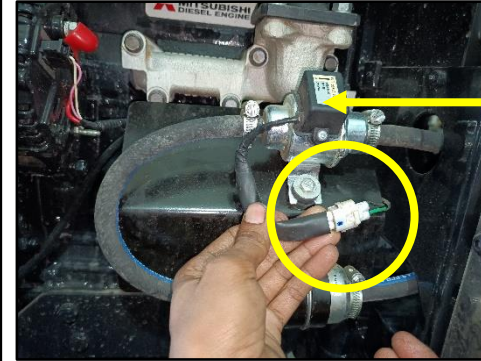


Untighten fuel tank cage belt mounting bolt & hex nut using 13mm spanner as shown in photo.

STEP :- 11



Close the fuel cock by rotating the knob in clockwise direction.



Pump Assy, Fuel

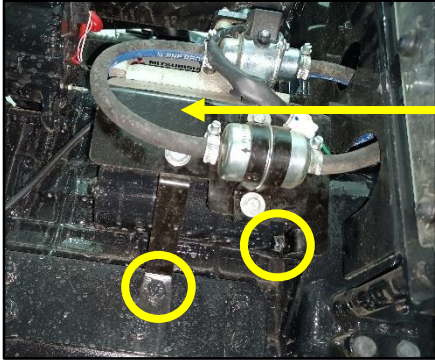


Disconnect the electric connection of fuel pump assembly. Place a pan below pump assembly & lose both clamps using 7mm spanner as shown in above photo.

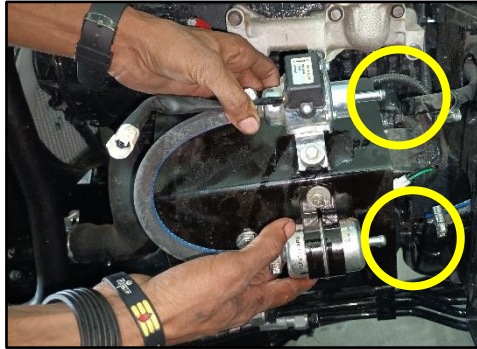


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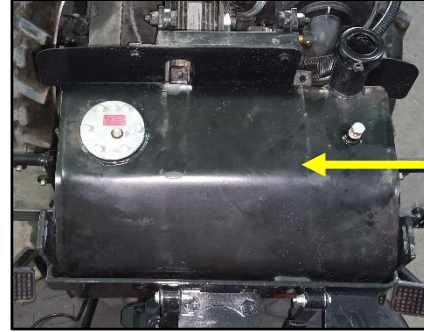
STEP :- 12



Bracket Fuel Feed Pump



Untighten the bracket fuel feed pump hex bolt using 12mm spanner. Now disconnect fuel line as shown in above photo & take out the bracket fuel feed pump assy.



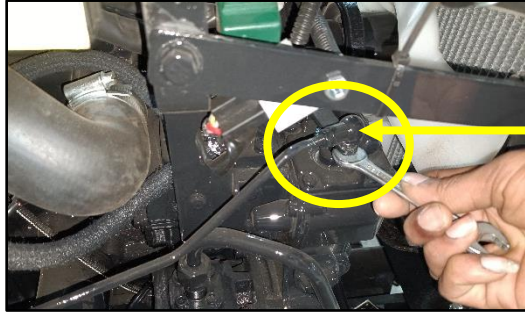
Fuel Tank



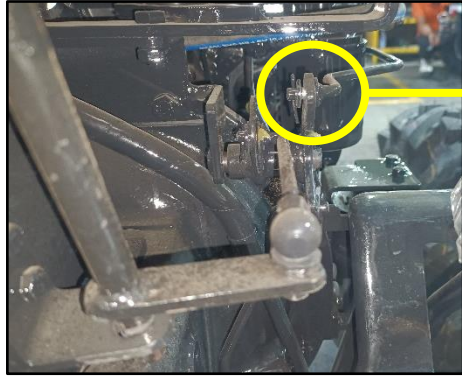
Fuel Tank Cage

Now lift out the fuel tank from fuel tank cage as shown in above photo.

STEP :- 13



Rod - Accelerator



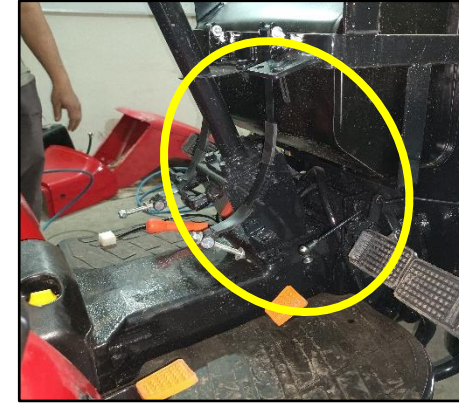
Split Pin

Disconnect accelerator rod using 10mm spanner & also remove split pin from another end as shown in above photo.



Hand Accelerator Assy

Link Hand Throttle Lever

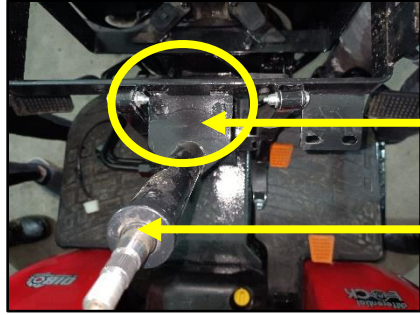


Untighten hex nut of hand throttle lever using 10mm spanner & remove the hand accelerator assembly.



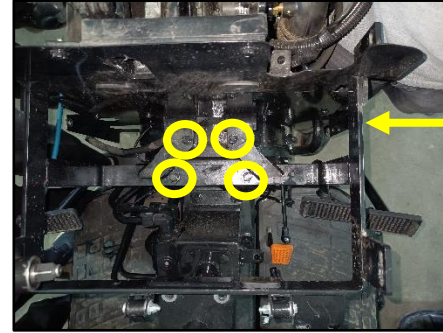
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STEP :- 14



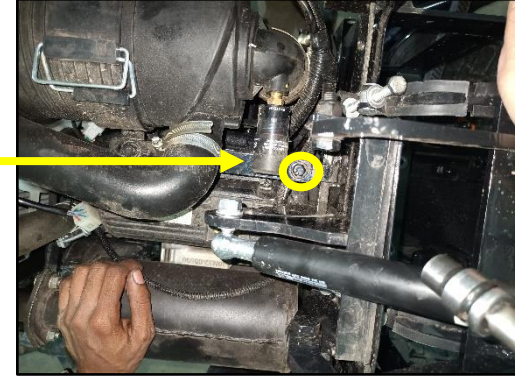
Fuel Tank Cage Mounting
Bracket

Steering Colum Assy



Fuel Tank Cage

Air Filter Mounting
Bracket



Untighten the hex bolt of fuel tank cage mounting bracket using 16mm spanner as shown in above photo.

Untighten hex bolt of fuel tank cage & air filter bracket using 13mm & 16mm spanner as shown in above photo.

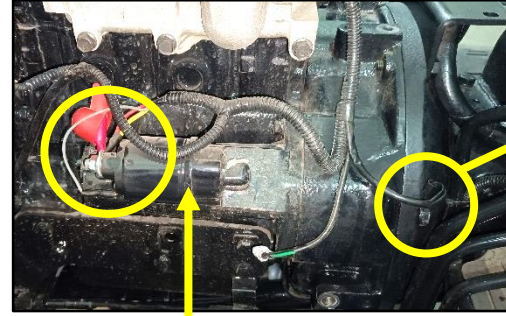
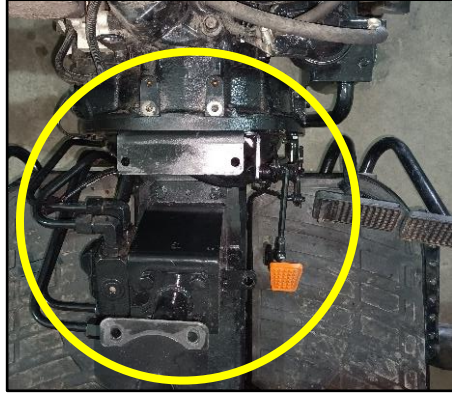


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Tractor

STEP :- 15



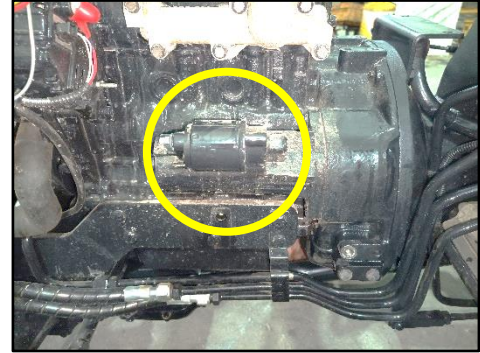
Fuel Tank Cage



Starter Assy



Earthing



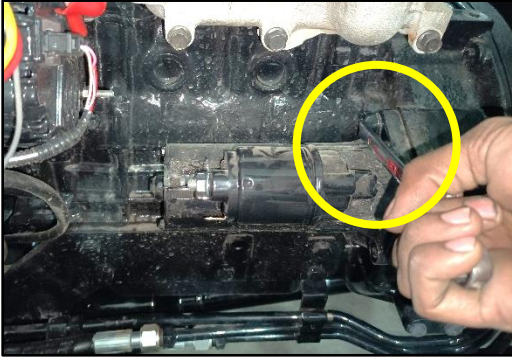
Now take out the cage assembly as shown in above photo.

Disconnect electrical connections of starter assembly & earthing cable from clutch housing as shown in above photo.



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STEP :- 16



Starter Assy



Untighten the starter assembly hex bolt using 12mm spanner & take out the starter assembly as shown in photo.



Rear Mounting



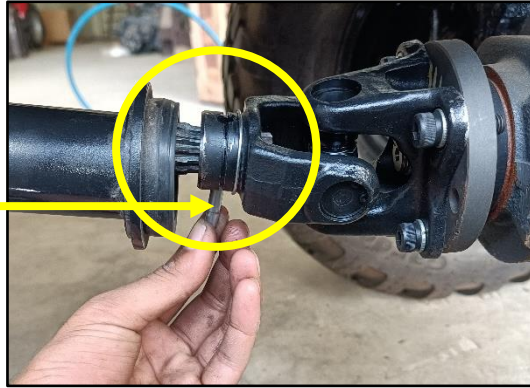
Front Mounting

Untighten propeller guard bolt using 13mm & 10mm spanner as shown in above photo.

STEP :- 17



Snap Ring for Shaft
(DIA 32)



Dowel Pin Universal
Joint

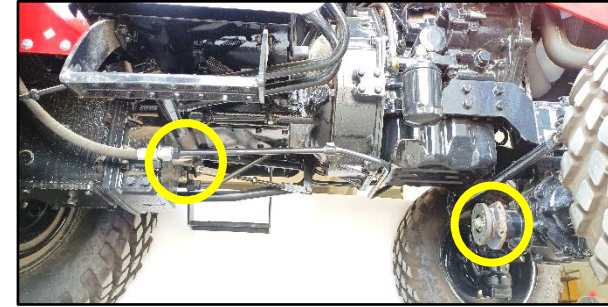
Shift the snap ring from yoke & take out dowel pin from universal joint as shown in photo.



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Universal Joint Assy
(Cross Holder With
Yoke)

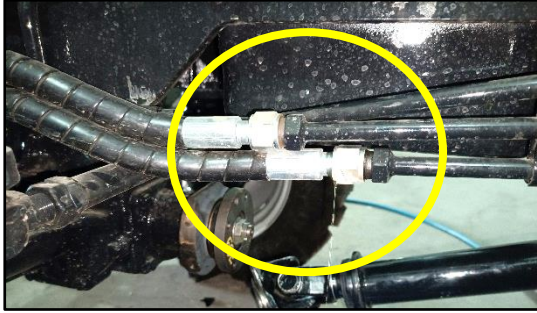


Untighten universal joint assembly (cross holder with yoke) using 6mm allen key & remove propeller shaft as shown in photo.

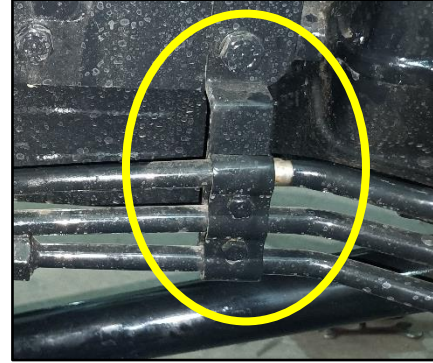


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STEP :- 18



Place oil pan below tractor & disconnect power steering hose pipe using 24mm spanner.

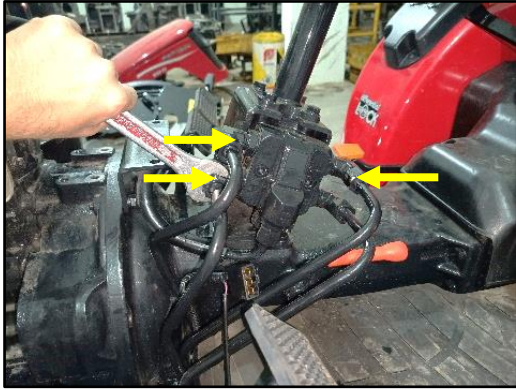


Untighten clamp for power steering pipe using 10mm spanner as shown in above photo.



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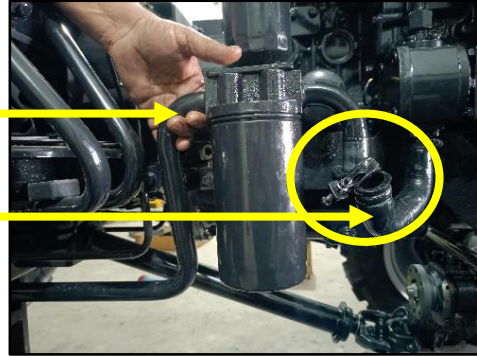
STEP :- 19



Hex Bolt (M8X20 (FT))

Suction Filter Head

Suction Hose



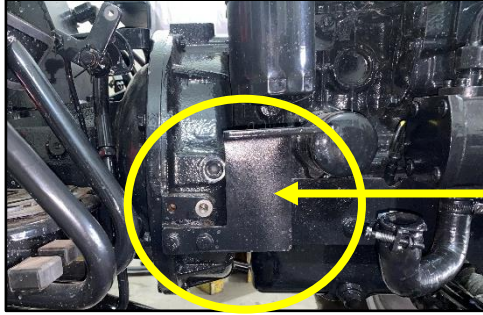
Loosen the 3nos of power steering pipe using 24mm spanner & loosen the suction pipe wire clamp using 10mm spanner.

Untighten the suction filter hex bolt (M8X20) (FT) using 13mm spanner. Disconnect suction filter head from suction hose.

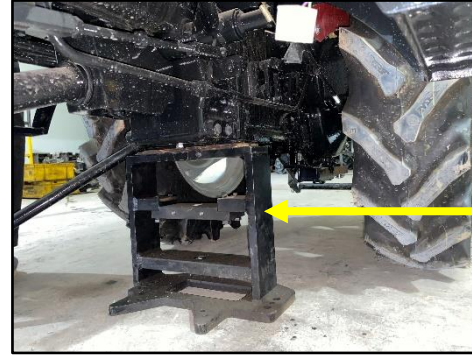


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STEP :- 20



Bracket – Oil
Filter



Support
Frame/ Jack

RT Below View

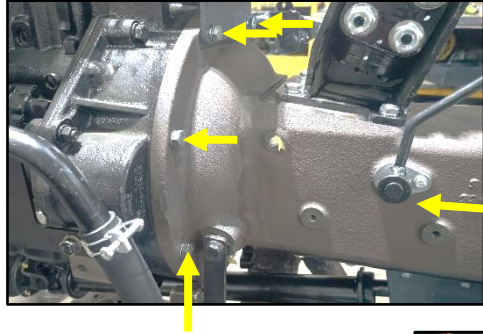
Manual Forklift



Loosen bracket of oil filter hex bolt using 14mm spanner & take out the oil filter bracket as shown in photo.

Place a support frame/jack below rear transmission & lift the engine front on manual forklift as shown in above photo.

STEP :- 21



Clutch Housing

Hex Bolt 10X45X1.25P

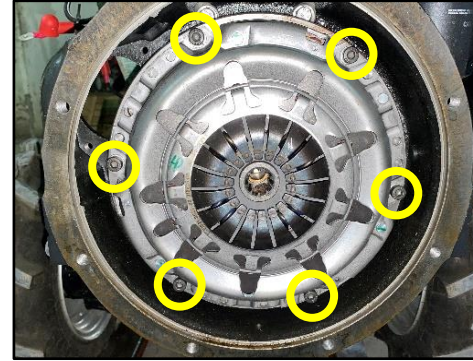
PULLER



Untighten 8nos of clutch housing hex bolt 10X45X1.25p using 16mm spanner. Now separate the clutch housing & engine fly wheel housing as shown in photo.



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There is an Indication on Friction Plate "Fly Wheel Side"

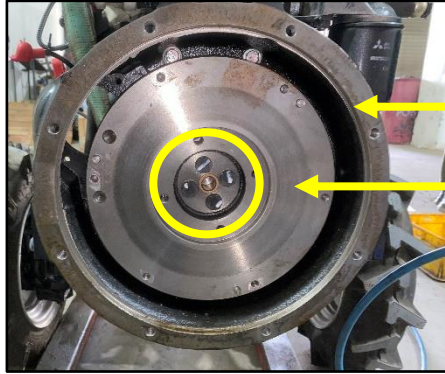
Fly Wheel

Clutch Assembly



Untighten clutch plate Allen bolts using 6mm Allen key & take out the clutch assembly as shown in above photo.

STEP :- 22

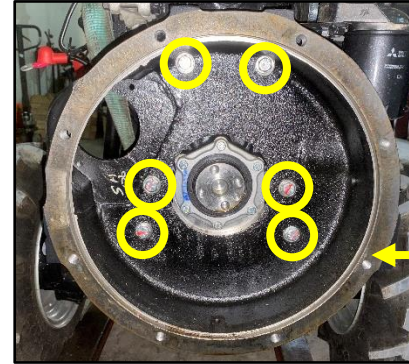


Fly Wheel Housing

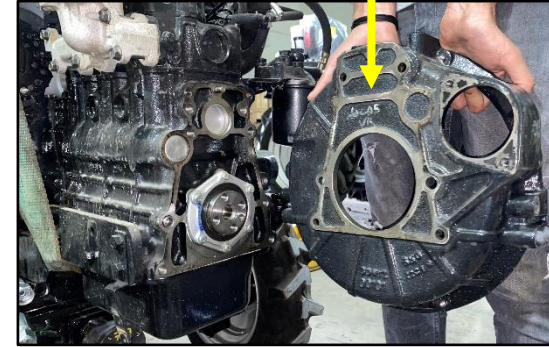
Fly Wheel

Fly Wheel Housing

Fly Wheel



Fly Wheel Housing



Untighten fly wheel bolt using 17mm spanner & take out the fly wheel as shown in above photo.

Untighten fly wheel housing hex bolt & washer using 14mm spanner & take out the fly wheel housing as shown in above photo.

SAFETY MEASURES

- Wear Protective Gear While Servicing Tractor.
- Keep floor clean while working to avoid slipping.
- Only allow experienced Technician to attempt services on tractor.

FOR ASSEMBLY OF TRACTOR
PLEASE PROCCED THESE STEPS
IN REVERSE ORDER.

THANK YOU...