

DISMANTLING -SEPARATING ENGINE AND TRANSMISSION

- UPDATED CHARLES 140525

[ZOHO LINK](#)

[LINK TO DISMANTLER TRAINING TABLE](#)

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OVERVIEW

We have limited hoist and we want to be efficient by dismantling the maximum number of cars each day ,so partp of the job

(i.e engine separation is done is a separate place by other staff)

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SET UP/TOOLS FOR DOING THIS TASK :

- REQUIRED TOOLS TO SEPARATE ENGINE AND TRANS
- [DAILY REPORT SHEET](#) - have this book marked on own computer
- CLIPBOARD
- PEN
- SKIDS
- STEEL STRAPPING AND CLIPS
- BLUE CLOTH TAPE
- WORK GLOVES
- CARDBOARD TAGS
- BLUE BALLPOINT PEN
- YELLOW PAINT MARKER
- SAFETY GLASSES

STEPS

PROCESS FOR ENGINE/TRANS SEPARATION

-Dismantler to put engine/trans assembly in crate in area next to engine separation area, engine and trans should have tag attached

TIP:Have empty or partially empty crate ready ,this is your task so dismantlers can put in this will save you time over dismantlers just putting on the ground ,if we don't have crates advise your manager before we run out



-Using crate bring engine and gearbox to work area

-Use gantry to pick up engine and take to work bench ,use safe guide for gantry use , i.e don't work under item on gantry or have feet under gantry ,make sure chains are secure

- Before you separate eng/gbox write down stock and tag number on sheet so that we are able to track down if needed .

Fill in

- Circle engine or gearbox ,
- Note stock number,
- Note tag number
- Note model
- For location - this is used for a SEPARATE task if we are putting engines/boxes away in tower

Sample how should be

ENGINE AND GEARBOX LOCATION SHEET					
	PART TYPE	STOCK NUMBER	TAG NUMBER	MODEL	LOCATION
1	ENGINE/GEARBOX	C12345	611610	CX5	
2	ENGINE/GEARBOX	C12345	611611	CX5	
3	ENGINE/GEARBOX	C12111	612244	1X35	
4	ENGINE/GEARBOX	C12111	612245	1X35	
5	ENGINE/GEARBOX				

CHECK OIL - drain excess

--Check all oil is removed from engine or trans prior to commencing task

If unit has oil then have this removed prior to strapping onto pallet



ITEM PRESENTATION

eng/gbox should be in a presentable condition that's why we remove all hose fittings do not just cut –



-Tape up open manifolds if required using blue cloth tape
(make sure to have enough tape ,if you need more see manager)



-RED CAP TO BE USED IF INLET OR EXHAUST PORTS ARE NOT COVERED IF
CORRECT SIZE IS NOT AVAILABLE USE BLUE CLOTH TAPE



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CHECK FOR DAMAGE

WHILE Handling ENGINE OR TRANS ,CHECK FOR C GRADE

if you notice additional damage not noted in items description notify your manager

If manager not available then put in core / C grade crate - dont put away

ACCESSORY PARTS

i.e starter , alternator, a/c compressor

remove accessory items – starter – alternator - a/c compressor -and put in core bags

Do not throw parts into core bags; handle them with care

Ensure parts are placed gently in core bags to prevent damage.



ENGINE WIRING HARNESS

These should not be cut , check that they arent and if they are then we need to cut the wiring harness as close to the plugs as possible and put in your own engine wiring ICB

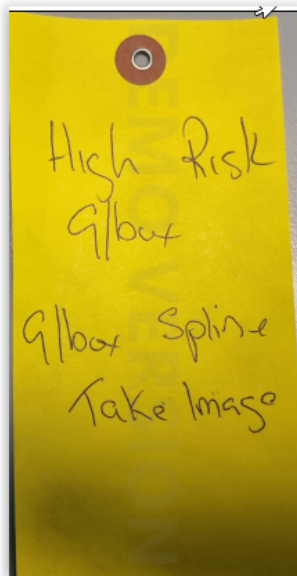


AUTOMATIC TRANSMISSION

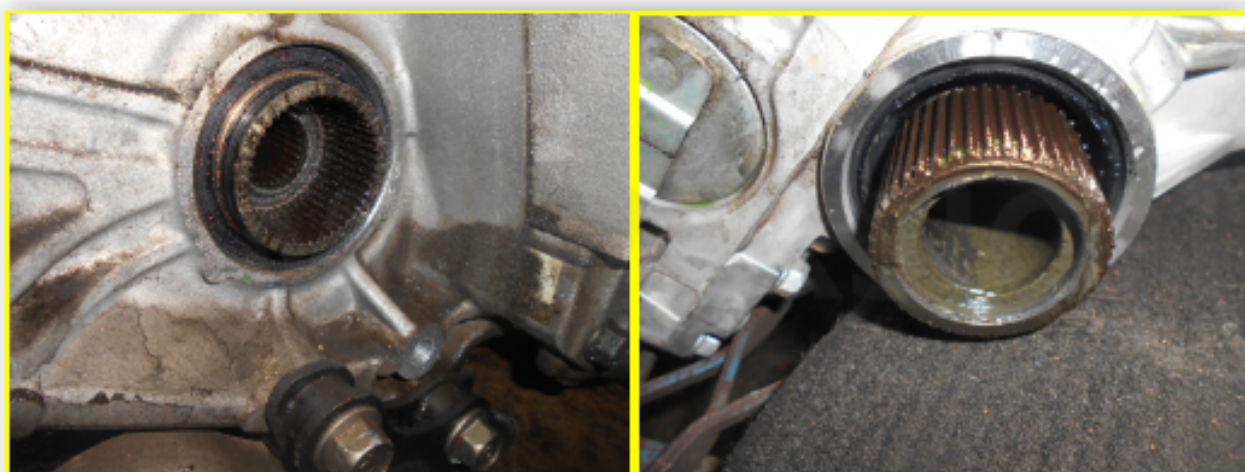
[SEE SEPERATE GUIDE](#)

HIGH RISK GEARBOXES WHERE WE SPLIT TRANSMISSION AND TRANSFER CASE FOR INSPECTION

You will see this is required as there will be a yellow TYVEK tag noting "HIGH RISK/GBOX - G/BOX SPLINE TAKE IMAGES"



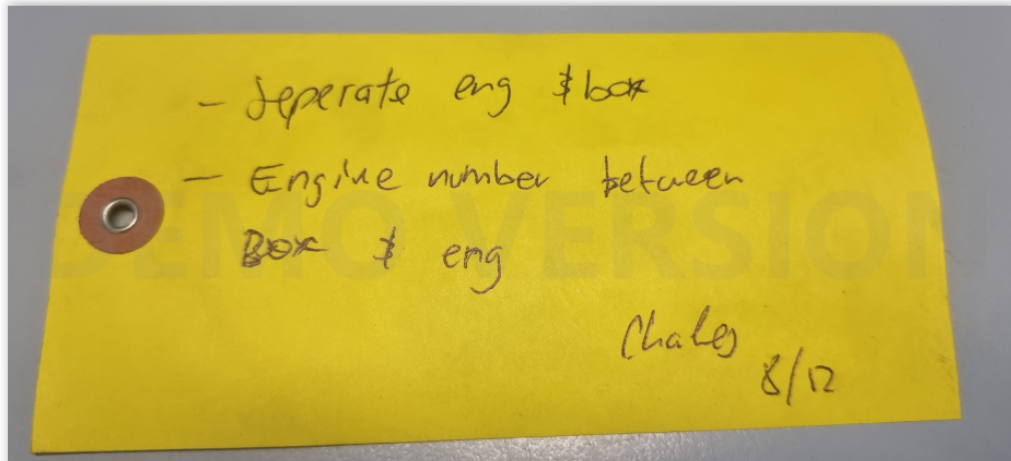
- SPLIT GEARBOX AND TRANSFER CASE
- TAKE IMAGES OF GEARBOX SPLINE
- TAKE IMAGES OF TRANSFER CASE SPLINE
- PUT GEARBOX AND TRANSFER CASE BACK TOGETHER



NOTE - IF SOLD PART AND IS A HIGH RISK GEARBOX TO CHECK FOR SPLINES -
MUST CALL OPERATIONS MANAGER TO CHECK !!!
THIS IS A MUST !!

ENGINE NUMBERS THAT REQUIRE ENGINE & GEARBOX TO BE SEPERATED

-AT TIMES CERTAIN MODELS WILL HAVE THE ENGINE NUMBERS ON THE BLOCK BETWEEN THE GEARBOX AND ENGINE
DISMANTLERS CANNOT GET THIS NUMBER
THEY WILL LEAVE A NOTE ON YELLOW TYVEK TAG

**STEPS -**

Separate the engine and gearbox

Advise dismantler to come and find / note engine number

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GEARBOXES WHERE WE KEEP GEAR STICK LEVER WITH GEARBOX

CABLE TIE THIS TO GEARBOX SO IT DOESN'T GO MISSING

STRAPPING ENGINES

SHOULD BE STRAPPED ONTO SKID WITH 2 STRAPS AND SUMP SHOULD NOT BE HIGHER THAN CYLINDER HEAD SO THAT OIL DOES NOT ENTER CYLINDER



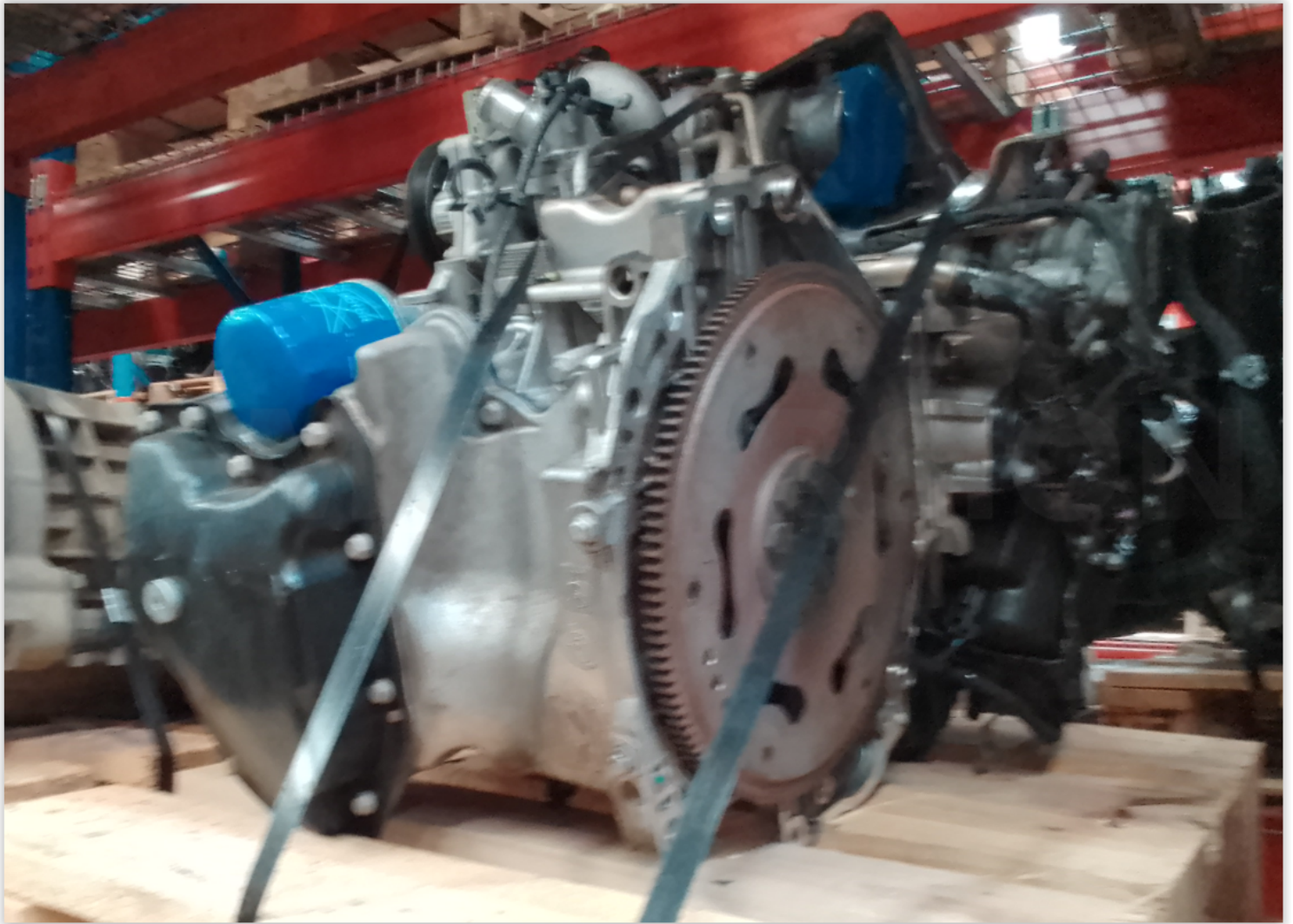
IMAGE BELOW OF INCORRECTLY STRAPPED
DO NOT STRAP ENGINES ON TIMING COVER SIDE



STRAPPING GEARBOXES

GEARBOXES SHOULD BE STRAPPED ONTO SKID WITH 2 STRAPS

SAMPLE OF FWD / AWD WITH XFER



SAMPLE OF RWD / 4WD

-REMOVE GEAR STICKS IF REQUIRED SO TRANS ISN'T ABOVE MAX HEIGHT TO FIT IN RACKING

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SCAN ITEMS TO LOCATION

Using a LIVE SCANNER,

Scan ENGINE / TRANS into locations below

- For scans on MONDAY - we scan to **MECHAWAYM**
- For scans on TUESDAY- we scan to **MECHAWAYT**
- For scans on WEDNESDAY - we scan to **MECHAWAYW**
- For scans on THURSDAY - we scan to **MECHAWAYTH**
- For scans on FRIDAY - we scan to **MECHAWAYF**

[LINK TO TAGS TO SCAN TO FOR ENGINE / TRANS AWAY AREA](#)

THEN Move to **ENGINE / TRANS AWAY AREA** ready to be put away

[LINK TO GUIDE TO SEE WHERE IS ENGINE / TRANS AWAY AREA](#)

WORK AREA

KEEP WORK AREA CLEAN AND TIDY

- ANY OIL SPILLS CLEAN UP
- OIL DRAIN TUB CHECK NOT OVER FLOWING IF FULL DRAIN OIL INTO IBC CONTAINER LOCATED IN DISMANTLERS AREA
- CORE CRATES WHEN FULL, EXCHANGE CRATE WITH EMPTY
- TILT BIN WHEN FULL EMPTY INTO STEEL BIN



ENGINE AND GEARBOX SOLD - this is process for solid separation !!

- All Engines & Gearboxes sold must be checked for damages before sending.
- Accessories left on the engine must also be removed, including;
 - starters, power steering pumps, a/c compressors, cat convertors, excess wiring and hoses
- Red Plugs must also be fitted to all hydraulic or air intake ports so that any foreign objects/contaminants do not enter the engine.
- Heat tags are to be fitted below the intake manifold or any place on the engine block away from the exhaust manifold.

Once all the above have been done, the engine can then be strapped onto a pallet and washed & lacquered.

(Also note the engine number if required).

ENGINE / GEARBOX MISSING TAG

If engine or trans doesn't have attached tag notify your manager, so they can arrange to have tag reprinted

C GRADE / CORE / DAMAGED ENGINE AND GEARBOX GUIDE

IF ENGINE OR GEARBOX IS C GRADE -
Note this on sheet in the LOCATION column

ENGINE AND GEARBOX LOCATION SHEET				
PART TYPE	STOCK NUMBER	TAG NUMBER	MODEL	LOCATION
1 ENGINE/GEARBOX	C12345	611610	CX5	cgrade

And we put this in the C grade crate
This is located next to the separation bench

