



OPERATION MANUAL



DESCRIPTION : AUTOMATIC ATF CHANGER

MODEL : IMPACT-350 AUTO

Designed and Manufactured by IMPACT CORP. Korea

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SPECIFICATION

Description	AUTOMATIC ATF CHANGER
Model No.	IMPACT-350 Auto
Control type	Micon control fully automatic
Electrics	220 volt , 50 / 60 hz
Power pump	Electric motor + trocoid pump
Measurement method	Flow meter scale
Flow rate	Max. 7 liter / min. Normal 3.5 liter / min.
Filter	Located in inside of machine
Total exchange time	Estimate 10-20 min. to complete change Circulation time is controllable, basic 30 second
Connection method	Connecting to the line (no direction)
Storage tank	40 liter x 1 each for waste storage inside 20 liter jar / can use any empty ATF jar
Electric cable	2.0 meter
Adapter	Standard
Size	50 x 56 x 115 cm
Weight	Approximate 52 kg

REMARK : System will run by automatically, if give any shock, machine may damaged because of sensitive flow meter scale.

if not showing precise amount change, need to change Filter which located in inside of machine (Filter is to protect flow meter sensor)

AUTOMATIC ATF CHANGER

The purpose of the Automatic ATF changer !

A vehicle gains higher mileage over time, there is a build up of contaminating substances such as carbon deposit & oil sludge from the various humidity with in



the fluid.

As these particles & sludge get interrupt fluid passing. In this time, starting to combine sludge and particles to change the bigger and bigger oil particles, Then, those combined particles shall be accumulated into the oil cooler, it cause the increase of fluid temperature.

Nowdays, Automatic transmission's engineering is seriously sensitive and furthermore many of the cars are not installed oil level gauge, To meet the car engineering specifications are required to precise measurement of transmission fluid to maintain the system in good working order.

DIRECTION FOR RIGHT LINE CONNECTION

Machine will control right Liquid flow direction automatically and mechanically
Therefore, customer connect any direction



FRONT PANEL

- **FLUID FLOW DISPLAY / 3 glass tube**
1st glass will show waste sample, push top button while circulation, just second
Then waste will come to this tube and store for before + after comparison
2nd glass is for New fluid color
3rd glass is for waste fluid color
- **PRESSURE GAUGE**
Fluid Circulation pressure will show transmission's circulation pressure.
but Each car's circulation pressure are different (from 1 bar upto 5.5 bar)

CONTROL PANEL display



- * **Exchange amount** : Indicate customer's required amount, basically 8 liter
 Can change by ▲ up or ▼ down for required amount, then engine run
- * **New fluid amount** : It show present changed amount for new fluid
- * **Waste amount** : It show the amount which recovery from the transmission
- * **LED display** : Present operation per each step
 Circulation – Waste recovery – New fluid filling + Temp.
 - Temp (°C) will show transmission oil temp. while circulation only

CONTROIL PANEL's program change method (if want)

- **Circulation time change method** : Basically set 30 second for all circulation Process, if want to change to longer time for more mix or circulation, such as 50 second, or less time, such as 20 second, can change by this program
it's process ; During Push **Continue work** button , then main switch ON
 Display shown " 1 CIRCLE TIME " and data 0030
 For set required second, use up and down ▲ ▼ button and Main switch OFF , automatically set memory its required second.

CONNECTING WORK



Internationally normal ATF changing process is CONNECTING WORK. It means that connect machine two line to any of oil cooler line and then connect in and out hose with direction and then ready to operation.

The process is

Switch On and engine start under transmission's "P" position, then transmission fluid will flow from the transmission -> machine -> transmission for the circulation process

Then push START/STOP button, ATF changing process will go further Circulation first -> waste recovery (1.5 liter) -> new fluid filling (1.5), then circulation (about 30 second or any set second) for well mix + dilute, and repeat to meet required amount

When reach to required amount, Sound Buzzer will on and circulation again Then, engine off and machine switch off and connection line disconnect.

Total change work time is about 5-15 minutes, depends on circulation time



CONTINUE WORK



Customer is possible to choice this option, If want to

- Save time , waste recovery and new fluid fill are work at same time
Without circulation process, So, it will be done within a few minutes,
- Japan like this process
- Process are same as above

Switch On -> CONTINUE WORK light on -> Engine start in P position -> START/STOP

Remark : After complete changed fluid, but car is still running and fluid is flow from the Transmission -> machine-> transmission by automatically

Remark : New fluid fill function without line connection

Push Waste discharge -> Push ▲, then new fluid will continue to flow from the Any hose of line , when finish, push START/STOP button



- **Waste discharge process**



For the stored waste discharge from tank
Switch On -> push Waste discharge button -> push START/STOP button
Then outer 2 hose will flow out its waste fluid from the machine's waste tank
In this time, need to connect any coupler to hose end for open and flow.

BASIC PREPARATION

- * Connect 220 volt / 50-60 hz , single phase
- * Insert 20 liter steel can into the new fluid loading pot with suction pipe
- * Discharge all of waste fluid from the tank
- * Proper adapters must be prepared

Caution

- 1) *Transmission fluid change work must be engine run condition under the P lever of auto transmission*
- 2) *Recommend changing fluid amount : Normal car 8 liter, Bad condition , may need more volume, depends on Transmission condition.*

(Need to drive over 30-40 km to provide transmission ECU study time)